ILLINOIS POLLUTION CONTROL BOARD
February 25, 1988

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| IN THE MATTER OF: | ) | |
| | ) | |
| RCRA UPDATE, USEPA REGULATIONS (7-1-87 THROUGH 12-31-87) | ) | R87-39 |

PROPOSAL FOR PUBLIC COMMENT

PROPOSED ORDER OF THE BOARD (by J. Anderson):

Pursuant to Section 22.4(a) of the Environmental Protection Act (Act), the Board is proposing to amend the RCRA regulations.

On December 3, 1987 the Board opened this docket for the purpose of updating the RCRA rules to agree with recent USEPA amendments.

Section 22.4 of the Act governs adoption of regulations establishing the RCRA program in Illinois. Section 22.4(a) provides for quick adoption of regulations which are "identical in substance" to federal regulations; Section 22.4(a) provides that Title VII of the Act and Section 5 of the Administrative Procedure Act shall not apply. Because this rulemaking is not subject to Section 5 of the Administrative Procedure Act, it is not subject to first notice or to second notice review by the Joint Committee on Administrative Rules (JCAR). The federal RCRA regulations are found at 40 CFR 260 through 270, and 280. This rulemaking updates Illinois' RCRA rules to correspond with federal amendments during the period July 1 through December 31, 1987.

The complete text of the proposal is attached to this Order. The Board will publish the proposal in the Illinois Register and accept public comment for 45 days after the date of publication. Because of its length, the text of the proposal will not be published in the Environmental Register, or appear in the Opinion volumes. The Board has adopted a Proposed Opinion supporting this action on this same day.

IT IS SO ORDERED

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, hereby certify that the above Proposed Order was adopted on the 25th day of February, 1988, by a vote of 7-0.

Dorothy M. Gunn

Dorothy M. Gunn, Clerk
Illinois Pollution Control Board

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE G: WASTE DISPOSAL
CHAPTER I: POLLUTION CONTROL BOARD
SUBCHAPTER b: PERMITS

PART 702
RCRA AND UIC PERMIT PROGRAMS

SUBPART A: GENERAL PROVISIONS



SUBPART B: PERMIT APPLICATIONS



SUBPART C: PERMIT CONDITIONS



SUBPART D: ISSUED PERMITS

AUTHORITY: Implementing Section 13 and 22.4 and authorized by Section 27 of the Environmental Protection Act (Ill. Rev. Stat. 1985, ch. 111 1/2, pars. 1013, 1022.4 and 1027).

SOURCE: Adopted in R81-32, 47 PCB 93, at 6 Ill. Reg. 12479, effective as noted in 35 Ill. Adm. Code 700.106; amended in R82-19 at at, 53 PCB 131, 7 Ill. Reg. 14352, effective as noted in 35 Ill. Adm. Code 700.106; amended in R84-9 at 9 Ill. Reg. 11926, effective July 24, 1985; amended in R85-23 at 10 Ill. Reg. 13274, effective July 29, 1986; amended in R86-1 at 10 Ill. Reg. 14083, effective August 12, 1986; amended in R86-28 at 11 Ill. Reg. 6131, effective March 24, 1987; amended in R87-5 at 11 Ill. Reg. 19376, effective November 12, 1987; amended in R87-26 at 12 Ill. Reg. 2579, effective January 15, 1988; amended in R87-39 at 12 Ill. Reg. , effective

SUBPART D: ISSUED PERMITS

Section 702.181 Effect of a Permit

a) The existence of a RCRA or UIC permit shall not constitute a defense to a violation of the Environmental Protection Act or this Subtitle, except for development, modification or operation without a permit. A permit may be modified or revoked during its term for cause as set forth in ~~Sees.~~ Sections 702.183 through 702.186.

b) The issuance of a permit does not convey any property rights of any sort, or any exclusive privilege.

c) The issuance of a permit does not authorize any injury to persons or property or invasion of other private rights, or any infringement of State or local law or regulations, except as noted in ~~paragraph~~ subsection (a).

(Board Note: See 40 CFR ~~122.13~~ 270.4 (1987), as amended at 52 Fed. Reg. 45787, December 1, 1987.)

(Source: Amended at 12 Ill. Reg. , effective )

Section 702.184 Causes for Modification

a) The following are cause for modification, but not reissuance, of permits; the following may be cause for reissuance as well as modification when the permitee requests or agrees:

1) Alterations. There are material and substantial alterations or additions to the permitted facility or activity which occurred

after permit issuance which justify the application of permit conditions that are different or absent in the existing permit.

2) Information. The Agency has received information. Permits other than for UIC Class III wells may be modified during their terms for this cause only if the information was not available at the time of permit issuance (other than revised regulations, guidance or test methods) and would have justified the application of different permit conditions at the time of issuance. For UIC area permits this cause shall include any information indicating that cumulative effects on the environment are unacceptable.

3) New statutory requirements or regulations. The standards or regulations on which the permit was based have been changed by statute, through promulgation of new or amended standards or regulations or by judicial decision after the permit was issued. Permits other than for UIC Class III wells may be modified during their terms for this cause only as follows:

A) ~~For promulgation of amended standards or regulations; when:~~ The Agency may modify the permit when standards or regulations on which the permit was based have been changed by statute or amended standards or regulations.

B) The permittee may request modification when:

i) The permit condition requested to be modified was based on a promulgated 35 Ill. Adm. Code 702, 703 or 720 through ~~726~~-728 (RCRA) or 35 Ill. Adm. Code 730 (UIC) regulation; and

ii) The Board has revised, withdrawn or modified that portion of the regulation on which the permit condition was based; and

iii) ~~If it is the permittee who is requesting modification; the~~ A permittee requests modification in accordance with 35 Ill. Adm. Code 705.128 within ninety (90) days after Illinois Register notice of the rulemaking on which the request is based.

~~B-~~ C) For judicial decisions, a court of competent jurisdiction has remanded and stayed Board promulgated regulations, if the remand and stay concern that portion of the regulations ~~or guidelines~~ on which the permit condition was based or if a request is filed by the permittee in accordance with 35 Ill. Adm. Code 705.128 within ninety (90) days of judicial remand.

4) Compliance schedules. The Agency determines good cause exists for modification of a compliance schedule, such as an act of God, strike, flood or materials shortage or other events over which the permittee has little or no control and for which there

is no reasonably available remedy.

5) For RCRA only, the Agency may modify a permit:

A) When modification of a closure plan is required under 35 Ill. Adm. Code 724.212(b) or 35 Ill. Adm. Code 724.218(b).

B) After the Agency receives the notification of expected closure under 35 Ill. Adm. Code 724.213, when the Agency determines that extension of the 90 or 180 day periods under 35 Ill. Adm. Code 724.213, modification of the 30-year post-closure period under 35 Ill. Adm. Code 724.217(a), continuation of security requirements under 35 Ill. Adm. Code 724.217(b), or permission to disturb the integrity of the containment system under 35 Ill. Adm. Code 724.217(c) are unwarranted.

C) When the permittee has filed a request under 35 Ill. Adm. Code 724.247(c) for a modification to the level of financial responsibility or when the Agency demonstrates under 35 Ill. Adm. Code 724.247(d) that an upward adjustment of the level of financial responsibility is required.

D) When the corrective action program specified in the permit under 35 Ill. Adm. Code 724.200 has not brought the regulated unit into compliance with the ground-water protection standard within a reasonable period of time.

E) To include a detection monitoring program meeting the requirements of 35 Ill. Adm. Code 724.198, when the owner or operator has been conducting a compliance monitoring program under 35 Ill. Adm. Code 724.199 or a corrective action program under 35 Ill. Adm. Code 724.200 and the compliance period ends before the end of the post-closure care period for the unit.

F) When a permit requires a compliance monitoring program under 35 Ill. Adm. Code 724.199, but monitoring data collected prior to permit issuance indicate that the facility is exceeding the ground-water protection standard.

G) To include conditions applicable to units at a facility that were not previously included in the facility's permit.

H) When a land treatment unit is not achieving complete treatment of hazardous constituents under its current permit conditions.

6) For RCRA only, notwithstanding any other provision of this Section, when a permit for a land disposal facility is reviewed under Section 702.161(d), the Agency shall modify the permit as necessary to assure that the facility continues to comply with the currently applicable requirements in this Part and 35 Ill.

Adm. Code 703 and 720 through 726.

b) The following are causes to modify or, alternatively, reissue a permit: The Agency has received notification (as required in the permit, see Section 702.152(c)) of a proposed transfer of the permit. A permit also may be modified to reflect a transfer after the effective date of an automatic transfer (Section 702.182(b)), but will not be revoked and reissued after the effective date of the transfer except upon the request of the new permittee.

(Board Note: See 40 CFR 144.39 (1987) and 270.41 (1987), as amended at 52 Fed. Reg. 45787, December 1, 1987.)

(Source: Amended at 12 Ill. Reg. , effective )

Section 702.187 Minor Modifications

Upon the consent of the permittee, the Agency may modify a permit to make the corrections or allowances for changes in the permitted activity listed in this Section, without following the procedures of 35 Ill. Adm. Code 705. Any permit modification not processed as a minor modification under this Section must be made for cause and with a 35 Ill. Adm. Code 705 draft permit and public notice as required in Sections 702.183 through 702.185. Minor modifications may only:

a) Correct typographical errors;

b) Require more frequent monitoring or reporting by the permittee;

c) Change an interim compliance date in a schedule of compliance, provided the new date is not more than 120 days after the date specified in the existing permit and does not interfere with attainment of the final compliance date requirement; or

d) Allow for a change in ownership or operational control of a facility where the Agency determines that no other change in the permit is necessary, provided:

1) For RCRA only: that a written agreement containing a specific date for transfer of permit responsibility between the current and new permittees has been submitted to the Agency. Changes in the ownership or operational control of a facility may be made only if the owner or operator submits a revised permit application no later than 90 days prior to the scheduled change. When a transfer of ownership or operational control of a facility occurs, the old owner or operator shall comply with the requirements of 35 Ill. Adm. Code 724.Subpart H (financial requirements), until the new owner or operator has demonstrated to the Agency that the new owner or operator is complying with the requirements of that Subpart. The new owner or operator shall demonstrate compliance with the financial assurance requirements within six months after the date of the change in the ownership or operational control of the facility. Upon demonstration to the Agency by the new owner or operator of

compliance with the financial assurance requirements, the Agency shall notify the old owner or operator in writing that the old owner or operator no longer needs to comply with 35 Ill. Adm. Code 724.Subpart H as of the date of the demonstration.

2) For UIC only: that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittees has been submitted to the Agency.

e) For RCRA only:

1) Change the lists of facility emergency coordinators or equipment in the permit's contingency plan; or

2) Minor changes to closure plans.

A) Change estimates of maximum inventory under 35 Ill. Adm. Code 724.212(a)(2);

B) Change estimates of expected year of closure or schedules for final closure under 35 Ill. Adm. Code 724.212(a)(4); or

C) Approve periods longer than 90 days or 180 days under 35 Ill. Adm. Code 724.213(a) and (b).

3) Change the ranges of the operating requirements set in the permit to reflect the results of the trial burn, provided that the change is minor.

4) Change the operating requirements set in the permit for conducting a trial burn, provided that the change is minor.

5) Grant one extension of the time period for determinating operational readiness following completion of construction, for up to 720 hours operating time for treatment of hazardous waste.

6) Change the treatment program requirements for land treatment units under 35 Ill. Adm. Code 724.371 to improve treatment of hazardous constituents, provided that the change is minor.

7) Change any conditions specified in the permit for land treatment units to reflect the results of field tests or laboratory analyses used in making a treatment demonstration in accordance with 35 Ill. Adm. Code 703.230, provided that the change is minor.

8) Allow a second treatment demonstration for land treatment to be conducted when the results of the first demonstration have not shown the conditions under which the waste or wastes can be treated completely as required by 35 Ill. Adm. Code 724.372(a), provided the conditions for the second demonstration are substantially the same as the conditions for the first demonstration.

9) Allow treatment of hazardous wastes not previously specified in the permit if:

A) The hazardous waste has been prohibited from one or more methods of land disposal under 35 Ill. Adm. Code 728.Subpart C~~-; and treatment standards have been established under 35 Ill. Adm. Code 728.Subpart B-~~ or 35 Ill. Adm. Code 728.139;

B) Treatment is in accordance with 35 Ill. Adm. Code 728.104 (if applicable), 35 Ill. Adm. Code 728.103 and,

i) Treatment is in accordance with ~~-the-~~ standards established under 35 Ill. Adm. Code 728.141, ~~-or adjusted standards established under 35 Ill. Adm. Code-~~728.142 or 728.144; or

ii) Where no treatment standards have been established, treatment renders the waste no longer subject to the applicable prohibitions set forth in 35 Ill. Adm. Code 728.132 or 728.139.

C) Handling and treatment of the restricted wastes will not present risks substantially different from those of wastes listed in the permit; and

D) The Agency approves the minor modification. The Agency shall not approve changes to the permit except for the addition of new waste codes and administrative or technical changes necessary to handle new wastes. The Agency shall not approve changes in treatment processes or physical equipment under this subsection.

10) Allow permitted facilities to change their operations to treat or store hazardous wastes subject to land disposal restrictions imposed by 35 Ill. Adm. Code 728 provided such treatment or storage occurs in containers or tanks and the permittee:

A) Requests a major permit modification pursuant to Section 702.183 and 35 Ill. Adm. Code 705.128;

B) Demonstrates in the major permit modification request that the treatment or storage is necessary to comply with the land disposal restrictions of 35 Ill. Adm. Code 728; and

C) Ensure that the treatment or storage units comply with the applicable 35 Ill. Adm. Code 725 and 728 standards pending final administrative disposition of the major modification request. The authorization to make changes conferred in this paragraph shall terminate upon final administrative disposition of the permittee's major modification request under Section 702.183, or revocation of the permit under Section 702.186.

f) For UIC only:

1) Change quantities or types of fluids injected which are within the capacity of the facility as permitted and, in the judgment of the Agency, would not interfere with the operation of the facility or its ability to meet conditions described in the permit and would not change its classification.

2) Change construction requirements approved by the Agency pursuant to 35 Ill. Adm. Code 704.182 (establishing UIC permit conditions), provided that any such alteration shall comply with the requirements of this Part and 35 Ill. Adm. Code 704 and 730.

3) Amend a plugging and abandonment plan which has been updated under 35 Ill. Adm. Code 704.181(e).

(Board Note: See 40 CFR 144.41 and 270.42 ~~(1986), as amended at 51 Fed. Reg. 40636, November 7, 1986).~~ (1987), as amended at 52 Fed. Reg. 25760, July 8, 1987.)

(Source: Amended at 12 Ill. Reg. , effective )

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE G: WASTE DISPOSAL
CHAPTER I: POLLUTION CONTROL BOARD
SUBCHAPTER b: PERMITS

PART 703
RCRA PERMIT PROGRAM

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SUBPART E: SHORT TERM AND PHASED PERMITS



SUBPART F: PERMIT CONDITIONS



AUTHORITY: Implementing Section 22.4 and authorized by Section 27 of the Environmental Protection Act (Ill. Rev. Stat. 1985, ch. 111 1/2, pars. 1022.4 and 1027).

SOURCE: Adopted in R82-19, 53 PCB 131, at 7 Ill. Reg. 14289, effective October 12, 1983; amended in R83-24 at 8 Ill. Reg. 206, effective December 27, 1983; amended in R84-9 at 9 Ill. Reg. 11899, effective July 24, 1985; amended in R85-22 at 10 Ill. Reg. 1110, effective January 2, 1987; amended in R85-23 at 10 Ill. Reg. 13284, effective July 28, 1986; amended in R86-1 at 10 Ill. Reg. 14093, effective August 12, 1986; amended in R86-19 at 10 Ill. Reg. 20702, effective December 2, 1986; amended in R86-28 at 11 Ill. Reg. 6121, effective March 24, 1987; amended in R86-46 at 11 Ill. Reg. 13543, effective August 4, 1987; amended in R87-5 at 11 Ill. Reg. 19383, effective November 12, 1987; amended in R87-26 at 12 Ill. Reg. 2584, effective January 15, 1988; amended in R87-39 at 12 Ill. Reg. , effective

SUBPART B: PROHIBITIONS

Section 703.121 RCRA Permits

a) No person shall conduct any hazardous waste storage, hazardous waste treatment or hazardous waste disposal operation:

1) Without a RCRA permit for the HWM (hazardous waste management) facility; or

2) In violation of any condition imposed by a RCRA permit;

b) Owners and operators of ~~hazardous waste management~~ HWM units must have permits during the active life (including the closure period) of the unit~~;~~ and~~;~~ ~~for any unit which closed after January 26, 1983, during any post-closure care period required under 35 Ill. Adm. Code 724.217 and during any compliance period specified under 35 Ill. Adm. Code 724.196, including any extension of that compliance period under 35 Ill. Adm. Code 724.196(e)~~. Owners and operators of surface impoundments, landfills, land treatment units and waste pile units that received wastes after July 26, 1982, or that certified closure (according to 35 Ill. Adm. Code 725.215) after January 26, 1983, must have post-closure permits, unless they demonstrate closure by removal as provided under Sections 703.159 and 703.160. If a post-closure permit is required, the permit must address applicable 35 Ill. Adm. Code 724 groundwater monitoring, unsaturated zone monitoring, corrective action and post-closure care requirements.

(Board Note: See 40 CFR ~~122.21(d)~~ 270.1(c) (1987), as amended at 52 Fed. Reg. 45787, December 1, 1987.)

(Source: Amended at 12 Ill. Reg. , effective )

SUBPART C: AUTHORIZATION BY RULE AND INTERIM STATUS

Section 703.141 Permits by Rule

Notwithstanding any other provision of this Part or 35 Ill. Adm. Code 705, the following shall be deemed to have a RCRA permit if the conditions listed are met:

a) Ocean disposal barges or vessels. The owner or operator of a barge or other vessel which accepts hazardous waste for ocean disposal, if the owner or operator:

1) Has a permit for ocean dumping issued under 40 CFR 220, ~~(1985) (Ocean Dumping; authorized by the Marine Protection, Research, and Sanctuaries Act, as amended, 33 U.S.C. 1420 et seq.)~~ incorporated by reference in 35 Ill. Adm. Code 720.111. ;

2) Complies with the conditions of that permit; and

3) Complies with the following hazardous waste regulations, incorporated by reference in 35 Ill. Adm. Code 720.111:

A) 40 CFR 264.11~~-(1985)~~-, Identification number;

B) 40 CFR 264.71- ~~(1985)~~-, Use of manifest system;

C) 40 CFR 264.72 -~~(1985)~~-, Manifest discrepancies;

D) 40 CFR 264.73(a) and (b)(1) -~~(1985)~~-, Operating record;

E) 40 CFR 264.75 -~~(1985)~~-, Biennial report; and

F) 40 CFR 264.76 ~~(1985)~~, Unmanifested waste report;

b) Injection wells. The owner or operator of an injection well disposing of hazardous waste, if the owner or operator:

1) Has a permit for underground injection issued under 35 Ill. Adm. Code 704; and

2) Complies with the conditions of that permit and the requirements of 35 Ill. Adm. Code 704.Subpart F (requirements for wells managing hazardous waste); and

3) For UIC permits issued after November 8, 1984~~,~~:

A) Complies ~~complies~~ with 35 Ill. Adm. Code 724.201; and

B) Where the UIC well is the only unit at the facility which requires a RCRA permit, complies with Section 703.187.

c) Publicly owned treatment works (POTW). The owner or operator of a POTW which accepts for treatment hazardous waste, if the owner or operator:

1) Has an NPDES permit;

2) Complies with the conditions of that permit; and

3) Complies with the following regulations:

A) 35 Ill. Adm. Code 724.111, Identification number;

B) 35 Ill. Adm. Code 724.171, Use of manifest system;

C) 35 Ill. Adm. Code 724.172, Manifest discrepencies;

D) 35 Ill. Adm. Code 724.173(a) and (b)(1), Operating record;

E) 35 Ill. Adm. Code 724.175, Annual report;

F) 35 Ill. Adm. Code 724.176, Unmanifested waste report; and

G) For NPDES permits issued after November 8, 1984, 35 Ill. Adm. Code 724.201; and

4) If the waste meets all Federal, State and local pretreatment requirements which would be applicable to the waste if it were being discharged into the POTW through a sewer, pipe or similar conveyance.

Board Note: Illinois pretreatment requirements are in 35 Ill. Adm. Code 307 and 310.)

(Board Note: See 40 CFR 270.60 (1987), as amended at 52 Fed.

Reg. 45787, December 1, 1987.)

(Source: Amended at 12 Ill. Reg. , effective )

Section 703.155 Changes During Interim Status

a) New hazardous wastes not previously identified in Part A of the permit application may be treated, stored or disposed of at a facility if the owner or operator submits a revised Part A permit application prior to such a change;

b) Increases in the design capacity of processes used at a facility may be made if the owner or operator submits a revised Part A permit application prior to such a change (along with a justification explaining the need for the change) and the Agency approves the change because of a lack of available treatment, storage or disposal capacity at other hazardous waste management facilities;

c) Changes in the processes for the treatment, storage or disposal of hazardous waste may be made at a facility or additional processes may be added if the owner or operator submits a revised Part A permit application prior to such a change (along with a justification explaining the need for change) and the Agency approves the change because:

1) It is necessary to prevent a threat to human health or the environment because of an emergency situation; or

2) It is necessary to comply with Federal and State regulations, including 35 Ill. Adm. Code 725;

d) Changes in the ownership or operational control of a facility may be made if the new owner or operator submits a revised Part A permit application no later than 90 days prior to the scheduled change. When a transfer of ownership or operational control of a facility occurs, the old owner or operator shall comply with the requirements of 35 Ill. Adm. Code 725.Subpart H (financial requirements), until the new owner or operator has demonstrated to the Agency that it is complying with the requirements of that Subpart. The new owner or operator shall demonstrate compliance with the financial assurance requirements within six months after the date of the change in the ownership or operational control of the facility. Upon demonstration to the Agency by the new owner or operator of compliance with the financial assurance requirements, the Agency shall notify the old owner or operator in writing that the old owner or operator no longer needs to comply with 35 Ill. Adm. Code 725.Subpart H as of the date of demonstration. All other interim status duties are transferred effective immediately upon the date of the change of ownership or operational control of the facility;

e) In no event shall changes be made to an HWM facility during interim status which amount to reconstruction of the facility. Reconstruction occurs when the capital investment in the changes to the facility exceeds fifty percent of the capital cost of a

comparable entirely new HWM facility. Changes under this Section do not include changes made solely for the purpose of complying with requirements of 35 Ill. Adm. Code 725.293 for tanks and ancillary equipment. Changes prohibited under this Section do not include changes to treat or store in containers or tanks hazardous wastes subject to land disposal restrictions imposed in 35 Ill. Adm. Code 728, provided that such changes are made solely for the purpose of complying with 35 Ill. Adm. Code 728.

(Board Note: See 40 CFR 270.72 ~~-(1986), as amended at 51 Fed. Reg. 25471, July 14, 1986~~-(1987), as amended at 52 Fed. Reg. 45787, December 1, 1987.)

(Source: Amended at 12 Ill. Reg. , effective )

Section 703.159 Closure by Removal

Owners and operators of surface impoundments, land treatment units and waste piles closing by removal or decontamination under 35 Ill. Adm. Code 725 standards must obtain a post-closure permit unless they demonstrate to the Agency that the closure met the standards for closure by removal or decontamination in 35 Ill. Adm. Code 724.328, 724.380(e) or 724.358, respectively. The demonstration may be made in the following ways:

a) If the owner or operator has submitted a Part B application for a post-closure permit, the owner or operator may request a determination, based on information contained in the application, that 35 Ill. Adm. Code 724 closure by removal standards are met. If the Agency makes a tentative decision that the 35 Ill. Adm. Code 724 standards are met, the Agency will notify the public of this proposed decision, allow for public comment and reach a final determination according to the procedures in Section 703.160.

b) If the owner or operator has not submitted a Part B application for a post-closure permit, the owner or operator may petition the Agency for a determination that a post-closure permit is not required because the closure met the applicable 35 Ill. Adm. Code 724 standards.

1) The petition must include data demonstrating that closure by removal or decontamination standards were met.

2) The Agency shall approve or deny the petition according to the procedures outlined in Section 703.160.

(Board Note: See 40 CFR 270.1(c)(5), as adopted at 52 Fed. Reg. 45787, December 1, 1987.)

(Source: Added at 12 Ill. Reg. , effective )

Section 703.160 Procedures for Closure Determination

a) If a facility owner or operator seeks an equivalency determination under Section 703.159, the Agency shall provide the public, through a

newspaper notice, the opportunity to submit written comments on the information submitted by the owner or operator within 30 days from the date of the notice. The Agency shall also, in response to a request or at its own discretion, hold a public hearing whenever such a hearing might clarify one or more issues concerning the equivalence of the 35 Ill. Adm. Code 725 closure to a 35 Ill. Adm. Code 724 closure. The Agency shall give public notice of the hearing at least 30 days before it occurs. (Public notice of the hearing may be given at the same time as notice of the opportunity for the public to submit written comments, and the two notices may be combined.)

b) The Agency shall determine whether the 35 Ill. Adm. Code 725 closure met the 35 Ill. Adm. Code 724 closure by removal or decontamination requirements within 90 days after receipt of the request or petition. If the Agency finds that the closure did not meet the applicable 35 Ill. Adm. Code 724 standards, it shall provide the owner or operator with a written statement of the reasons why the closure failed to meet 35 Ill. Adm. Code 724 standards. The owner or operator may submit additional information in support of an equivalency demonstration within 30 days after receiving such written statement. The Agency shall review any additional information submitted and make a final determination within 60 days.

c) If the Agency determines that the facility did not close in accordance with 35 Ill. Adm. Code 724 closure by removal standards, the facility is subject to post-closure permitting requirements.

d) The owner or operator may appeal the Agency's final determination to the Board pursuant to 35 Ill. Adm. Code 702.107.

(Board Note: See 40 CFR 270.1(c)(6), as adopted at 52 Fed. Reg. 45787, December 1, 1987.)

(Source: Added at 12 Ill. Reg. , effective )

SUBPART D: APPLICATIONS

Section 703.185 Groundwater Protection Information

The following additional information regarding protection of groundwater is required from owners or operators of hazardous waste ~~surface impoundments, piles, land treatment units and landfills~~ facilities containing a regulated unit, except as ~~otherwise~~ provided in 35 Ill. Adm. Code 724.190(b).

a) A summary of the groundwater monitoring data obtained during the interim status period under 35 Ill. Adm. Code 725.190 through 725.194, where applicable;

b) Identification of the uppermost aquifer and aquifers hydraulically interconnected beneath the facility property, including groundwater flow direction and rate, and the basis for such identification (i.e., the information obtained from hydrogeologic investigations of the facility area);

c) On the topographic map required under Section 703.183(s), a delineation of the waste management area, the property boundary, the proposed "point of compliance" as defined under 35 Ill. Adm. Code 724.195, the proposed location of groundwater monitoring wells as required under 35 Ill. Adm. Code 724.197 and, to the extent possible, the information required in ~~paragraph~~ subsection (b);

d) A description of any plume of contamination that has entered the groundwater from a regulated unit at the time that the application is submitted that:

1) Delineates the extent of the plume on the topographic map required under Section 703.183(s);

2) Identifies the concentration of each 35 Ill. Adm. Code ~~721 Appendix~~ H-724.Appendix I constituent throughout the plume or identifies the maximum concentrations of each 35 Ill. Adm. Code ~~721 Appendix~~ H-724.Appendix I constituent in the plume;

e) Detailed plans and an engineering report describing the proposed groundwater monitoring program to be implemented to meet the requirements of 35 Ill. Adm. Code 724.197;

f) If the presence of hazardous constituents has not been detected in the groundwater at the time of permit application, the owner or operator shall submit sufficient information, supporting data and analyses to establish a detection monitoring program which meets the requirements of 35 Ill. Adm. Code 724.198. This submission must address the following items as specified under that Section.

1) A proposed list of indicator parameters, waste constituents or reaction products that can provide a reliable indication of the presence of hazardous constituents in the groundwater;

2) A proposed groundwater monitoring system;

3) Background values for each proposed monitoring parameter or constituent, or procedures to calculate such values; and

4) A description of proposed sampling, analysis and statistical comparison procedures to be utilized in evaluating groundwater monitoring data;

g) If the presence of hazardous constituents has been detected in the groundwater at the point of compliance at the time of permit application, the owner or operator shall submit sufficient information, supporting data and analyses to establish a compliance monitoring program which meets the requirements of 35 Ill. Adm. Code 724.199. Except as provided in 35 Ill. Adm. Code 724.198(h)(5), the owner or operator shall also submit an engineering feasibility plan for a corrective action program necessary to meet the requirements of 35 Ill. Adm Code 724.200, unless the owner or operator obtains written authorization in advance from the Agency to submit a proposed permit schedule for submittal of such a plan. To demonstrate

compliance with 35 Ill. Adm. Code 724.199, the owner or operator shall address the following items:

1) A description of the wastes previously handled at the facility;

2) A characterization of the contaminated groundwater, including concentrations of hazardous constituents;

3) A list of hazardous constituents for which compliance monitoring will be undertaken in accordance with 35 Ill. Adm. Code 724.197 and 724.199;

4) Proposed concentration limits for each hazardous constituent, based on the criteria set forth in 35 Ill. Adm. Code 724.194(a), including a justification for establishing any alternate concentration limits;

5) Detailed plans and an engineering report describing the proposed groundwater monitoring system, in accordance with the requirements of 35 Ill. Adm. Code 724.197; and

6) A description of proposed sampling, analysis and statistical comparison procedures to be utilized in evaluating groundwater monitoring data;

h) If hazardous constituents have been measured in the groundwater which exceed the concentration limits established under 35 Ill. Adm. Code 724.194, Table 1, or if groundwater monitoring conducted at the time of permit application under 35 Ill. Adm. Code 725.190 through 725.194 at the waste boundary indicates the presence of hazardous constituents from the facility in groundwater over background concentrations, the owner or operator shall submit sufficient information, supporting data, and analyses to establish a corrective action program which meets the requirements of 35 Ill. Adm. Code 724.200. However, an owner or operator is not required to submit information to establish a corrective action program if it demonstrates to the Agency that alternate concentration limits will protect human health and the environment after considering the criteria listed in 35 Ill. Adm. Code 724.194(b). An owner or operator who is not required to establish a corrective action program for this reason shall instead submit sufficient information to establish a compliance monitoring program which meets the requirements of ~~-paragraph-~~subsection (f) and 35 Ill. Adm. Code 724.199. To demonstrate compliance with 35 Ill. Adm. Code 724.200, the owner or operator shall address, at a minimum, the following items:

1) A characterization of the contaminated groundwater, including concentrations of hazardous constituents;

2) The concentration limit for each hazardous constituent found in the groundwater as set forth in 35 Ill. Adm. Code 724.194;

3) Detailed plans and an engineering report describing the

corrective action to be taken; and

4) A description of how the groundwater monitoring program will assess the adequacy of the corrective action.

5) The permit may contain a schedule for submittal of the information required in subsections (h)(3) and (h)(4) provided the owner or operator obtains written authorization from the Agency prior to submittal of the complete permit application.

(Board Note: See 40 CFR 270.14(c) (1987), as amended at 52 Fed. Reg. 25942, July 9, 1987, 52 Fed. Reg. 33936, September 9, 1987 and 52 Fed. Reg. 45787, December 1, 1987.)

(Source: Amended at 12 Ill. Reg. , effective )

Section 703.187 Solid Waste Management Units

a) The following information is required for each solid waste management unit at a facility seeking a permit:

1) The location of the unit on the topographic map required under Section 703.183(s).

2) Designation of the type of unit.

3) General dimensions and structural description (supply any available drawings).

4) When the unit was operated.

5) Specification of all wastes that have been managed at the unit, to the extent available.

b) The owner or opeator of any facility containing one or more solid waste management units must submit all available information pertaining to any release of hazardous wastes or hazardous constitutents from such unit or units.

c) The owner or operator must conduct and provide the results of sampling and analysis of groundwater, landsurface and subsurface strata, surface water or air, which may include the installation of wells, where the Agency determines it is necessary to complete a RCRA facility assessment that will determine if a more complete investigation is necessary.

(Board Note: See 40 CFR 270.14(d) (1987), as adopted at 52 Fed. Reg. 45787, December 1, 1987.)

(Source: Added at 12 Ill. Reg. , effective )

Section 703.188 Other Information

The Agency may require a permittee or applicant to submit information in order

to establish permit conditions under Section 703.241(a)(2) (conditions necessary to protect human health and the environment) and 35 Ill. Adm. Code 702.161 (duration of permits).

(Board Note: See 40 CFR 270.10(k) (1987), as adopted at 52 Fed. Reg. 45787, December 1, 1987.)

(Source: Added at 12 Ill. Reg. , effective )

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE G: WASTE DISPOSAL
CHAPTER I: POLLUTION CONTROL BOARD
SUBCHAPTER c: HAZARDOUS WASTE OPERATING REQUIREMENTS

PART 720
HAZARDOUS WASTE MANAGEMENT SYSTEM: GENERAL

SUBPART A: GENERAL PROVISIONS

Section
720.101 Purpose, Scope and Applicability
720.102 Availability of Information; Confidentiality of Information
720.103 Use of Number and Gender

SUBPART B: DEFINITIONS

Section
720.110 Definitions
720.111 References

SUBPART C: RULEMAKING PETITIONS AND OTHER PROCEDURES

Section
720.120 Rulemaking
720.121 Alternative Equivalent Testing Methods
720.122 Waste Delisting
720.130 Procedures for Solid Waste Determinations
720.131 Solid Waste Determinations
720.132 Boiler Determinations
720.133 Procedures for Determinations
720.140 Additional regulation of certain hazardous waste Recycling Activities on a case-by-case Basis
720.141 Procedures for case-by-case regulation of hazardous waste Recycling Activities

Appendix A Overview of 40 CFR, Subtitle C Regulations

AUTHORITY: Implementing Section 22.4 and authorized by Section 27 of the Environmental Protection Act (Ill. Rev. Stat. 1985, ch. 111 1/2, pars. 1022.4 and 1027).

SOURCE: Adopted in R81-22, 43 PCB 427, at 5 Ill. Reg. 9781, effective as noted in 35 Ill. Adm. Code 700.106; amended and codified in R81-22, 45 PCB 317, at 6 Ill. Reg. 4828, effective as noted in 35 Ill. Adm. Code 700.106; amended in R82-19 at 7 Ill. Reg. 14015, effective Oct. 12, 1983; amended in R84-9, 53 PCB 131 at 9 Ill. Reg. 11819, effective July 24, 1985; amended in R85-22 at 10 Ill. Reg. 968, effective January 2, 1986; amended in R86-1 at 10 Ill. Reg. 13998, effective August 12, 1986; amended in R86-19 at 10 Ill. Reg. 20630, effective December 2, 1986; amended in R86-28 at 11 Ill. Reg. 6017, effective March 24, 1987; amended in R86-46 at 11 Ill. Reg. 13435, effective August 4, 1987; amended in R87-5 at 11 Ill. Reg. 19280, effective November 12, 1987; amended in R87-26 at 12 Ill. Reg. 2450, effective January 15, 1988 amended in R87-39 at 12 Ill. Reg. , effective .

Section 720.111 References

a) ~~When used in 35 Ill. Adm. Code 720 through 725, the~~The following publications are incorporated by reference:

ANSI. Available from the American National Standards Institute, 1430 Broadway, New York, New York 10018, (212) 354-3300:

"Petroleum Refinery Piping," ANSI B31.3 -- 1976, with addendum B31.3(d) -- 1980.

"Liquid Petroleum Transportation Piping Systems," ANSI B31.4 -- 1974, with addendum B31.4(b) -- 1981.

API. Available from the American Petroleum Institute, 1220 L Street, N.W., Washington, D.C. 20005, (202) 682-8000:

"Guide for Inspection of Refinery Equipment, Chapter XIII, Atmospheric and Low Pressure Storage Tanks," 4th Edition, 1981.

"Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems," API Publication 1632, 1983.

"Installation of Underground Petroleum Storage Systems," API Publication 1615 (November 1979).

ASTM. Available from American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103, (215) 299-5400:

"ASTM Standard Test Methods for Flash Point of Liquids by Setaflash Closed Tester," ASTM Standard D-3278-78.

"ASTM Standard Test Methods for Flash Point Pensky-Martens Closed Tester," ASTM Standard D-D-93-79 or D-93-80.

GPO. Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20401, (202) 783-3238:

Standard Industrial Classification Manual (1972), and 1977 Supplement, republished in 1983

NACE. Available from the National Association of Corrosion Engineers, 1400 South Creek Dr., Houston, TX 77084, (713) 492-0535:

"Recommended Practice (RP-02-85) Control of External Corrosion on Metallic Buried, Partially Buried, or Submerged Liquid Storage Systems."

NFPA. Available from the National Fire Protection Association, Batterymarch Park, Boston, MA 02269, (617) 770-3000:

"Flammable and Combustible Liquids Code" (1977 or 1981).

NTIS. Available from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161, (703) 487-4600:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication number SW-846 (Second Edition, 1982 as amended by Update I (April, 1984) and Update II (April, 1985)) (Document number PB 87-120-291)

STI. Available from the Steel Tank Institute, 728 Anthony Trail, Northbrook, IL 60062, (312) 498-1980:

"Standard for Dual Wall Underground Steel Storage Tanks" (1986).

b) Code of Federal Regulations. Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20401, (202) 783-3238:

40 CFR 220 (1987)

40 CFR 264 (1987)

40 CFR 761 (1987)

c) Federal Statutes

Section 3004 of the Resource Conservation and Recovery Act (42 U.S.C. 6901 et seq., as amended through December 31, 1987.

d) This Section incorporates no later editions or amendments.

(Source: Amended at 12 Ill. Reg. , effective )

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE G: WASTE DISPOSAL
CHAPTER I: POLLUTION CONTROL BOARD
SUBCHAPTER c: HAZARDOUS WASTE OPERATING REQUIREMENTS

PART 721
IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

SUBPART A: GENERAL PROVISIONS



SUPBART B: CRITERIA FOR IDENTIFYING THE CHARACTERISTICS OF HAZARDOUS WASTE AND FOR LISTING HAZARDOUS WASTES



SUBPART C: CHARACTERISTICS OF HAZARDOUS WASTE



SUBPART D: LISTS OF HAZARDOUS WASTE

| | |
|---|---|
| | Thereof |
| Appendix J | Method of Analysis for Chlorinated Dibenzo-p-Dioxins and Dibenzofurans |
| Appendix Z | Table to Section 721.102 |

AUTHORITY: Implementing Section 22.4 and authorized by Section 27 of the Environmental Protection Act (Ill. Rev. Stat. 1985, ch. 111 1/2, pars. 1022.4 and 1027).

SOURCE: Adopted in R81-22, 43 PCB 427, at 5 Ill. Reg. 9781, effective as noted in 35 Ill. Adm. Code 700.106; amended and codified in R81-22, 45 PCB 317, at 6 Ill. Reg. 4828, effective as noted in 35 Ill. Adm. Code 700.106; amended in R82-18, 51 PCB 31, at 7 Ill. Reg. 2518, effective February 22, 1983; amended in R82-19, 53 PCB 131, at 7 Ill. Reg. 13999, effective October 12, 1983; amended in R84-34, 61 PCB 247, at 8 Ill. Reg. 24562, effective December 11, 1984; amended in R84-9, at 9 Ill. Reg. 11834, effective July 24, 1985; amended in R85-22 at 10 Ill. Reg. 998, effective January 2, 1986; amended in R85-2 at 10 Ill. Reg. 8112, effective May 2, 1986; amended in R86-1 at 10 Ill. Reg. 14002, effective August 12, 1986; amended in R86-19 at 10 Ill. Reg. 20647, effective December 2, 1986; amended in R86-28 at 11 Ill. Reg. 6035, effective March 24, 1987; amended in R86-46 at 11 Ill. Reg. 13466, effective August 4, 1987; amended in R87-32 at 11 Ill. Reg. 16698, effective September 30, 1987; amended in R87-5 at 11 Ill. Reg. 19303, effective November 12, 1987; amended in R87-26 at 12 Ill. Reg. 2456, effective January 15, 1988 amended in R87-39 at 12 Ill. Reg. , effective

## SUBPART D: LISTS OF HAZARDOUS WASTE

### Section 721.133 Discarded Commercial Chemical Products, Off-Specification Species, Container Residues and Spill Residues Thereof.

The following materials or items are hazardous wastes if and when they are discarded or intended to be discarded as described in Section 721.102(a)(2)(A), when they are mixed with waste oil or used oil or other material and applied to the land for dust suppression or road treatment, when they are otherwise applied to the land in lieu of their original intended use or when they are contained in products that are applied to land in lieu of their original intended use, or when, in lieu of their original intended use, they are produced for use as (or as a component of) a fuel, distributed for use as a fuel, or burned as a fuel.

a) Any commercial chemical product, or manufacturing chemical intermediate having the generic name listed in subsections (e) or (f).

b) Any off-specification commercial chemical product or manufacturing chemical intermediate which, if it met specifications, would have the generic name listed in subsections (e) or (f).

c) ~~Any container or inner liner removed from a container that has been used to hold any commercial chemical product or manufacturing chemical intermediate having the generic names listed in subsection~~

~~(e);~~ ~~or any container or inner liner removed from a container that has been used to hold any off-specification chemical product and manufacturing chemical intermediate which, if it met specifications, would have the generic name listed in subsection (e) unless:~~

~~1) The container or inner liner has been triple rinsed using a solvent capable of removing the commercial chemical product or manufacturing chemical intermediate;~~

~~2) The container or inner liner has been cleansed by another method that has been shown in the scientific literature, or by tests conducted by the generator, to achieve equivalent removal; or~~

~~3) In the case of a container, the inner liner that prevented contact of the commercial chemical product or manufacturing chemical intermediate with the container, has been removed.~~

Any residue remaining in a container or inner liner removed from a container that has held any commercial chemical product or manufacturing chemical intermediate having the generic name listed in subsection (e), unless the container is empty as defined in Section 721.107(b)(3).

(Board Note: Unless the residue is being beneficially used or reused, or legitimately recycled or reclaimed, or being accumulated, stored, transported or treated prior to such use, reuse, recycling or reclamation, the Board considers the residue to be intended for discard, and thus a hazardous waste. An example of a legitimate reuse of the residue would be where the residue remains in the container and the container is used to hold the same commercial chemical product or manufacturing chemical intermediate it previously held. An example of the discard of the residue would be where the drum is sent to a drum reconditioner who reconditions the drum but discards the residue.)

d) Any residue or contaminated soil, water or other debris resulting from the cleanup of a spill, into or on any land or water of any commercial chemical product or manufacturing chemical intermediate having the generic name listed in subsection (e) or (f), or any residue or contaminated soil, water or other debris resulting from the cleanup of a spill, into or on any land or water, of any off-specification chemical product or manufacturing chemical intermediate which, if it met specifications, would have the generic name listed in subsection (e) or (f).

(Board Note: The phrase "commercial chemical product or manufacturing chemical intermediate having the generic name listed in ..." refers to a chemical substance which is manufactured or formulated for commercial or manufacturing use which consists of the commercially pure grade of the chemical, any technical grades of the chemical that are produced or marketed, and all formulations in which the chemical is the sole active ingredient. It does not refer to a material, such as a manufacturing process waste, that contains any of the substances listed in subsections (e) or (f). Where a

manufacturing process waste is deemed to be a hazardous waste because it contains a substance listed in subsections (e) or (f), such waste will be listed in either Sections 721.131 or 721.132 or will be identified as a hazardous waste by the characteristics set forth in Subpart.)

e) The commercial chemical products, manufacturing chemical intermediates or off-specification commercial chemical products or manufacturing chemical intermediates referred to in subsections (a) through (d) of this Section, are identified as acute hazardous waste (H) and are subject to the small quantity exclusion defined in Section 721.105(e). These wastes and their corresponding EPA Hazardous Waste Numbers are:

(Board Note: For the convenience of the regulated community the primary hazardous properties of these materials have been indicated by the letters T (Toxicity), and R (Reactivity). Absence of a letter indicates that the compound only is listed for acute toxicity.)

| Hazardous Waste No. | Chemical Abstracts No. | Substance |
|---|---|---|
| P023 | 107-20-0 | Acetaldehyde, chloro- |
| P002 | 591-08-2 | Acetamide, N-(aminothioxomethyl)- |
| P057 | 640-19-7 | Acetamide, 2-fluoro- |
| P058 | 62-74-8 | Acetic acid, fluoro-, sodium salt |
| P066 | 16572-77-5 | Acetimedic acid, N-[(methylcarbamoyl)oxy]thio-, methyl ester |
| ~~-P001~~ | | ~~3-(alpha-acetonylbenzyl)-4-hydroxycoumarin and salts, when present at concentrations greater than 0.3%-~~ |
| P002 | 591-08-2 | 1-Acetyl-2-thiourea |
| P003 | 107-02-8 | Acrolein |
| P070 | 116-06-3 | Aldicarb |
| P004 | 309-00-2 | Aldrin |
| P005 | 107-18-6 | Allyl alcohol |
| P006 | 20859-73-8 | Aluminum phosphide (R,T) |
| P007 | 2763-96-4 | 5-(Aminomethyl)-3-isoxazolol |
| P008 | 504-24-5 | 4-Aminopyridine |
| P009 | 131-74-8 | Ammonium picrate (R) |
| P119 | 7803-55-6 | Ammonium vanadate |
| P010 | 7778-39-4 | Arsenic acid |
| P012 | 1327-53-3 | Arsenic (III) oxide |
| P011 | 1303-28-2 | Arsenic (V) oxide |
| P011 | 1303-28-2 | Arsenic pentoxide |
| P012 | 1327-53-3 | Arsenic trioxide |
| P038 | 692-42-3 | Arsine, diethyl- |
| P036 | 696-28-6 | Arsonous dichloride, phenyl- |
| P054 | 151-56-4 | Aziridine |
| P013 | 542-62-1 | Barium cyanide |
| P024 | 106-47-8 | Benzenamine, 4-chloro- |
| P077 | 100-01-6 | Benzenamine, 4-nitro- |

| | | |
|---|---|---|
| P028 | 100-44-7 | Benzene, (chloromethyl)- |
| P042 | 51-43-4 | 1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino)ethyl]- |
| P046 | 122-09-8 | Benzeneethanamine, alpha, alpha-dimethyl- |
| P014 | 108-98-5 | Benzenethiol |
| P001 | P 81-81-2 | 2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)-, and salts |
| P028 | 100-44-7 | Benzyl chloride |
| P015 | 7440-41-7 | Beryllium dust |
| P016 | 542-88-1 | Bis(chloromethyl) ether |
| P017 | 596-31-2 | Bromoacetone |
| P018 | 357-57-3 | Brucine |
| P021 | 592-01-8 | Calcium cyanide |
| - P123 | | ~~Camphene, octachloro-~~ |
| P103 | | ~~Carbamodoselenoic acid-~~ |
| P022 | 75-15-0 | Carbon bisulfide |
| P022 | 75-15-0 | Carbon disulfide |
| P095 | 75-44-5 | ~~-Carbonyl chloride-~~Carbonic dichloride |
| - P033 | | ~~Chlorine cyanide-~~ |
| P023 | 107-20-0 | Chloroacetaldehyde |
| P024 | 106-47-8 | p-Chloroaniline |
| - P026 | | ~~1-(o-Chlorophenyl)thiourea~~ |
| P027 | | ~~3-Chloropropionitrile-~~ |
| P029 | 544-92-3 | Copper cyanide-s- |
| P030 | | Cyanides (soluble cyanide salts), not ~~-elsewhere-~~ otherwise specified |
| P031 | 460-19-5 | Cyanogen |
| P033 | 506-77-4 | Cyanogen chloride |
| P034 | 131-89-5 | 2-Cyclohexyl-4,6-dinitrophenol |
| P036 | 696-28-6 | Dichlorophenylarsine |
| P037 | 60-57-1 | Dieldrin |
| P038 | 692-42-2 | Diethylarsine |
| - P039 | | ~~O,O-Diethyl S-[2-(ethylthio)ethyl] phosphorodithioate-~~ |
| P041 | 311-45-5 | Diethyl-p-nitrophenyl phosphate |
| P040 | 297-97-2 | O,O-Diethyl O-pyrazinyl phosphorothioate |
| P043 | 55-91-4 | Diisopropyl fluorophosphate (DFP) |
| P004 | 309-00-2 | 1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1-alpha, 4-alpha, 4a-beta, 5-alpha, 8-alpha, 8a-beta)- |
| P060 | 465-73-6 | 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1-alpha, 4-alpha, 4a-beta, 5-beta, 8-beta, 8a-beta)- |
| P037 | 60-57-1 | 2,7:3,6-Dimethanonaphth[2,3-b]oxirane, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1a-alpha, 2-beta, 2a-alpha, 3-beta, 6-beta, 6a-alpha, 7-beta, 7a-alpha)- |
| P051 | 72-20-8 | 2,7:3,6-Dimethanonaphth[2,3-b]oxirane, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1a-alpha, 2-beta, 2a-beta, 3-alpha, 6-alpha, 6a-beta, 7-beta, 7a-alpha)- |
| P044 | 60-51-5 | Dimethoate |
| P045 | 39196-18-4 | 3,3-Dimethyl-1-(methylthio)-2-butanone, O-[(methylamino) carbonyl] oxime |
| - P071 | | ~~O,O-Dimethyl O-p-nitrophenyl phosphorothioate~~ |

| | | |
|---|---|---|
| ~~P082~~ | | ~~Dimethylnitrosamine-~~ |
| P046 | 122-09-8 | alpha, alpha-Dimethylphenethylamine |
| P047 | P 534-52-1 | 4,6-Dinitro-o-cresol and salts |
| - ~~P034~~ | | ~~4,6-Dinitro-o-cyclohexylphenol-~~ |
| P048 | 51-28-5 | 2,4-Dinitrophenol |
| P020 | 88-85-7 | Dinoseb |
| P085 | 152-16-9 | Diphosphoramide, octamethyl- |
| P039 | 298-04-4 | Disulfoton |
| P049 | 541-53-7 | 2,4-Dithiobiuret |
| - ~~P109~~ | | ~~Dithiopyrophosphoric acid, tetraethyl ester-~~ |
| P050 | 115-29-7 | Endosulfan |
| P088 | 145-73-3 | ~~-Endothall-~~Endothal |
| P051 | 72-20-8 | Endrin |
| P042 | 51-43-4 | Epinephrine |
| - ~~P046~~ | | ~~Ethanamine, 1,1-dimethyl-2-phenyl-~~ |
| ~~P084~~ | | ~~Ethenamine, N-methyl-N-nitroso--~~ |
| P101 | 107-12-0 | Ethyl cyanide |
| P054 | 151-56-4 | Ethylenimine |
| P097 | 52-85-7 | Famphur |
| P056 | 7782-41-4 | Fluorine |
| P057 | 640-19-7 | Fluoroacetamide |
| P058 | 62-74-8 | Fluoroacetic acid, sodium salt |
| P065 | 628-86-4 | Fulminic acid, mercury (II) salt (R,T) |
| P059 | 76-44-8 | Heptachlor |
| - ~~P051~~ | | ~~1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo, endo-1, 4:5, 8-dimethanonaphthalene~~ |
| ~~P037~~ | | ~~1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo, exo-1, 4:5, 8-dimethanonaphthalene~~ |
| ~~P060~~ | | ~~1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-endo, endo-dimethanonaphthalene~~ |
| ~~P004~~ | | ~~1,2,3,4,10,10,-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-endo, exo-dimethanonaphthalene~~ |
| ~~P060~~ | | ~~Hexachlorohexahydro-exo, exo-dimethanonaphthalene-~~ |
| P062 | 757-58-4 | Hexaethyl tetraphosphate |
| P116 | 79-19-6 | Hydrazinecarbothioamide |
| P068 | 60-34-4 | Hydrazine, methyl- |
| P063 | 74-90-8 | Hydrocyanic acid |
| P063 | 74-90-8 | Hydrogen cyanide |
| P096 | 7803-51-2 | Hydrogen phosphide |
| P064 | 624-83-9 | Isocyanic acid, methyl ester |
| P060 | 465-73-6 | Isodrin |
| P007 | 2763-96-4 | 3(2H)-Isoxazolone, 5-(aminomethyl)- |
| P092 | 62-38-4 | Mercury, ~~-phenyl-, acetate-~~ (acetato-O)phenyl- |
| P065 | 628-86-4 | Mercury fulminate (R,T) |
| P082 | 62-75-9 | Methamine, N-methyl-N-nitroso- |
| P016 | 542-88-1 | Methane, oxybis(chloro- |
| P112 | 509-14-8 | Methane, tetranitro- (R) |
| P118 | 75-70-7 | Methanethiol, trichloro- |
| P050 | 115-29-7 | 6,9-Methano-2,4,3-benzodioxathiepen, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide |
| P059 | 76-44-8 | 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- |
| P066 | 16752-77-5 | Methomyl |
| P067 | 75-55-8 | 2-Methylaziridine |

| | | |
|---|---|---|
| P068 | 60-34-4 | Methyl hydrazine |
| P064 | 624-83-9 | Methyl isocyanate |
| P069 | 75-88-5 | 2-Methyllactonitrile |
| P071 | 298-00-0 | Methyl parathion |
| P072 | 86-88-4 | alpha-Naphthylthiourea |
| P073 | 13463-39-3 | Nickel carbonyl |
| - P074 | | ~~Nickel cyanide~~ |
| P074 | | ~~Nickel (II) cyanide-~~ |
| P073 | 13463-39-3 | Nickel ~~-tetracarbonyl-~~ carbonyl, (T-4)- |
| P075 | P 54-11-5 | Nicotine and salts |
| P076 | 10102-43-9 | Nitric oxide |
| P077 | 100-01-6 | p-Nitroaniline |
| P078 | 10102-44-0 | Nitrogen dioxide |
| P076 | 10102-43-9 | Nitrogen (II) oxide (NO) |
| P078 | 10102-44-0 | Nitrogen (IV) oxide ($NO_2$) |
| P081 | 55-63-0 | Nitroglycerine (R) |
| P082 | 62-75-9 | N-Nitrosodimethylamine |
| P084 | 4549-40-0 | N-Nitrosomethylvinylamine |
| - P050 | | ~~5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro, cyclic sulfite-~~ |
| P085 | 152-16-9 | Octamethylpyrophosphoramide |
| P087 | 20816-12-0 | Osmium oxide |
| P087 | 20816-12-0 | Osmium tetroxide |
| P088 | 145-73-3 | 7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid |
| P089 | 56-38-2 | Parathion |
| P034 | 131-89-5 | Phenol, 2-cyclohexyl-4,6-dinitro- |
| P048 | 51-28-5 | Phenol, 2,4-dinitro- |
| P047 | P 534-52-1 | ~~-Phenol, 2,4,-dinitro-6-methyl--~~Phenol, 2-methyl-4,6-dinitro-, and salts |
| P020 | 88-85-7 | Phenol, ~~-2,4-dinitro-6-(1-methylpropyl)--~~ 2-(1-methylpropyl)-4,6-dinitro- |
| P009 | 131-74-8 | Phenol, 2,4,6-trinitro-, ammonium salt (R) |
| - P036 | | ~~Phenyl dichloroarsine-~~ |
| P092 | 62-38-4 | ~~-Phenylmercuric-~~Phenylmercury acetate |
| P093 | 103-85-5 | ~~-N--~~Phenylthiourea |
| P094 | 298-02-2 | Phorate |
| P095 | 75-44-5 | Phosgene |
| P096 | 7803-51-2 | Phosphine |
| P041 | 311-45-5 | Phosphoric acid, diethyl ~~-p--~~4-nitrophenyl ester |
| P039 | 298-04-4 | Phosphorodithioic acid, o,0-diethyl S-[2-(ethylthio)ethyl] ester |
| P094 | 298-02-2 | Phosphorodithioic acid, 0,0-diethyl S-[(ethylthio)methyl] ester |
| P044 | 60-51-5 | Phosphorodithioic acid, 0,0-dimethyl S-[2-(methylamino)-2-oxoethyl]ester |
| P043 | 55-91-4 | ~~-Phosphorofluoric-~~Phosphorofluoridic acid, bis(1-methylethyl)ester |
| - P094 | | ~~Phosphorothioic acid, 0,0-diethyl S-(ethylthio)methyl ester-~~ |
| P089 | 56-38-2 | Phosphorothioic acid, 0,0-diethyl 0-(~~-p--~~4-nitrophenyl) ester |
| P040 | 297-97-2 | Phosphorothioic acid, 0,0-diethyl 0-pyrazinyl ester |
| P097 | 52-85-7 | Phosphorothioic acid, 0,0-dimethyl 0-[p-((dimethylamino)-sulfonyl)phenyl]ester |

| | | |
|---|---|---|
| P071 | 298-00-0 | Phosphorothioic acid, 0,0-dimethyl 0-(4-nitrophenyl) ester |
| P110 | 78-00-2 | Plumbane, tetraethyl- |
| P098 | 151-50-8 | Potassium cyanide |
| P099 | 506-61-6 | Potassium silver cyanide |
| P070 | 116-06-3 | Propanal, 2-methyl-2-(methylthio)-, 0-[(methylamino)carbonyl]oxime |
| P101 | 107-12-0 | Propanenitrile |
| P027 | 542-76-7 | Propanentrile, 3-chloro- |
| P069 | 75-86-5 | Propanenitrile, 2-hydroxy-2-methyl- |
| P081 | 55-63-0 | 1,2,3-Propanetriol, trinitrate- (R) |
| P017 | 598-31-2 | 2-Propanone, 1-bromo- |
| P102 | 107-19-7 | Propargyl alcohol |
| P003 | 107-02-8 | 2-Propenal |
| P005 | 107-18-6 | 2-Propen-1-ol |
| P067 | 75-55-8 | 1,2-Propylenimine |
| P102 | 591-08-2 | 2-Propyn-1-ol |
| P008 | 504-24-5 | 4-Pyridinamine |
| P075 | P 54-11-5 | Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-, and salts |
| P111 | 107-49-3 | Pyrophosphoric acid, tetraethyl ester |
| P103 | 630-10-4 | Selenourea |
| P104 | 506-64-9 | Silver cyanide |
| P105 | 26628-22-8 | Sodium azide |
| P106 | 143-33-9 | Sodium cyanide |
| P107 | 1314-96-1 | Strontium sulfide |
| P108 | P 57-24-9 | Strychnidin-10-one, and salts |
| P018 | 357-57-3 | Strychnidin-10-one, 2,3-dimethoxy- |
| P108 | P 57-24-9 | Strychnine and salts |
| P115 | 10031-59-1 | Sulfuric acid, thallium (I) salt |
| P109 | 3689-24-5 | Tetraethyldithiopyrophosphate |
| P110 | 78-00-2 | Tetraethyl lead |
| P111 | 107-49-3 | Tetraethylpyrophosphate |
| P112 | 509-14-8 | Tetranitromethane (R) |
| P062 | 757-58-4 | Tetraphosphoric acid, hexaethyl ester |
| P113 | 1314-32-5 | Thallic oxide |
| P113 | 1314-32-5 | Thallium (III) oxide |
| P114 | 12039-52-0 | Thallium (I) selenide |
| P114 | 12039-52-0 | Thallium (I) selenite |
| P115 | 10031-59-1 | Thallium (I) sulfate |
| P109 | 3689-24-5 | Tetraethyldithiopyrophosphate |
| P045 | 39196-18-4 | Thiofanox |
| P049 | 541-53-7 | Thioimidodicarbonic diamide |
| P014 | 108-98-5 | Thiophenol |
| P116 | 79-19-6 | Thiosemicarbazide |
| P026 | 5344-82-1 | Thiourea, (2-chlorophenyl)- |
| P072 | 86-88-4 | Thiourea, 1-naphthalenyl- |
| P093 | 103-85-5 | Thiourea, phenyl- |
| P123 | 8001-35-2 | Toxaphene |
| P118 | 75-70-7 | Trichloromethanethiol |
| P119 | 7803-55-6 | Vanadic acid, ammonium salt |
| ~~P120~~ | | ~~Vanadium pentoxide-~~ |
| P120 | 1314-62-1 | Vanadium (V) oxide |
| P084 | 4549-40-0 | Vinylamine, N-methyl-N-nitroso- |
| P001 | 81-81-2 | Warfarin-~~; when present at concentration greater than~~ |

~~0.3%.~~

| | | |
|---|---|---|
| P121 | 557-21-1 | Zinc cyanide |
| P122 | 1314-84-7 | Zinc phosphide~~, when present at concentrations greater than 10%~~ (R,T) |

f) The commercial chemical products, manufacturing chemical intermediates or off-specification commercial chemical products referred to in subsections (a) through (d), are identified as toxic wastes (T) unless otherwise designated and are subject to the small quantity exclusion defined in Section 721.105(a) and (g). These wastes and their corresponding EPA Hazardous Waste Numbers are:

(Board Note: For the convenience of the regulated community, the primary hazardous properties of these materials have been indicated by the letters T (Toxicity), R (Reactivity), I (Ignitability) and C (Corrosivity). Absence of a letter indicates that the compound is only listed for toxicity.)

| Hazardous Waste No. | Chemical Abstracts No. | Substance |
|---|---|---|
| U001 | 75-07-1 | Acetaldehyde (I) |
| U034 | 75-87-6 | Acetaldehyde, trichloro- |
| U187 | 62-44-2 | Acetamide, N-(4-ethoxyphenyl)- |
| U005 | 53-96-3 | Acetamide, N-9H-fluoren-2-yl- |
| U112 | 141-78-6 | Acetic acid, ethyl ester (I) |
| U144 | 301-04-2 | Acetic acid, lead salt |
| U214 | 563-68-8 | Acetic acid, thallium (I) salt |
| U232 | 93-76-5 | Acetic acid, (2,4,5-trichlorophenoxy)- |
| U002 | 67-64-1 | Acetone (I) |
| U003 | 75-05-8 | Acetonitrile (I,T) |
| ~~U248~~ | | ~~3-(alpha-Acetonylbenzyl)-4-hydroxycoumarin and salts, when present at concentrations of 0.3% or less~~ |
| U004 | 98-86-2 | Acetophenone |
| U005 | 53-96-3 | 2-Acetylaminofluorene |
| U006 | 75-36-5 | Acetyl chloride (C,R,T) |
| U007 | 79-06-1 | Acrylamide |
| U008 | 79-10-7 | Acrylic acid (I) |
| U009 | 107-13-1 | Acrylontrile |
| ~~U150~~ | | ~~Alanine, 3-[p-bis(2-chloroethyl)amino] phenyl-, L-~~ |
| ~~U328~~ | | ~~2-Amino-1-methylbenzene~~ |
| ~~U353~~ | | ~~4-Amino-1-methylbenzene~~ |
| U011 | 61-82-5 | Amitrole |
| U012 | 62-53-3 | Aniline (I,T) |
| U014 | 492-80-8 | Auramine |
| U015 | 115-02-6 | Azaserine |
| U010 | 50-07-7 | Azirino(2',3':3,4)pyrrolo(1,2-a)indole-4,7-dione, 6-amino-8-[((aminocarbonyl)oxy)methyl]-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-methyl-, [1a-R-(1a-alpha, 8-beta, 8a-alpha, 8b-alpha)]- |
| U157 | 50-49-5 | Benz[j]aceanthrylene, 1,2-dihydro-3-methyl- |
| ~~U016~~ | | ~~Benz(c)acridine~~ |

| | | |
|---|---|---|
| U016 | 225-51-4 | 3,4-Benzacridine |
| U017 | 98-87-3 | Benzal chloride |
| U192 | 23950-58-5 | Benzamide, 3,5-dichloro-N-(1,1-diethyl-2-propynyl)- |
| U018 | 56-55-3 | Benz[a]anthracene |
| - U018 | | ~~1,2-Benzanthracene-~~ |
| U094 | 57-97-6 | ~~-1,2-Benzanthracene,-~~ Benz[a]anthracene, 7,12-dimethyl- |
| U012 | 62-53-3 | Benzenamine (I,T) |
| U014 | 492-80-8 | Benzenamine, 4,4'-carbonimidoylbis(N,N-dimethyl- |
| U049 | 3165-93-3 | Benzenamine, 4-chloro-2-methyl- |
| U093 | 60-11-7 | Benzenamine, ~~-N,N'-dimethyl-4-phenylazo--~~ N,N-dimethyl-4-(phenylazo)- |
| U328 | 95-53-4 | Benzenamine, 2-methyl- |
| U353 | 106-49-0 | Benzenamine, 4-methyl- |
| U158 | 101-14-4 | Benzenamine, 4,4'-methylenebis(2-chloro- |
| U222 | 636-21-5 | Benzenamine, 2-methyl-, hydrochloride |
| U181 | 99-55-8 | Benzenamine, 2-methyl-5-nitro- |
| U019 | 71-43-2 | Benzene ~~-(I,T)-~~ |
| U038 | 510-15-6 | Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy, ethyl ester |
| U030 | 101-55-3 | Benzene, 1-bromo-4-phenoxy- |
| U035 | 305-03-3 | Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]- |
| U037 | 108-90-7 | Benzene, chloro- |
| - U190 | | ~~1,2-Benzenedicarboxylic acid anhydride-~~ |
| U221 | 25376-45-8 | Benzenediamine, ar-methyl- |
| U028 | 117-81-7 | 1,2-Benzenedicarboxylic acid, ~~-[bis(2-ethylhexyl)]-~~ bis(2-ethylhexyl) ester |
| U069 | 84-74-2 | 1,2-Benzenedicarboxylic acid, dibutyl ester |
| U088 | 84-66-2 | 1,2-Benzenedicarboxylic acid, diethyl ester |
| U102 | 131-11-3 | 1,2-Benzenedicarboxylic acid, dimethyl ester |
| U107 | 117-84-0 | 1,2-Benzenedicarboxylic acid, di-n-octyl ester |
| U070 | 95-50-1 | Benzene, 1,2-dichloro- |
| U071 | 541-73-1 | Benzene, 1,3-dichloro- |
| U072 | 106-46-7 | Benzene, 1,4-dichloro- |
| U060 | 72-54-8 | Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro- |
| U017 | 98-87-3 | Benzene, (dichloromethyl)- |
| U223 | 26471-62-5 | Benzene, 1,3-diisocyanatomethyl- (R,T) |
| U239 | 1330-20-7 | Benzene, dimethyl- (I,T) |
| U201 | 108-46-3 | 1,3-Benzenediol |
| U127 | 118-74-1 | Benzene, hexachloro- |
| U056 | 110-82-7 | Benzene, hexahydro- (I) |
| - U188 | | ~~Benzene, hydroxy--~~ |
| U220 | 108-88-3 | Benzene, methyl- |
| U105 | 121-14-2 | Benzene, 1-methyl--~~1~~--2,4-dinitro- |
| U106 | 606-20-2 | Benzene, ~~-1-methyl-2,6-dinitro~~--2-methyl-1,3-dinitro- |
| U055 | 98-82-8 | Benzene, (1-methylethyl)- (I) |
| U169 | 98-95-3 | Benzene, nitro- (I,T) |
| U183 | 608-93-5 | Benzene, pentachloro- |
| U185 | 82-68-8 | Benzene, pentachloronitro- |
| U020 | 98-09-9 | Benzenesulfonic acid chloride (C,R) |
| U020 | 98-09-9 | Benzenesulfonyl chloride (C,R) |
| U207 | 95-94-3 | Benzene, 1,2,4,5-tetrachloro- |
| U061 | 50-29-3 | Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-chloro- |

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|---|---|---|---|
| | U247 | 72-43-5 | Benzene, 1,1'-(2,2,2-trichloroethylidene)[4-methoxy- |
| | U023 | 98-07-7 | Benzene, (trichloromethyl)- (C,R,T) |
| | U234 | 99-35-4 | Benzene, 1,3,5-trinitro- (R,T) |
| | U021 | 92-87-5 | Benzidene |
| | U202 | P 81-07-2 | 1,2-Benzisothiazol-3-(2H)-one, 1,1-dioxide and salts |
| | U203 | 94-59-7 | -Benzene, 1,2-methylenedioxy-4-allyl-- 1,3-Benzodioxole, 5-(2-propenyl)- |
| | U141 | 120-58-1 | -Benzene, 1,2-methylenedioxy-4-propenyl-- 1,3-Benzodioxole, 5-(1-propenyl)- |
| | U090 | 94-58-6 | -Benzene, 1,2-methylenedioxy-4-propyl-- 1,3-Benzodioxole, 5-propyl- |
| - | U055 | | Benzene, (1-methylethyl)- (I) |
| | U169 | | Benzene, nitro- (I,T) |
| | U183 | | Benzene, pentachloro- |
| | U185 | | Benzene, pentachloronitro- |
| | U020 | | Benzenesulfonic acid chloride (C,R) |
| | U020 | | Benzenesulfonyl chloride (C,R) |
| | U207 | | Benzene, 1,2,4,5-tetrachloro- |
| | U023 | | Benzene, (trichloromethyl)-(C,R,T) |
| | U234 | | Benzene, 1,3,5-trinitro- (R,T) |
| | U021 | | Benzidine |
| | U202 | | 1,2-Benzisothiazolin-3-one, 1,1-dioxide |
| | U120 | | Benzo[j,k]fluorene |
| | U022 | | Benzo[a]pyrene- |
| | U064 | 189-55-9 | Benzo[rst]pentaphene |
| | U022 | 50-32-8 | 3,4-Benzopyrene |
| | U197 | 106-51-4 | -3--p-Benzoquinone |
| | U023 | 98-07-7 | Benzotrichloride (C,R,T) |
| - | U050 | | 1,2-Benzphenanthrene- |
| | U085 | 1464-53-5 | 2,2'-Bioxirane (I,T) |
| | U021 | 92-87-5 | -(1,1'-Biphenyl)-[1,1'-Biphenyl]-4,4'-diamine |
| | U073 | 91-94-1 | -(1,1'-Biphenyl)-[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro- |
| | U091 | 119-90-4 | -(1,1'-Biphenyl)-[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy- |
| | U095 | 119-93-7 | -(1,1'-Biphenyl)-[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl- |
| - | U024 | | Bis(2-chloroethoxy) methane- |
| | U027 | 39638-32-9 | Bis(2-chloroisopropyl) ether |
| - | U244 | | Bis(dimethylthiocarbamoyl) disulfide- |
| | U024 | 111-91-1 | Bis(2-chloromethoxy) ethane |
| | U028 | 117-81-7 | Bis(2-ethylhexyl) phthalate |
| - | U246 | | Bromine cyanide- |
| | U225 | 75-25-2 | Bromoform |
| | U030 | 101-55-3 | 4-Bromophenyl phenyl ether |
| | U128 | 87-68-3 | 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- |
| | U172 | 924-16-3 | 1-Butanamine, N-butyl-N-nitroso- |
| - | U035 | | Butanoic acid, 4-[Bis(2-chloroethyl)amino] benzene-- |
| | U031 | 71-36-3 | 1-Butanol (I) |
| | U159 | 78-93-3 | Butanone (I,T) |
| | U160 | 1338-23-4 | 2-Butanone peroxide (R,T) |
| | U053 | 4170-30-3 | 2-Butenal |
| | U074 | 764-41-0 | 2-Butene, 1,4-dichloro- (I,T) |
| | U143 | 303-34-4 | 2-Butenoic acid, 2-methyl-, 7-[(2,3-dihydroxy-2-(1- |

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|---|---|---|
| | | methoxyethyl)-3-methyl-1-oxobutoxy)methyl]-2,3,5,7a-tetrahydro-1H-pyrrolizin-1-yl ester, [1S-[alpha(Z), 7(2S,3R), 7a-alpha]] |
| U031 | 71-36-3 | n-Butyl alcohol (I) |
| U136 | 75-60-5 | Cacodylic acid |
| U032 | 13765-19-0 | Calcium chromate |
| U238 | 51-79-6 | Carbamic acid, ethyl ester |
| U178 | 615-53-2 | Carbamic acid, methylnitroso-, ethyl ester |
| ~~U176~~ | | ~~Carbamide, N-ethyl-N-nitroso-~~ |
| ~~U177~~ | | ~~Carbamide, N-methyl-N-nitroso-~~ |
| ~~U219~~ | | ~~Carbamide, thio--~~ |
| U097 | 79-44-7 | ~~-Carbamoyl-~~Carbamic chloride, dimethyl- |
| U114 | P 111-54-6 | Carbamodithioic acid, 1,2-ethanediylbis-, salts and esters |
| U062 | 2303-16-4 | Carbamothioic acid, bis(1-methylethyl)-S-(2,3-dichloro-2-propenyl) ester |
| U215 | 6533-73-9 | Carbonic acid, dithallium (I) salt |
| U033 | 353-50-4 | Carbonic difluoride |
| U156 | 79-22-1 | Carbonochloridic acid, methyl ester (I,T) |
| U033 | 353-50-4 | Carbon oxyfluoride (R,T) |
| U211 | 56-23-5 | Carbon tetrachloride |
| ~~U033~~ | | ~~Carbonyl fluoride (R,T)-~~ |
| U034 | 75-87-6 | Chloral |
| U035 | 305-03-3 | Chlorambucil |
| U036 | 12789-03-6 | Chlordane-~~, technical-~~ |
| U026 | 494-03-1 | Chlornaphazin-e- |
| U037 | 108-90-7 | Chlorobenzene |
| U039 | 59-50-7 | ~~-4--~~p-Chloro-m-cresol |
| U041 | 106-89-8 | 1-Chloro-2,3-epoxypropane |
| U042 | 110-75-8 | 2-Chloroethyl vinyl ether |
| U044 | 67-66-3 | Chloroform |
| U046 | 107-30-2 | Chloromethyl methyl ether |
| U047 | 91-58-7 | ~~-beta-Chloronapthalene-~~ beta-Chloronaphthalene |
| U048 | 95-57-8 | o-Chlorophenol |
| U049 | 3165-93-3 | 4-Chloro-o-toluidine, hydrochloride |
| U032 | 13765-19-0 | Chromic acid, calcium salt |
| U050 | 218-01-9 | Chrysene |
| U051 | 8021-39-4 | Creosote |
| U052 | 1319-77-3 | Cresols Cresylic acid |
| ~~U052~~ | | ~~Cresylic acid-~~ |
| U053 | 4170-30-3 | Crotonaldehyde |
| U055 | 98-82-8 | Cumeme (I) |
| U246 | 506-68-3 | Cyanogen bromide |
| U197 | 106-51-4 | ~~-1,4--~~2,5-Cyclohexadiene-1,4-dione |
| U056 | 110-82-7 | Cyclohexane (I) |
| U057 | 108-94-1 | Cyclohexanone (I) |
| U130 | 77-47-4 | 1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro- |
| U058 | 50-18-0 | Cyclophosphamide |
| U240 | P 94-75-7 | 2,4-D, salts and esters |
| U059 | 20830-81-3 | Daunomycin |
| U060 | 72-54-8 | DDD |
| U061 | 50-29-3 | DDT |
| ~~U142~~ | | ~~Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta[c,d]-pentalen-2-one-~~ |

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|---|---|---|---|
| | U062 | 2303-16-4 | Diallate |
| - | ~~U133~~ | | ~~Diamine (R,T)~~ |
| | ~~U221~~ | | ~~Diaminotoluene-~~ |
| | U063 | 53-70-3 | Dibenz[a,h]anthracene |
| - | ~~U063~~ | | ~~1,2:5,6-Dibenzanthracene~~ |
| | ~~U064~~ | | ~~1,2:7,8-Dibenzopyrene-~~ |
| | U064 | 189-55-9 | ~~-Dibenz[a,i]pyrene-~~ Dibenzo[a,i]pyrene |
| | U066 | 96-12-8 | 1,2-Dibromo-3-chloropropane |
| | U069 | 84-74-2 | Dibutyl phthalate |
| - | ~~U062~~ | | ~~S-(2,3-Dichloroallyl) diisopropylthiocarbamate-~~ |
| | U070 | 95-50-1 | o-Dichlorobenzene |
| | U071 | 541-73-1 | m-Dichlorobenzene |
| | U072 | 106-46-7 | p-Dichlorobenzene |
| | U073 | 91-94-1 | 3,3'-Dichlorobenzidine |
| | U074 | 764-41-0 | 1,4-Dichloro-2-butene (I,T) |
| | U075 | 75-71-8 | Dichlorodifluoromethane |
| - | ~~U192~~ | | ~~3,5-Dichloro-N-(1,1-dimethyl-2-propynyl) benzamide~~ |
| | ~~U060~~ | | ~~Dichlorodiphenyldichloroethane~~ |
| | ~~U061~~ | | ~~Dichlorodiphenyltrichloroethane-~~ |
| | U078 | 75-35-4 | 1,1-Dichloroethylene |
| | U079 | 156-60-5 | 1,2-Dichloroethylene |
| | U025 | 111-44-1 | Dichloroethyl ether |
| | U081 | 120-83-2 | 2,4-Dichlorophenol |
| | U082 | 87-65-0 | 2,6-Dichlorophenol |
| | U240 | P 94-75-7 | 2,4-Dichlorophenoxyacetic acid, salts and esters |
| | U083 | 78-87-5 | 1,2-Dichloropropane |
| | U084 | 542-75-6 | 1,3-Dichloropropene |
| | U085 | 1464-53-5 | 1,2:3,4-Diepoxybutane (I,T) |
| | U108 | 123-91-1 | ~~-1,4-Diethylene dioxide-~~ 1,4-Diethyleneoxide |
| | U086 | 1615-80-1 | N,N-Diethylhydrazine |
| | U087 | 3288-58-2 | O,O-Diethyl-S-methyl-dithiophosphate |
| | U088 | 84-66-2 | Diethyl phthalate |
| | U089 | 56-53-1 | Diethylstilbestrol |
| - | ~~U148~~ | | ~~1,2-Dihydro-3,6-pyradizinedione-~~ |
| | U090 | 94-58-6 | Dihydrosafrole |
| | U091 | 119-90-4 | 3,3'-Dimethoxybenzidine |
| | U092 | 124-40-3 | Dimethylamine (I) |
| | U093 | 60-11-7 | Dimethylaminoazobenzene |
| | U094 | 57-97-6 | 7,12-Dimethylbenz[a]anthracene |
| | U095 | 119-93-7 | 3,3'-Dimethylbenzidine |
| | U096 | 80-15-9 | alpha, alpha-Dimethylbenzylhydroperoxide (R) |
| | U097 | 79-44-7 | Dimethylcarbamoyl chloride |
| | U098 | 57-14-7 | 1,1-Dimethylhydrazine |
| | U099 | 540-73-8 | 1,2-Dimethylhydrazine |
| | U101 | 105-67-9 | 2,4-Dimethylphenol |
| | U102 | 131-11-3 | Dimethyl phthalate |
| | U103 | 77-78-1 | Dimethyl sulfate |
| | U105 | 121-14-2 | 2,4-Dinitrotoluene |
| | U106 | 606-20-2 | 2,6-Dinitrotoluene |
| | U107 | 117-84-0 | Di-n-octyl phthalate |
| | U108 | 123-91-1 | 1,4-Dioxane |
| | U109 | 122-66-7 | 1,2-Diphenylhydrazine |
| | U110 | 142-84-7 | Dipropylamine (I) |
| | U111 | 621-64-7 | ~~-Di-N-propylnitrosoamine-~~ Di-n-propylnitrosamine |

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|---|---|---|
| U001 | 75-07-0 | Ethanal (I) |
| U174 | 55-18-5 | Ethanamine, N-ethyl-N-nitroso- |
| U155 | 91-80-5 | 1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)- |
| U067 | 106-93-4 | Ethane, 1,2-dibromo- |
| U076 | 75-34-3 | Ethane, 1,1-dichloro- |
| U077 | 107-06-2 | Ethane, 1,2-dichloro- |
| ~~U114~~ | | ~~1,2-Ethanediylbiscarbamodithioic acid-~~ |
| U131 | 67-72-1 | Ethane, ~~1,1,1,2,2,2~~-hexachloro- |
| U024 | 111-91-1 | Ethane, 1,1'-[methylenebis(oxy)]bis(2-chloro- |
| ~~U247~~ | | ~~Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenol)-~~ |
| ~~U003~~ | | ~~Ethanenitrile (I,T)-~~ |
| U117 | 60-29-7 | Ethane, 1,1'-oxybis- (I) |
| U025 | 111-44-4 | Ethane, 1,1'-oxybis(2-chloro- |
| U184 | 76-01-7 | Ethane, pentachloro- |
| U208 | 630-20-6 | Ethane, 1,1,1,2-tetrachloro- |
| U209 | 79-34-5 | Ethane, 1,1,2,2-tetrachloro- |
| U218 | 62-55-5 | Ethanethioamide |
| U227 | 79-00-5 | Ethane, 1,1,2-trichloro- |
| U359 | 110-80-5 | Ethanol, 2-ethoxy- |
| U173 | 1116-54-7 | Ethanol, 2,2'-(nitrosoimino)bis- |
| U004 | 98-86-2 | Ethanone, 1-phenyl- |
| U043 | 75-01-4 | Ethene, chloro- |
| U042 | 110-75-8 | Ethene, ~~2-chloroethoxy~~-- (2-chloroethoxy)- |
| U078 | 75-35-4 | Ethene, 1,1-dichloro- |
| U079 | 156-60-5 | Ethene, ~~trans~~--1,2-dichloro-, (E)- |
| U210 | 127-18-4 | Ethene, ~~1,1,2,2~~--tetrachloro- |
| ~~U173~~ | | ~~Ethanol, 2,2'-(nitrosoimino)bis-~~ |
| ~~U004~~ | | ~~Ethanone, 1-phenyl-~~ |
| ~~U006~~ | | ~~Ethanoyl chloride (C,R,T)~~ |
| ~~U359~~ | | ~~2-Ethoxyethanol-~~ |
| U228 | 79-01-6 | Ethene, trichloro- |
| U112 | 141-78-6 | Ethyl acetate (I) |
| U113 | 140-88-5 | Ethyl acrylate (I) |
| U238 | 51-79-6 | Ethyl carbamate ~~(urethan)~~- |
| U038 | 510-15-6 | Ethyl 4,4'-dichlorobenzilate |
| U114 | 111-54-6 | Ethylenebis(dithiocarbamic acid), salts and esters |
| U067 | 106-93-4 | Ethylene dibromide |
| U077 | 107-06-2 | Ethylene dichloride |
| U359 | 110-80-5 | Ethylene glycol monoethyl ether |
| U115 | 75-21-8 | Ethylene oxide (I,T) |
| U116 | 96-45-7 | Ethylene thiourea |
| U117 | 60-29-7 | Ethyl ether (I) |
| U076 | 75-34-3 | Ethylidene dichloride |
| U118 | 97-63-2 | ~~Ethyl methacrylate~~Ethyl methacrylate |
| U119 | 62-50-0 | Ethyl methanesulfonate |
| ~~U139~~ | | ~~Ferric dextran-~~ |
| U120 | 206-44-0 | Fluoranthene |
| U122 | 50-00-0 | Formaldehyde |
| U123 | 64-18-6 | Formic acid (C,T) |
| U124 | 110-00-9 | Furan (I) |
| U125 | 98-01-1 | 2-Furancarboxaldehyde (I) |
| U147 | 108-31-6 | 2,5-Furandione |
| U213 | 109-99-9 | Furan, tetrahydro- (I) |

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|---|---|---|
| U125 | 98-01-1 | Furfural (I) |
| U124 | 110-00-9 | Furfuran (I) |
| U206 | 18883-66-4 | D-Glucopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)- |
| U126 | 765-34-4 | Glycidylaldehyde |
| U163 | 70-25-7 | Guanidine, ~~-N-nitroso-N-methyl-N'-nitro-~~ N-methyl-N'-nitro-N-nitroso- |
| U127 | 118-74-1 | Hexachlorobenzene |
| U128 | 87-68-3 | Hexachlorobutadiene |
| U129 | 58-88-9 | Hexachlorocyclohexane (gamma isomer) |
| U130 | 77-47-4 | Hexachlorocyclopentadiene |
| U131 | 67-72-1 | Hexachloroethane |
| U132 | 70-30-4 | Hexachlorophene |
| U243 | 1888-71-7 | Hexachloropropene |
| U133 | 302-01-2 | Hydrazine (R,T) |
| U086 | 1615-80-1 | Hydrazine, 1,2-diethyl- |
| U098 | 57-14-7 | Hydrazine, 1,1-dimethyl- |
| U099 | 540-73-8 | Hydrazine, 1,2-dimethyl- |
| U109 | 122-66-7 | Hydrazine, 1,2-diphenyl- |
| U134 | 7664-39-3 | Hydrofluoric acid (C,T) |
| U134 | 7664-39-3 | Hydrogen fluoride (C,T) |
| U135 | 7783-06-4 | Hydrogen sulfide |
| U096 | 80-15-9 | Hydroperoxide, 1-methyl-1-phenylethyl- (R) |
| U136 | 75-60-5 | Hydroxydimethylarsine oxide |
| U116 | 96-45-7 | 2-Imidazolidinethione |
| U137 | 193-39-5 | ~~-Indeno[1,2,3-cd]pyrene-~~ Indeno[1,2,3cd]pyrene |
| U139 | 9004-66-4 | Iron dextran |
| U190 | 85-44-9 | 1,3-Isobenzofurandione |
| U140 | 78-83-1 | Isobutyl alcohol (I,T) |
| U141 | 120-58-1 | Isosafrole |
| U142 | 143-50-0 | Kepone |
| U143 | 303-34-4 | Lasiocarpene |
| U144 | 301-04-2 | Lead acetate |
| U146 | 1335-32-6 | Lead, bis(acetato-O)tetrahydroxytri- |
| U145 | 7446-27-7 | Lead phosphate |
| U146 | 1335-32-6 | Lead subacetate |
| U129 | 58-89-9 | Lindane |
| U147 | 108-31-6 | Maleic anhydride |
| U148 | 123-33-1 | Maleic hydrazide |
| U149 | 109-77-3 | Malononitrile |
| U150 | 148-82-3 | Melphalan |
| U151 | 7439-97-6 | Mercury |
| U152 | 126-98-7 | Methacrylonitrile (I,T) |
| U092 | 124-40-3 | Methanamine, N-methyl- (I) |
| U029 | 74-83-9 | Methane, bromo |
| U045 | 74-87-3 | Methane, chloro- (I,T) |
| U046 | 107-30-2 | Methane, chloromethoxy- |
| U068 | 74-95-3 | Methane, dibromo- |
| U080 | 75-09-2 | Methane, dichloro- |
| U075 | 75-71-8 | Methane, dichlorodifluoro- |
| U138 | 74-88-4 | Methane, iodo- |
| U119 | 62-50-0 | Methanesulfonic acid, ethyl ester |
| U211 | 56-23-5 | Methane, tetrachloro- |
| ~~U121~~ | | ~~Methane, trichlorofluoro--~~ |

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|---|---|---|
| U153 | 74-93-1 | Methanethiol (I,T) |
| U225 | 75-25-2 | Methane, tribromo- |
| U044 | 67-66-3 | Methane, trichloro- |
| U121 | 75-69-4 | Methane, trichlorofluoro- |
| U123 | 64-18-6 | Methanoic acid (C,T) |
| - ~~U036~~ | | ~~4,7-Methanoindan, 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro--~~ |
| U154 | 67-56-1 | Methanol (I) |
| U155 | 91-80-5 | Methapyrilene |
| U142 | 143-50-0 | 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro- |
| U247 | 72-43-5 | Methoxychlor |
| U154 | 67-56-1 | Methyl alcohol (I) |
| U029 | 74-83-9 | Methyl bromide |
| U186 | 504-60-9 | 1-Methylbutadiene (I) |
| U045 | 74-87-3 | Methyl chloride (I,T) |
| U156 | 79-22-1 | Methyl chlorocarbonate (I,T) |
| U226 | 71-55-6 | Methylchloroform |
| U157 | 56-49-5 | 3-Methylcholanthrene |
| U158 | 101-14-4 | 4,4'-Methylenebis(2-chloroaniline) |
| - ~~U132~~ | | ~~2,2'-Methylenebis(3,4,6-trichlorophenol)-~~ |
| U068 | 74-95-3 | Methylene bromide |
| U080 | 75-09-2 | Methylene chloride |
| - ~~U122~~ | | ~~Methylene oxide-~~ |
| U159 | 78-93-3 | Methyl ethyl ketone (MEK) (I,T) |
| U160 | 1338-23-4 | Methyl ethyl ketone peroxide (R,T) |
| U138 | 74-88-4 | Methyl iodide |
| U161 | 108-10-1 | Methyl isobutyl ketone (I) |
| U162 | 80-62-6 | Methyl methacrylate (I,T) |
| U163 | 70-25-7 | N-Methyl-N'-nitro-N-nitrosoguanidine |
| U161 | 108-10-1 | 4-Methyl-2-pentanone (I) |
| U164 | 56-04-2 | Methylthiouracil |
| - ~~U247~~ | | ~~Methoxychlor-~~ |
| U010 | 50-07-7 | Mitomycin C |
| U059 | 20830-81-3 | 5,12-Naphthacenedione, -(8S-cis)-8-acetyl-10-[(3-amino-2,3,6-trideoxy-alpha-L-lyxo-hexapyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-- (8S-cis)-8-acetyl-10-[(3-amino-2,3,6-trideoxy-alpha-L-lyxo-hexapyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy- |
| U165 | 91-20-3 | Naphthalene |
| U047 | 91-58-7 | Naphthalene, 2-chloro- |
| U166 | 130-15-4 | 1,4-Naphthalenedione |
| U236 | 72-57-1 | 2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-dimethyl-(1,1'-biphenyl)-4,4'-diyl)]-bis(azo)bis(5-amino-4-hydroxy)-, tetrasodium salt |
| U166 | 130-15-4 | ~~1,4-Naphthaquinone-~~ 1,4-Naphthoquinone |
| - ~~U167~~ | | ~~1-Naphthylamine~~ |
| ~~U168~~ | | ~~2-Naphthylamine-~~ |
| U167 | 134-32-7 | alpha-Naphthylamine |
| U168 | 91-59-8 | beta-Naphthylamine |
| U026 | 494-03-1 | 2-Naphthylamine, N,N'-bis(2-chloromethyl)- |
| U167 | 134-32-7 | 1-Naphthylenamine |
| U168 | 91-59-8 | 2-Naphthylenamine |

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|---|---|---|
| U217 | 10102-45-1 | Nitric acid, thallium (I) salt |
| U169 | 98-95-3 | Nitrobenzene (I,T) |
| U170 | 100-02-7 | p-Nitrophenol |
| U171 | 79-46-9 | 2-Nitropropane (I,T) |
| U172 | 924-16-3 | N-Nitrosodi-n-butylamine |
| U173 | 1116-54-7 | N-Nitrosodiethanolamine |
| U174 | 55-18-5 | N-Nitrosodiethylamine |
| ~~U111~~ | | ~~N-Nitroso-N-propylamine~~ |
| U176 | 759-73-9 | N-Nitroso-N-ethylurea |
| U177 | 684-93-5 | N-Nitroso-N-methylurea |
| U178 | 615-53-2 | N-Nitroso-N-methylurethane |
| U179 | 100-75-4 | N-Nitrosopiperidine |
| U180 | 930-55-2 | N-Nitrosopyrrolidine |
| U181 | 99-55-8 | 5-Nitro-o-toluidine |
| U193 | 1120-71-4 | 1,2-Oxathiolane, 2,2-dioxide |
| U058 | 50-18-0 | ~~2H-1,3,2-Oxazaphosphorine 2-[bis(2-chloroethyl)amino]tetrahydro-, oxide~~ 2--2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide |
| U115 | 75-21-8 | Oxirane (I,T) |
| U126 | 765-34-4 | Oxiranecarboxyaldehyde |
| U041 | 106-89-8 | ~~Oxarane, 2-(chloromethyl)~~-- Oxirane, (chloromethyl)- |
| U182 | 123-63-7 | Paraldehyde |
| U183 | 608-93-5 | Pentachlorobenzene |
| U184 | 76-01-7 | Pentachloroethane |
| U185 | 82-68-8 | Pentachloronitrobenzene (PCNB) |
| ~~See F027~~ | | |
| U242 | 87-86-5 | Pentachlorophenol |
| U186 | 504-60-9 | ~~1,3-pentadiene (I)~~- 1,3-Pentadiene (I) |
| U187 | 62-44-2 | Phenacetin |
| U188 | 108-95-2 | Phenol |
| U048 | 95-57-8 | Phenol, 2-chloro- |
| U039 | 59-50-7 | Phenol, 4-chloro-3-methyl- |
| U081 | 120-83-2 | Phenol, 2,4-dichloro- |
| U082 | 87-65-0 | Phenol, 2,6-dichloro- |
| U089 | 56-53-1 | Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis, (E)- |
| U101 | 105-67-9 | Phenol, 2,4-dimethyl- |
| U052 | 1319-77-3 | Phenol, methyl- |
| U132 | 70-30-4 | Phenol, 2,2'-methylenebis[3,4,6-trichloro- |
| U170 | 100-02-7 | Phenol, 4-nitro- |
| ~~See F027~~ | | |
| U242 | 87-86-5 | Phenol, pentachloro- |
| ~~See F027~~ | | |
| U212 | 58-90-2 | Phenol, 2,3,4,6-tetrachloro- |
| ~~See F027~~ | | |
| U230 | 95-94-4 | Phenol, 2,4,5-trichloro- |
| ~~See F027~~ | | |
| U231 | 88-06-2 | Phenol, 2,4,6-trichloro- |
| U150 | 148-82-3 | L-Phenylalanine, 4-[bis(2-chloroethyl)amino]- |
| ~~U137~~ | | ~~1,10-(1,2-phenylene)pyrene~~ |
| U145 | 7446-27-7 | Phosphoric acid, lead salt |
| U087 | 3288-58-2 | Phosphorodithioic acid, O,O-diethyl --, ~~S-methyl~~--S-methyl ester |
| U189 | 108-95-2 | ~~Phosphorous~~ Phosphorus sulfide (R) |

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|---|---|---|---|
| | U190 | 85-44-9 | Phthalic anhydride |
| | U191 | 109-06-8 | 2-Picoline |
| | U179 | 100-75-4 | Piperidine, 1-nitroso- |
| | U192 | 23950-58-5 | Pronamide |
| | U194 | 107-10-8 | 1-Propanamine (I,T) |
| | U111 | 621-64-7 | 1-Propanamine, N-nitroso-N-propyl- |
| | U110 | 142-84-7 | 1-Propanamine, N-propyl- (I) |
| | U066 | 96-12-8 | Propane, 1,2-dibromo-3-chloro- |
| | U149 | 109-77-3 | Propanedinitrile |
| | U171 | 79-46-9 | Propane, 2-nitro- (I,T) |
| | U027 | 39638-32-9 | Propane, 2,2'-oxybis[2-chloro- |
| | U193 | 1120-71-4 | 1,3-Propane sultone |
| | U235 | 126-72-7 | 1-Propanol, 2,3-dibromo-, phosphate (3:1) |
| - | ~~U126~~ | | ~~1-Propanol, 2,3-epoxy--~~ |
| | U140 | 78-83-1 | 1-Propanol, 2-methyl- (I,T) |
| | U002 | 67-64-1 | 2-Propanone (I) |
| - | ~~U007~~ | | ~~2-Propenamide-~~ |
| | U084 | 542-75-6 | Propene, 1,3-dichloro- |
| - | ~~U243~~ | | ~~1-Propene, 1,1,2,3,3,3-hexachloro-~~ |
| | ~~U009~~ | | ~~2-Propenenitrile-~~ |
| | U152 | 126-98-7 | 2-Propenenitrile, 2-methyl- (I,T) |
| | U007 | 79-06-1 | 2-Propenamide |
| | U243 | 1888-71-7 | 1-Propene, hexachloro- |
| | U009 | 107-13-1 | 2-Propenenitrile |
| | U008 | 79-10-7 | 2-Propenoic acid (I) |
| | U113 | 140-88-5 | 2-Propenoic acid, ethyl ester (I) |
| | U118 | 97-63-2 | 2-Propenoic acid, 2-methyl-, ethyl ester |
| | U162 | 80-66-2 | 2-Propenoic acid, 2-methyl-, methyl ester (I,T) |
| | -See ~~F027~~- | | |
| | U233 | 93-72-1 | Propionic acid, 2-(2,4,5-trichlorophenoxy)- |
| | U194 | 107-10-8 | n-Propylamine (I,T) |
| | U083 | 78-87-5 | Propylene dichloride |
| | U148 | 123-33-1 | 3,6-Pyridazinedione, 1,2-dihydro- |
| | U196 | 110-86-1 | Pyridine |
| - | ~~U155~~ | | ~~Pyridine, 2-[(2-(dimethylamino)-2-thenylamino]-~~ |
| | ~~U179~~ | | ~~Pyridine, hexahydro-N-nitroso--~~ |
| | U191 | 109-06-8 | ~~-Pyridine,~~-Pyridine, 2-methyl- |
| | U237 | 66-75-1 | 2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl)amino]- |
| | U164 | 58-04-2 | 4-(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo- |
| | U180 | 930-55-2 | ~~-Pyrrole, tetrahydro-N-nitroso--~~ Pyrrolidine, 1-nitroso- |
| | U200 | 50-55-5 | Reserpine |
| | U201 | 108-46-3 | Resorcinol |
| | U202 | 81-07-2 | Saccharin and salts |
| | U203 | 94-59-7 | Safrole |
| | U204 | 7783-00-8 | Selenious acid |
| | U204 | 7783-00-8 | Selenium dioxide |
| | U205 | 7446-34-6 | Selenium disulfide (R,T) |
| | U015 | 115-02-6 | L-Serine, diazoacetate (ester) |
| | -See ~~F027~~- | | |
| | U233 | 93-72-1 | Silvex |
| - | ~~U089~~ | | ~~4,4'-Stilbenediol, alpha, alpha'-diethyl--~~ |
| | U206 | 18883-66-4 | Streptozotocin |

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|---|---|---|
| - | ~~U135~~ | ~~Sulfur hydride-~~ |
| | U103 77-78-1 | Sulfuric acid, dimethyl ester |
| | U189 1314-80-3 | Sulfur phosphide (R) |
| - | ~~U205~~ | ~~Sulfur selenide (R,T)-~~ |
| | ~~-See F027-~~ | |
| | U232 93-76-5 | 2,4,5-T |
| | U207 95-94-3 | 1,2,4,5-Tetrachlorobenzene |
| | U208 630-20-6 | 1,1,1,2-Tetrachloroethane |
| | U209 79-34-5 | 1,1,2,2-Tetrachloroethane |
| | U210 127-18-4 | Tetrachloroethylene |
| | ~~-See F027-~~ | |
| | U212 58-90-2 | 2,3,4,6-Tetrachlorophenol |
| | U213 109-99-9 | Tetrahydrofuran (I) |
| | U214 15843-14-8 | Thallium (I) acetate |
| | U215 6533-73-9 | Thallium (I) carbonate |
| | U216 7791-12-0 | Thallium (I) chloride |
| | U217 10102-45-1 | Thallium (I) nitrate |
| | U218 62-55-5 | Thioacetamide |
| | U153 74-93-1 | Thiomethanol (I,T) |
| | U244 137-26-8 | Thioperoxydicarbonic diamide, tetramethyl- |
| | U219 62-56-6 | Thiourea |
| | U244 137-26-8 | Thiram |
| | U220 108-88-3 | Toluene |
| | U221 25376-45-8 | Toluenediamine |
| | U223 26471-62-5 | Toluene diisocyanate (R,T) |
| | U328 95-53-4 | o-Toluidine |
| | U353 106-49-0 | p-Toluidine |
| | U222 636-21-5 | o-Toluidine hydrochloride |
| | U011 61-82-5 | 1H-1,2,4-Triazol-3-amine |
| | U226 71-55-6 | 1,1,1-Trichloroethane |
| | U227 79-00-6 | 1,1,2-Trichloroethane |
| - | ~~U228~~ | ~~Trichloroethene-~~ |
| | U228 79-01-6 | Trichloroethylene |
| | U121 75-69-4 | Trichloromonofluoromethane |
| | ~~-See F027-~~ | |
| | U230 95-95-4 | 2,4,5-Trichlorophenol |
| | ~~-See F027-~~ | |
| | U231 88-06-2 | 2,4,6-Trichlorophenol |
| - | ~~See F027~~ | ~~2,4,5-Trichlorophenoxyacetic acid-~~ |
| | U234 99-35-4 | sym-Trinitrobenzene (R,T) |
| | U182 123-63-7 | 1,3,5-Trioxane, ~~-2,4,5-trimethyl-~~-2,4,6-trimethyl- |
| | U235 126-72-7 | Tris(2,3-dibromopropyl) phosphate |
| | U236 72-57-1 | Trypan blue |
| - | ~~U237~~ | ~~Uracil, 5[bis(2-chloromethyl)amino]--~~ |
| | U237 66-75-1 | Uracil mustard |
| | U176 759-73-9 | Urea, N-ethyl-N-nitroso- |
| | U177 684-93-5 | Urea, N-methyl-N-nitroso- |
| | U043 75-01-4 | Vinyl chloride |
| | U248 81-81-2 | Warfarin, when present at concentrations of 0.3% or less |
| | U239 1330-20-7 | Xylene (I) |
| - | ~~U249~~ | ~~Zinc phosphide, when present at concentrations of 10% or less-~~ |
| | U200 50-55-5 | Yohimban-16-carboxylic acid, 11,17-di-methoxy-18- |

| | | |
|---|---|---|
| U249 | 1314-84-7 | [(3,4,5-trimethoxy-benzoyl)oxy]-,methyl ester<br>Zinc phosphide, when present at concentrations of 10% or less |

(Source: Amended at 12 Ill. Reg. , effective )

Appendix H Hazardous Constituents

| Common Name | Chemical Abstracts Number | Chemical Abstracts Name |
|---|---|---|
| Acetonitrile | 75-05-8 | -(ethanenitrile)- Same |
| Acetophenone | 98-86-2 | -(-Ethanone, 1-phenyl--)- |
| -3-(alpha-acetonylbenzyl)-4-hydroxycoumarin and salts | | (warfarin)- |
| 2-Acetylaminofluorene | 53-96-3 | -(-Acetamide, N-(9H-fluoren-2-yl)--)- |
| Acetyl chloride | 75-36-5 | -(Ethanoyl chloride)- Same |
| 1-Acetyl-2-thiourea | 591-08-2 | -(-Acetamide, N-(aminothioxomethyl)--)- |
| Acrolein | 107-02-8 | -(-2-Propenal-)- |
| Acrylamide | 79-06-1 | -(-2-Propenamide-)- |
| Acrylonitrile | 107-13-1 | -(-2-Propenenitrile-)- |
| Aflatoxins | 1402-68-2 | Aflatoxin |
| Aldicarb | 116-06-3 | Propenal, 2-methyl-2-(methylthio)-, O-[(methylamino)carbonyl]oxime |
| Aldrin | 309-00-2 | -(1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-endo,exo-1,4:5,8-dimethanonaphthalene)- 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, 1-alpha, 4-alpha, 4a-beta, 5-alpha, 8-alpha, 8a-beta)- |
| Allyl alcohol | 107-18-6 | (2-Propen-1-ol) |
| Aluminum phosphide | 20859-73-8 | Same |
| 4-Aminobiphenyl | 92-67-1 | -(-[1,1'-Biphenyl]-4-amine-)- |
| -6-amino-1,1a,2,8,8a,8b-hexahydro-8-(hydroxymethyl)-8a-methoxy-5-methylcarbamate azirino[2',3':3,4]pyrrolo[1,2a]indole-4,7-dione, (ester) (mitomycin C) | | (azirino[2',3':3,4]pyrrolo(1,2a)indole-4,7-dione, 6-amino-8-[((aminocarbonyl)oxy)methyl]-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-methyl-)- |
| 5-(Aminomethyl)-3-isoxazolol | 2763-96-4 | -(-3(2H)-Isoxazolone, 5-(aminomethyl)--)- |
| 4-Aminopyridine | 504-24-5 | -(-4-Pyridinamine-)- |
| Amitrole | 61-82-5 | -(-1H-1,2,4-Triazol-3-amine-)- |
| Ammonium vanadate | 7803-55-6 | Vanadic acid, ammonium salt |
| Aniline | 62-53-3 | -(-Benzenamine-)- |
| Antimony and compounds, N.O.S. (not otherwise specified) | 7440-36-0 | Antimony |
| Aramite | 140-57-8 | -(-Sulfurous acid, 2-chloroethyl-, 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester-)- |
| Arsenic and compounds, N.O.S. | 7440-38-2 | Arsenic |
| Arsenic acid | 7778-39-4 | -(orthoarsenic acid)- Arsenic acid $AsH_3O_4$ |
| Arsenic pentoxide | 1303-28-2 | -(arsenic (V) oxide)- Arsenic acid $As_2O_5$ |
| Arsenic trioxide | 1327-53-3 | -(arsenic (III) oxide)- Arsenic acid $As_2O_3$ |
| Auramine | 492-80-8 | -(-Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-, monohydrochloride] |
| Azaserine | 115-02-6 | -(-L-Serine, diazoacetate (ester)-)- |
| Barium and compounds, N.O.S. | 7440-39-3 | Barium |
| Barium cyanide | 542-62-1 | Same |

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| Benz[c]acridine | 225-51-4 | -{3,4-Benzacridine}- Same |
| Benz[a]anthracene | 56-55-3 | -{1,2-Benzanthracene}- Same |
| Benzal chloride | 98-87-3 | Benzene, (dichloromethyl)- |
| Benzene | 71-43-2 | -{cyclohexatriene}- Same |
| -Benzene, 2-amino-1-methyl | | {o-toluidine} |
| Benzene, 4-amino-1-methyl | | {p-toluidine}- |
| Benzenearsonic acid | 98-05-5 | -{-Arsonic acid, phenyl--}- |
| -Benzene, dichloromethyl- | | {Benzal chloride} |
| Benzenethiol | | {thiophenol}- |
| Benzidine | 92-87-5 | -{-[1,1'-Biphenyl]-4,4'-diamine-}- |
| Benzo(b)fluoranthene | 205-99-2 | -{2,3-Benzofluoranthene}- |
| | | Benz[e]acephenanthrylene |
| Benzo(j)fluoranthene | 205-82-3 | -{7,8-Benzofluoranthene}- Same |
| Benzo(a)pyrene | 50-32-8 | -{3,4-Benzopyrene}- Same |
| p-Benzoquinone | 106-51-4 | -{1,4-cyclohexadienedione}- 2,5-Cyclohexadiene- |
| | | 1,4-dione |
| Benzotrichloride | 98-07-7 | -{Benzene, trichloromethyl-}- Benzene, |
| | | (trichloromethyl)- |
| Benzyl chloride | 100-44-7 | -{-Benzene, (chloromethyl)--}- |
| Beryllium and compounds, N.O.S. | 7440-41-7 | Beryllium |
| -Bis(2-chloroethoxy)methane-Bis(2- | 111-91-1 | -{-Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro- |
| chloromethoxy)ethane | | -}- |
| Bis(2-chloroethyl) ether | 111-44-4 | -{-Ethane, 1,1'-oxybis[2-chloro--}- |
| -N,N-Bis(2-chloroethyl)-2- | | {chlornaphazine}- |
| napthylamine | | |
| Bis(2-chloroisopropyl) ether | 39638-32-9 | -{-Propane, 2,2'-oxybis[2-chloro]--}- |
| Bis(chloromethyl) ether | 542-88-1 | -{-Methane, oxybis[chloro--]-}- |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | -{-1,2-Benzenedicarboxylic acid, bis(2- |
| | | ethylhexyl) ester-}- |
| Bromoacetone | 598-31-2 | -{-2-Propanone, 1-bromo--}- |
| -Bromomethane | | {methyl bromide}- |
| 4-Bromophenyl phenyl ether | 101-55-3 | -{-Benzene, 1-bromo-4-phenoxy--}- |
| Brucine | 357-57-3 | -{-Strychnidin-10-one, 2,3-dimethoxy--}- |
| -2-Butanone peroxide | | {methyl ethyl ketone, peroxide}- |
| Butyl benzyl phthalate | 85-68-7 | -{-1,2-Benzenedicarboxylic acid, butyl |
| | | phenylmethyl ester-}- |
| -2-sec-Butyl-4,6-dinitrophenol (DNBP) | | {phenol, 2,4-dinitro-6-(1-methylpropyl)-}- |
| Cacodylic acid | 75-80-5 | Arsenic acid, dimethyl- |
| Cadmium and compounds, N.O.S. | 7440-43-9 | Cadmium |
| Calcium chromate | 13765-19-0 | -{-Chromic acid, calcium salt-}- |
| Calcium cyanide | 592-01-8 | Same |
| Carbon disulfide | 75-15-1 | -{-Carbon bisulfide-}- |
| Carbon oxyfluoride | 353-50-4 | -{Carbonyl fluoride}- Carbonic difuoride |
| Carbon tetrachloride | 56-23-5 | Methane, tetrachloro- |
| Chloral | 75-87-6 | -{-Acetaldehyde, trichloro--}- |

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| Chlorambucil | 305-03-3 | -{Butanoic acid, 4-[bis(2-chloroethyl)amino]benzene-}- Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino- |
| Chlordane, -{-alpha and gamma isomers-}- | 57-74-9 | -{4,7-Methanoindan,1,2,4,5,6,7,8,8-octachloro-3,4,7,7a-tetrahydro-} {alpha and gamma isomers}- 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro- |
| Chlorinated benzenes, N.O.S. | | |
| Chlorinated ethane, N.O.S. | | |
| Chlorinated fluorocarbons, N.O.S. | | |
| Chlorinated naphthalene, N.O.S. | | |
| Chlorinated phenol, N.O.S. | | |
| Chlornaphazine | 494-03-1 | 2-Naphthalenamine, N,N-bis(2-chloroethyl)- |
| Chloroacetaldehyde | 107-20-0 | -{-Acetaldehyde, chloro--}- |
| Chloroalkyl ethers, N.O.S. | | |
| p-Chloroaniline | 106-47-8 | -{Benzeneamine, 4-chloro-}- Benzenamine, 4-chloro- |
| Chlorobenzene | 108-90-7 | -{-Benzene, chloro--}- |
| Chlorobenzilate | 510-15-6 | -{-Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-, ethyl ester-}- |
| -2-Chloro-1,3-butadiene | | {Chloroprene}- |
| p-Chloro-m-cresol | 59-50-7 | -{-Phenol, 4-chloro-3-methyl--}- |
| 1-Chloro-2,3-epoxypropane | 106-89-8 | -{Oxirane, 2-(chloromethyl)-}- Oxirane, (chloromethyl)- |
| 2-Chloroethyl vinyl ether | 110-75-8 | -{-Ethene, (2-chloroethoxy)--}- |
| Chloroform | 67-66-3 | -{-Methane, trichloro--}- |
| -Chloromethane | | Methyl chloride}- |
| Chloromethyl methyl ether | 107-30-2 | -{-Methane, chloromethoxy--}- |
| -2-Chloronaphthalene | | {Naphthalene, beta-chloro-}- |
| beta-Chloronaphthalene | 91-58-7 | Naphthalene, 2-chloro- |
| -2-Chlorophenol | | {Phenol, o-chloro-}- |
| o-Chlorophenol | 95-57-8 | (Phenol, 2-chloro-) |
| 1-(o-Chlorophenyl)thiourea | 5344-82-1 | -{-Thiourea, (2-chlorophenyl)--}- |
| -3-Chloropropene | | {Allyl chloride}- |
| Chloroprene | 126-99-8 | 2-Chloro-1,3-butadiene |
| 3-Chloropropionitrile | 542-76-7 | -{-Propanenitrile, 3-chloro--}- |
| Chromium and compounds, N.O.S. | 7440-47-3 | Chromium |
| Chrysene | 218-01-9 | -{1,2-benzphenanthrene}- Same |
| Citrus red No. 2 | 6358-53-8 | -{2-Naphthol, 1-[(2,5-dimethoxyphenyl)azo]-}- 2-Naphthalenol, 1-[(2,5-dimethoxyphenyl)azo]- |
| Coal tars | 8005-45-2 | |
| Copper cyanide | 544-92-3 | Copper cyanide CuCN |
| Creosote | 8001-58-9 | -{Creosote, wood}- Same |
| Cresols (Cresylic acid) | 1319-77-3 | -{-Phenol, methyl--}- |
| Crotonaldehyde | 4170-30-3 | -{-2-Butenal-}- |
| Cyanides (soluble salts and complexes), N.O.S. | | |
| Cyanogen | 460-19-5 | -{-Ethanedinitrile-}- |
| Cyanogen bromide | 506-68-3 | -{Bromine cyanide}- Same |
| Cyanogen chloride | 506-77-4 | -{Chlorine cyanide}- Same |

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| Cycasin | 14901-08-7 | -{-Beta-D-glucopyranoside, (methyl-ONN-azoxy)methyl--}- |
| 2-Cyclohexyl-4,6-dinitrophenol | 131-89-5 | -{-Phenol, 2-cyclohexyl-4,6-dinitro--}- |
| Cyclophosphamide | 50-18-0 | -{2H-1,3,2-Oxazaphosphorine, 2-[bis(2-chloroethyl)amino]tetrahydro-, 2-oxide-}- 2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide |
| 2,4-D, salts and esters | 94-75-7 | Acetic acid, (2,4-dichlorophenoxy)-, salts and esters |
| Daunomycin | 20830-81-3 | -{-5,12-Naphthacenedione, (8S-cis)-8-acetyl-10-[(3-amino-2,3,6-trideoxy)-alpha-L-lyxo-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy--}- |
| DDD | 72-54-8 | -{dichlorodiphenyldichloroethane} {ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)--}- Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro- |
| DDE | 72-55-9 | -{ethylene, 1,1-dichloro-2,2-bis(4-chlorophenyl)-}- Benzene, 1,1'-(dichloroethenylidene)bis[4-chloro- |
| DDT | 50-29-3 | -{dichlorodiphenyltrichloroethane} {ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)-}- Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-chloro- |
| Diallate | 2303-16-4 | -{S-(2,3-dichloroallyl)diisopropylthiocarbamate}- Carbamothioic acid, bis(1-methylethyl)-S-(2,3-dichloro-2-propenyl) ester |
| Dibenz[a,h]acridine | 226-36-8 | -{1,2,5,6-Dibenzacridine}- Same |
| Dibenz[a,j]acridine | 224-42-0 | -{1,2,7,8-Dibenzacridine}- Same |
| Dibenz[a,h]anthracene | 53-70-3 | -{1,2,5,6-Dibenzanthracene}- Same |
| 7H-Dibenzo[c,g]carbazole | 194-59-2 | -{3,4,5,6-Dibenzcarbazole}- Same |
| Dibenzo[a,e]pyrene | 192-65-4 | -{1,2,4,5-Dibenzpyrene}- Naphtho[1,2,3,4-def]chrysene |
| Dibenzo[a,h]pyrene | 189-64-0 | -{1,2,5,6-Dibenzpyrene}- Dibenzo[b,def]chrysene |
| Dibenzo[a,i]pyrene | 189-55-9 | -{1,2,7,8-Dibenzpyrene}- Benzo[rst]pentaphene |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | -{-Propane, 1,2-dibromo-3-chloro--}- |
| -1,2-Dibromoethane {Ethylene dibromide} | | |
| Dibromomethane {Methylene bromide}- | | |
| -Di-n-butyl phthalate- Dibutylphthalate | 84-74-2 | -{-1,2-Benzenedicarboxylic acid, dibutyl ester-}- |
| o-Dichlorobenzene | 96-50-1 | -{-Benzene, 1,2-dichloro--}- |
| m-Dichlorobenzene | 541-73-1 | -{-Benzene, 1,3-dichloro--}- |
| p-Dichlorobenzene | 106-46-7 | -{-Benzene, 1,4-dichloro--}- |
| Dichlorobenzene, N.O.S. | 25321-22-6 | -{-Benzene, dichloro- -, N,O,S,}- |
| 3,3'-Dichlorobenzidine | 91-94-1 | -{-[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro--}- |
| 1,4-Dichloro-2-butene | 764-41-0 | -{-2-Butene, 1,4-dichloro--}- |
| Dichlorodifluoromethane | 75-71-8 | -{-Methane, dichlorodifluoro--}- |
| -1,1-Dichloroethane {Ethylidine dichloride} | | |
| 1,2-Dichloroethane {Ethylene dichloride}- | | |

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| -trans-1,2-Dichloroethene- 1,2-Dichloroethylene | 156-60-5 | -(1,2-Dichloroethylene)- Ethene, 1,2-dichloro-, (E)- |
| Dichloroethylene, N.O.S. | 25323-30-2 | -(Ethene, dichloro-, N,O,S,)- Dichloroethylene |
| 1,1-Dichloroethylene | 75-35-4 | -(-Ethene, 1,1-dichloro--)- |
| -Dichloromethane | | (methylene chloride)- |
| 2,4-Dichlorophenol | 120-83-2 | -(-Phenol, 2,4-dichloro--)- |
| 2,6-Dichlorophenol | 87-65-0 | -(-Phenol, 2,6-dichloro--)- |
| -2,4-Dichlorophenoxyacetic acid | | (2,4-D), salts and esters (acetic acid, 2,4-dichlorophenoxy-, salts and esters)- |
| Dichlorophenylarsine | 696-28-6 | -(Phenyl dichloroarsine)- Arsonous dichloride, phenyl- |
| Dichloropropane, N.O.S. | 26638-19-7 | -(-Propane, dichloro- -,N,O,S,)- |
| -1,2-Dichloropropane | | (propylene dichloride)- |
| Dichloropropanol, N.O.S. | 26545-73-3 | -(-Propanol, dichloro- -, N,O,S,)- |
| Dichloropropene, N.O.S. | 26952-23-8 | -(-Propene, dichloro- -, N,O,S,)- |
| 1,3-Dichloropropene | 542-75-6 | -(-1-Propene, 1,3-dichloro--)- |
| Dieldrin | 60-57-1 | -(1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo,exo-1,4:5,8-dimethanonaphthalene)- 2,7:3,6-Dimethanonaphth[2,3-b]oxirane, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1a-alpha, 2-beta, 2a-alpha, 3-beta, 6-beta, 6a-alpha, 7-beta, 7a-alpha)- |
| 1,2:3,4-Diepoxybutane | 1464-53-5 | -(-2,2'-Bioxirane-)- |
| Diethylarsine | 692-42-2 | -(-Arsine, diethyl--)- |
| 1,4-Diethyleneoxide | 123-91-1 | 1,4-Dioxane |
| N,N'-Diethylhydrazine | 1615-80-1 | -(-Hydrazine, 1,2-diethyl--)- |
| -O,O-Diethyl S-methyl ester of phosphorodithioic acid-O,O-Diethyl S-methyldithiophosphate | 3288-58-2 | -(-Phosphorodithioic acid, O,O-diethyl S-methyl ester-)- |
| -O,O-Diethylphosphoric acid, O-p-nitrophenyl ester-Diethyl-p-nitrophenyl phosphate | 311-45-5 | -(Phosphoric acid, diethyl p-nitrophenyl ester)- Phosphoric acid, diethyl-4-nitrophenyl ester |
| Diethylphthalate | 84-66-2 | -(-1,2-Benzenedicarboxylic acid, diethyl ester-)- |
| O,O-Diethyl O--2--pyrazinyl phosphorothioate | 297-97-2 | -(-Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester-)- |
| Diethylstilbestrol | 56-53-1 | -(4,4'-stilbenediol, alpha,alpha-diethyl, bis(dihydrogen phosphate, (E)-)- Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-, (E)- |
| Dihydrosafrole | 94-58-6 | -(Benzene, 1,2-methylenedioxy-4-propyl-)- 1,3-Benzodioxole, 5-propyl- |
| 3,4-Dihydroxy-alpha-(methylamino)methyl benzyl alcohol | 329-65-7 | +-)-1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino)ethyl]--)- |
| Diisopropylfluorophosphate (DFP) | 55-91-4 | -(-Phosphorofluoridic acid, bis(1-methylethyl) ester-)- |
| Dimethoate | 60-51-5 | -(-Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester-)- |

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| 3,3'-Dimethoxybenzidine | 119-90-4 | -{-[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy--}- |
| p-Dimethylaminoazobenzene | 60-11-7 | -{-Benzenamine, N,N-dimethyl-4-(phenylazo)--}- |
| 7,12-Dimethylbenz[a]anthracene | 57-97-6 | -{1,2--Benz[a]anthracene, 7,12-dimethyl--}- |
| 3,3'-Dimethylbenzidine | 119-93-7 | -{-[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl--}- |
| Dimethylcarbamoyl chloride | 79-44-7 | -{Carbamoyl chloride, dimethyl-}- Carbamic chloride, dimethyl- |
| 1,1-Dimethylhydrazine | 57-14-7 | -{-Hydrazine, 1,1-dimethyl--}- |
| 1,2-Dimethylhydrazine | 540-73-8 | -{-Hydrazine, 1,2-dimethyl--}- |
| 3,3-Dimethyl-1-(methylthio)-2-butanone, O-[(methylamino)carbonyl] oxime | | (thiofanox)- |
| alpha,alpha-Dimethylphenethylamine | 122-09-8 | -{Ethanamine, 1,1-dimethyl-2-phenyl-}- Benzeneethanamine, alpha, alpha-dimethyl- |
| 2,4-Dimethylphenol | 105-87-9 | -{-Phenol, 2,4-dimethyl--}- |
| Dimethylphthalate | 131-11-3 | -{-1,2-Benzenedicarboxylic acid, dimethyl ester-}- |
| Dimethyl sulfate | 77-78-1 | -{-Sulfuric acid, dimethyl ester-}- |
| Dinitrobenzene, N.O.S. | 25154-54-5 | -{-Benzene, dinitro--, N,O,S,}- |
| 4,6-Dinitro-o-cresol and salts | 534-52-1 | -{Phenol, 2,4-dinitro-6-methyl-, and salts}- Phenol, 2-methyl-4,6-dinitro-, and salts |
| 2,4-Dinitrophenol | 51-28-5 | -{-Phenol, 2,4-dinitro--}- |
| 2,4-Dinitrotoluene | 121-14-2 | -{-Benzene, 1-methyl-2,4-dinitro--}- |
| 2,6-Dinitrotoluene | 606-20-2 | -{Benzene, 1-methyl-2,6-dinitro-}- Benzene, 2-methyl-1,3-dinitro- |
| Dinoseb | 88-85-7 | Phenol, 2-(1-methylpropyl)-4,6-dinitro- |
| Di-n-octyl phthalate | 117-84-0 | -{-1,2-Benzenedicarboxylic acid, dioctyl ester-}- |
| 1,4-Dioxane | | (1,4-Diethylene oxide)- |
| Diphenylamine | 122-39-4 | -{-Benzenamine, N-phenyl--}- |
| 1,2-Diphenylhydrazine | 122-66-7 | -{-Hydrazine, 1,2-diphenyl--}- |
| Di-n-propylnitrosamine | 621-64-7 | -{N-nitroso-di-n-propylamine}- 1-Propanamine, N-nitroso-N-propyl- |
| Disulfoton | 298-04-4 | -{O,O-diethyl S-[2-(ethylthio)ethyl] phosphorodithioate- Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester |
| 2,4--Dithiobiuret | 541-53-7 | -{-Thioimidodicarbonic diamide-}- |
| Endosulfan | 115-29-7 | -{5-norbornene, 2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite}- 6,9-Methano-2,4,3-benzodioxathiepen, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide |
| Endothal | 145-73-3 | 7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid |
| Endrin- and metabolites- | 72-20-8 | -{1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo,endo-1,4:5,8-dimethanonaphthalene, and metabolites}- 2,7:3,6-Dimethanonaphth[2,3-b]oxirane, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1a-alpha, 2-beta, 2a-beta, 3-alpha, 6-alpha, 6a-beta, 7-beta, 7a-alpha)- |
| Ethyl carbamate (urethane) | 51-79-6 | -{-Carbamic acid, ethyl ester-}- |

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| Ethyl cyanide | 107-12-0 | -{-Propanenitrile-}- |
| Ethylenebisdithiocarbamic acid, salts and esters | 111-54-6 | -{1,2-Ethanediylbiscarbamodithioic acid; salts and esters}- Carbamodithioic acid, 1,2-ethanediylbis-, salts and esters |
| Ethylene dibromide | 106-93-4 | Ethane, 1,2-dibromo- |
| Ethylene dichloride | 107-06-2 | Ethane, 1,2-dichloro- |
| Ethylene glycol monoethyl ether | 110-80-5 | -{-Ethanol, 2-ethoxy--}- |
| Ethyleneimine | 151-56-4 | -{-Aziridine-}- |
| Ethylene oxide | 75-21-8 | -{-Oxirane-}- |
| Ethylenethiourea | 96-45-7 | -{-2-Imidazolidinethione-}- |
| Ethylidine dichloride | 75-34-3 | Ethane, 1,1-dichloro- |
| Ethyl methacrylate | 97-63-2 | -{-2-Propenoic acid, 2-methyl-, ethyl ester-}- |
| Ethyl methanesulfonate | 62-50-0 | -{-Methanesulfonic acid, ethyl ester-}- |
| Famphur | 52-85-7 | Phosphorothioc acid, O-[4-[(dimethylamino)sulfonyl]phenyl] O,O-dimethyl ester |
| Fluoranthene | 206-44-0 | -{Benzo[j,k]fluorene}- Same |
| Fluorine | 7782-41-4 | Same |
| 2-Fluoroacetamide | 640-19-7 | -{-Acetamide, 2-fluoro--}- |
| Fluoroacetic acid, sodium salt | 62-74-8 | -{-Acetic acid, fluoro-, sodium salt-}- |
| Formaldehyde | 50-00-0 | -{methylene oxide}- Same |
| Formic acid | | {methanoic acid} |
| Glycidylaldehyde | 765-34-4 | -{1-propanal, 2,3-epoxy-}- Oxiranecarboxaldehyde |
| Halomethane, N.O.S. | | |
| Heptachlor | 76-44-8 | -{-4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro--}- |
| Heptachlor epoxide -{alpha, beta and gamma isomers}- | 1024-57-3 | -{4,7-methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7-tetrahydro-, alpha, beta and gamma isomers}- 2,5-Methano-2H-indeno[1,2b]oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-, alpha, beta and gamma isomers) |
| Hexachlorobenzene | 118-74-1 | -{-Benzene, hexachloro-) |
| Hexachlorobutadiene | 87-68-3 | -{-1,3-Butadiene, 1,2,2,3,4,4-hexachloro--}- |
| -Hexachlorocyclohexane {all isomers} | | {lindane and isomers}- |
| Hexachlorocyclopentadiene | 77-47-4 | -{Cyclopentadiene, hexachloro-}- 1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro- |
| Hexachlorodibenzo-p-dioxins | | |
| Hexachlorodibenzofurans | | |
| Hexachloroethane | 67-72-1 | -{-Ethane, hexachloro--}- |
| -1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-endo,endo-dimethanonaphthalene | | {hexachlorohexahydro-endo,endo-dimethanonaphthalene}- |
| Hexachlorophene | 70-30-4 | -{2,2'-methylenebis{3,4,6-trichlorophenol}}- Phenol, 2,2'-methylenebis[3,4,6-trichloro- |
| Hexachloropropene | 1888-71-7 | -{-1-Propene, hexachloro--}- |
| Hexaethyltetraphosphate | 757-58-4 | -{-Tetraphosphoric acid, hexaethyl ester-}- |
| Hydrazine | 302-01-2 | -{diamine}- Same |
| Hydrogen cyanide | 74-90-8 | Hydrocyanic acid -{Hydrogen cyanide}- |
| Hydrogen fluoride | 7664-39-3 | Hydrofluoric acid -{Hydrogen fluoride}- |
| Hydrogen sulfide | 7783-06-4 | Same |
| -Hydroxydimethylarsine oxide | | {Cacodylic acid}- |

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| Indeno(1,2,3-cd) pyrene | 193-39-5 | -{1,10-(1,2-Phenylene)pyrene}- Same |
| -Iodomethane | | {Methyl iodide}- |
| Iron dextran | 9004-66-4 | -{Ferric dextran}- Same |
| -Isocyanic acid, methyl ester | | {Methyl isocyanate}- |
| Isobutyl alcohol | 78-83-1 | -{-1-Propanol, 2-methyl--}- |
| Isodrin | 465-73-6 | 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1-alpha, 4-alpha, 4a-beta, 5-beta, 8-beta, 8a-beta)- |
| Isosafrole | 120-58-1 | -{Benzene, 1,2-methylenedioxy-4-allyl-}- 1,3-Benzodioxole, 5-(1-propenyl)- |
| Kepone | 143-50-0 | -{Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta[cd]pentalen-2-one}- 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro- |
| Lasiocarpine | 303-34-4 | -{-2-Butenoic acid, 2-methyl-, 7-[(2,3-dihydroxy-2-(1-methoxyethyl)-3-methyl-1-oxobutoxy)methyl]-2,3,5,7a-tetrahydro-1H-pyrrolizin-1-yl ester-}-, [1S-[1-alpha(Z),7(2S, 3R),7a-alpha]]- |
| Lead and compounds, N.O.S. | 7439-92-1 | |
| Lead acetate | 301-04-2 | -{-Acetic acid, lead (II) salt-}- |
| Lead phosphate | 7446-27-7 | -{-Phosphoric acid, lead (II) salt-}- |
| Lead subacetate | 1335-32-6 | -{-Lead, bis(acetato-O)tetrahydroxytri--}- |
| Lindane | 58-89-9 | Cyclohexane, 1,2,3,4,5,6-hexachloro- |
| Maleic anhydride | 108-31-6 | -{-2,5-Furandione-}- |
| Maleic hydrazide | 123-33-1 | -{1,2-dihydro-3,6-pyridazinedione}- 3,6-Pyridazinedione, 1,2-dihydro- |
| Malononitrile | 109-77-3 | -{-Propanedinitrile-}- |
| Melphalan | 148-82-3 | -{Alanine, 3-[p-bis(2-chloroethyl)amino]phenyl-, L-}- L-Phenylalanine, 4-[bis(2-chloroethyl)amino]- |
| Mercury fulminate | 628-86-4 | -{-Fulminic acid, mercury (II) salt-}- |
| Mercury and compounds, N.O.S. | 7439-97-6 | Same |
| Methacrylonitrile | 126-96-7 | -{2-Propenenitrile, 2-methyl-}- 2-Propanenitrile, 2-methyl- |
| -Methanethiol | | {Thiomethanol}- |
| Methapyrilene | 91-80-5 | -{Pyridine, 2-[(2-dimethylamino)ethyl]-2-thenylamino-}- 1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)- |
| Metholmyl | 16752-77-5 | -{-Acetimidic acid, N-[(methylcarbamoyl)oxy]thio-, methyl ester-}- |
| Methoxychlor | 72-43-5 | -{Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)-}- Benzene, 1,1'-(2,2,2-trichloroethylidene)[4-methoxy- |
| -2-Methylaziridine {1,2-Propylenimine} | | |
| 3-Methylcholanthrene {Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-}- | | |
| Methyl bromide | 74-83-9 | Methane, bromo- |
| Methyl chloride | 74-87-3 | Methane, chloro- |
| Methylchlorocarbonate | 79-22-1 | -{Carbonochloridic acid, methyl ester}- Carbonchloridic acid, methyl ester |
| Methyl chloroform | 71-55-6 | Ethane, 1,1,1-trichloro- |

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| 3-Methylcholanthrene | 56-49-5 | Benz[j]aceanthrylene, 1,2-dihydro-3-methyl- |
| 4,4'-Methylenebis(2-chloroaniline) | 101-14-4 | -(4,4'-Methylenebis(2-chlorobenzenamine))- Benzenamine, 4,4'-methylenebis[2-chloro- |
| Methylene bromide | 74-95-3 | Methane, dibromo- |
| Methylene chloride | 75-09-2 | Methane, dichloro- |
| Methyl ethyl ketone (MEK) | 78-93-3 | -(-2-Butanone-)- |
| Methyl ethyl ketone peroxide | 1338-23-4 | 2-Butanone, peroxide |
| Methyl hydrazine | 60-34-4 | -(-Hydrazine, methyl--)- |
| Methyl iodide | 74-88-4 | Methane, iodo- |
| Methyl isocyanate | 624-83-9 | Methane, isocyanato- |
| 2-Methyllactonitrile | 75-86-5 | -(-Propanenitrile, 2-hydroxy-2-methyl--)- |
| Methyl methacrylate | 80-62-6 | -(-2-Propenoic acid, 2-methyl-, methyl ester-)- |
| Methyl methanesulfonate | 66-27-3 | -(-Methanesulfonic acid, methyl ester-)- |
| -2-Methyl-2-(methylthio)propionaldehyde-O-(methylcarbonyl) oxime (Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino)carbonyl]oxime) | | |
| N-Methyl-N'-nitro-N-nitrosoguanidine (guanidine, N-nitroso-N-methyl-N'-nitro-)- | | |
| Methyl parathion | 298-00-0 | -(O,O-dimethyl O-(4-nitrophenyl) phosphorothioate)- Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester |
| Methylthiouracil | 58-04-2 | -(4-[1H]-4-(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo--)- |
| Mitomycin C | 50-07-7 | Azirino(2',3':3,4)pyrrolo(1,2-a)indole-4,7-dione, 6-amino-8-[((aminocarbonyl)oxy)methyl]-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-methyl-, [1a-R-(1a-alpha, 8-beta, 8a-alpha, 8b-alpha)]- |
| MNNG | 70-25-7 | Guanidine, N-methyl-N'-nitro-N-nitroso- |
| Mustard gas | 505-60-2 | -(Sulfide, bis(2-chloroethyl)-)- Ethane, 1,1'-thiobis[2-chloro- |
| Naphthalene | 91-20-3 | Same |
| 1,4-Naphthoquinone | 130-15-4 | -(-1,4-Naphthalenedione-)- |
| -1-Naphthylamine (-alpha-Naphthylamine-)- | 134-32-7 | 1-Naphthalenamine |
| -2-Naphthylamine (-beta-Naphthylamine-)- | 91-59-8 | 2-Naphthalenamine |
| -1-Naphthyl-2-thiourea- alpha-Naphthylthiourea | 86-88-4 | -(-Thiourea, 1-naphthalenyl--)- |
| Nickel and compounds, N.O.S. | 7440-02-0 | Same |
| Nickel carbonyl | 13463-39-3 | -(Nickel tetracarbonyl)- Nickel carbonyl, (T-4)- |
| Nickel cyanide | 557-19-7 | -(nickel (II) cyanide)- Same |
| Nicotine and salts | 54-11-5 | -(-Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-, and salts-)- |
| Nitric oxide | 10102-43-9 | -(Nitrogen (II) oxide)- Nitrogen oxide NO |
| p-Nitroaniline | 100-01-6 | -(-Benzenamine, 4-nitro--)- |
| Nitrobenzene | 98-95-3 | -(-Benzene, nitro--)- |
| Nitrogen dioxide | 10102-44-0 | -(Nitrogen (IV) oxide)- Nitrogen oxide $NO_2$ |
| Nitrogen mustard and hydrochloride salt | 51-75-2 | -(-Ethanamine, 2-chloro-, N-(2-chloroethyl)-N-methyl-, and hydrochloride salt-)- |
| Nitrogen mustard N-oxide and hydrochloride salt | | -(-Ethanamine, 2-chloro-, N-(2-chloroethyl)-N-methyl-, N-oxide, and hydrochloride salt-)- |

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| Nitroglycerin | 55-63-0 | -{-1,2,3-Propanetriol, trinitrate-}- |
| -4--p-Nitrophenol | 100-02-7 | -{-Phenol, 4-nitro--}- |
| 2-Nitropropane | 79-46-9 | -{-Propane, 2-nitro--}- |
| 4-Nitroquinoline-1-oxide | 56-57-5 | -{-Quinoline, 4-nitro-1-oxide--}- |
| Nitrosamine, N.O.S. | 35576-91-1 | |
| N-Nitrosodi-n-butylamine | 924-16-3 | -{-1-Butanamine, N-butyl-N-nitroso--}- |
| N-Nitrosodiethanolamine | 1116-54-7 | -{-Ethanol, 2,2'-(nitrosoimino)bis--}- |
| N-Nitrosodiethylamine | 55-18-5 | -{-Ethanamine, N-ethyl-N-nitroso--}- |
| N-Nitrosodimethylamine | 62-75-9 | -{Dimethylnitrosamine}- Methamine, N-methyl-N-nitroso- |
| N-Nitroso-N-ethylurea | 759-73-9 | -{Carbamide, N-ethyl-N-nitroso--)- Urea, N-ethyl-N-nitroso- |
| N-Nitrosomethylethylamine | 10595-95-6 | -{-Ethanamine, N-methyl-N-nitroso--}- |
| N-Nitroso-N-methylurea | 684-93-5 | -{Carbamide, N-methyl-N-nitroso-}- Urea, N-methyl-N-nitroso- |
| N-Nitroso-N-methylurethane | 615-53-2 | -{-Carbamic acid, methylnitroso-, ethyl ester-}- |
| N-Nitrosomethylvinylamine | 4549-40-0 | -{Ethenamine, - Vinylamine, N-methyl-N-nitroso--}- |
| N-Nitrosomorpholine | 59-89-2 | -{-Morpholine, N-nitroso--}- |
| N-Nitrosonornicotine | 16543-55-8 | -{Nornicotine, N-nitroso-}- Pyridine, 3-(1-nitroso-2-pyrrolidinyl)-, (S)- |
| N-Nitrosopiperidine | 100-75-4 | -{Pyridine, hexahydro-, N-nitroso-}- Piperidine, 1-nitroso- |
| N-Nitrosopyrrolidine | 930-55-2 | -{Pyrrole, tetrahydro-, N-nitroso-}- Pyrrolidine, 1-nitroso- |
| N-Nitrososarcosine | 13256-22-9 | -{Sarcosine, N-nitroso-}- Glycine, N-methyl-N-nitroso- |
| 5-Nitro-o-toluidine | 99-55-8 | -{-Benzenamine, 2-methyl-5-nitro--}- |
| Octamethylpyrophosphoramide | 152-16-9 | -{-Diphosphoramide, octamethyl--}- |
| Osmium tetroxide | 20816-12-0 | -{Osmium (VIII) oxide}- Osmium oxide $OsO_4$ (endothal)- |
| -7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid | | |
| Paraldehyde | 123-63-7 | -{-1,3,5-Trioxane, 2,4,6-trimethyl--}- |
| Parathion | 56-38-2 | -{Phosphorothioic acid, O,O-diethyl O-(p-nitrophenyl) ester}- Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester |
| Pentachlorobenzene | 808-93-5 | -{-Benzene, pentachloro--}- |
| Pentachlorodibenzo-p-dioxins | | |
| Pentachlorodibenzofurans | | |
| Pentachloroethane | 76-01-7 | -{-Ethane, pentachloro--}- |
| Pentachloronitrobenzene (PCNB) | 82-68-8 | -{-Benzene, pentachloronitro--}- |
| Pentachlorophenol | 87-86-5 | -{-Phenol, pentachloro--}- |
| Phenacetin | 62-44-2 | -{-Acetamide, N-(4-ethoxyphenyl)--}- |
| Phenol | 108-95-2 | -{Benzene, hydroxy--)- Same |
| Phenylenediamine | 25265-76-3 | -{-Benzenediamine-}- |
| Phenylmercury acetate | 62-38-4 | -{Mercury, acetatophenyl-}- Mercury, (acetato-O)phenyl- |
| -N--Phenylthiourea | 103-85-5 | -{-Thiourea, phenyl-) |

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| Phosgene | 75-44-5 | -(Carbonyl chloride)- Carbonic dichloride |
| Phosphine | 7803-51-2 | -(Hydrogen phosphide)- Same |
| Phorate | 298-02-2 | Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl] ester -(phorate) Phosphorothioic acid, O,O-dimethyl O-[p-((dimethylamino) sulfonyl)phenyl] ester (Famphur)- |
| Phthalic acid esters, N.O.S. | | -(Benzene, 1,2-dicarboxylic acid, esters, N,O,S,)- |
| Phthalic anhydride | 85-44-9 | -(1,2-Benzenedicarboxylic acid anhydride)- 1,3-Isobenzofurandione |
| 2-Picoline | 109-06-8 | -(-Pyridine, 2-methyl--)- |
| Polychlorinated biphenyl, N.O.S. | | |
| Potassium cyanide | 151-50-8 | Same |
| Potassium silver cyanide | 506-61-6 | -(Argentate(1-), dicyano-, potassium)- Argentate(1-), bis(cyano-C)-, potassium |
| Pronamide | 23950-58-5 | -(3,5-Dichloro-N-(1,1-dimethyl-2-propynyl)benzamide)- Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)- |
| 1,3-Propane sultone | 1120-71-4 | -(-1,2-Oxathiolane, 2,2-dioxide-)- |
| n-Propylamine | 107-10-8 | -(-1-Propanamine-)- |
| -Propylthiouracil | | (2,3-Dihydro-6-propyl-2-thioxo-4(1H)-pyrimidinone) |
| 2-Propyn-1-ol (-Propargyl alcohol-)- | 107-19-7 | 2-Propyn-1-ol |
| Propylene dichloride | 78-87-5 | Propane, 1,2-dichloro- |
| Propylenimine | 75-55-8 | Aziridine, 2-methyl- |
| Propylthiouracil | 51-52-5 | 4-(1H)-Pyrimidinone, 2,3-dihydro-6-propyl-2-thioxo- |
| Pyridine | 110-86-1 | Same |
| Reserpine | 50-55-5 | -(-Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester-)- |
| Resorcinol | 108-46-3 | -(-1,3-Benzenediol-)- |
| Saccharin and salts | 81-07-2 | -(1,2-Benzoisothiazolin-3-one, 1,1-dioxide, and salts)- 1,2-Benzisothiazol-3-(2H)-one, 1,1-dioxide and salts |
| Safrole | 94-59-7 | -(Benzene, 1,2-methylenedioxy-4-allyl-)- 1,3-Benzodioxole, 5-(2-propenyl)- |
| -Selenious acid (-Selenium dioxide-)- | 7783-00-8 | Selenious acid |
| Selenium and compounds, N.O.S. | 7782-49-2 | Selenium |
| Selenium sulfide | 7446-34-6 | -(Sulfur selenide)-Same |
| Selenourea | 630-10-4 | -(Carbamimidoselenoic acid)-Same |
| Silver and compounds, N.O.S. | 7440-22-4 | Silver |
| Silver cyanide | 506-64-9 | Same |
| Silvex (2,4,5-TP) | 93-72-1 | Propanoic acid, 2-(2,4,5-trichlorophenoxy)- |
| Sodium cyanide | 143-33-9 | Same |
| Streptozotocin | 18883-66-4 | -(-D-Glucopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)--)- |
| Strontium sulfide | 1314-96-1 | Same |
| Strychnine and salts | 57-24-9 | -(-Strychnidin-10-one, and salts-)- |
| TCDD | 1746-01-6 | Dibenzo[b,e][1,4]dioxin, 2,3,7,8-tetrachloro- |
| 1,2,4,5-Tetrachlorobenzene | 95-94-3 | -(-Benzene, 1,2,4,5-tetrachloro--)- |

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| Tetrachlorodibenzo-p-dioxins | | |
| -2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) | | (dibenzo-p-dioxin, 2,3,7,8-tetrachloro-)- |
| Tetrachlorodibenzofurans | | |
| Tetrachloroethane, N.O.S. | 25322-20-7 | -(-Ethane, tetrachloro-, N.O.S.-)- |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | -(-Ethane, 1,1,1,2-tetrachloro--)- |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | -(-Ethane, 1,1,2,2-tetrachloro--)- |
| Tetrachloroethylene | 127-18-4 | Ethene, tetrachloro- -Tetrachloroethene (Perchloroethylene)- |
| -Tetrachloromethane | | (Carbon tetrachloride)- |
| 2,3,4,6-Tetrachlorophenol | 58-90-2 | -(-Phenol, 2,3,4,6-tetrachloro--)- |
| Tetraethyldithiopyrophosphate | 3689-24-5 | -(Dithiopyrophosphoric acid, tetraethyl ester)- Thiodiphosphoric acid, tetraethyl ester |
| Tetraethyl lead | 78-00-2 | -(-Plumbane, tetraethyl--)- |
| Tetraethylpyrophosphate | 107-49-3 | -(Pyrophosphoric acid, tetraethyl ester)- Diphosphoric acid, tetraethyl ester |
| Tetranitromethane | 509-14-8 | -(-Methane, tetranitro--)- |
| Thallium and compounds, N.O.S. | 7440-28-0 | Thallium |
| Thallic oxide | 1314-32-5 | -(-Thallium (III) oxide-)- |
| Thallium (I) acetate | 563-68-8 | -(-Acetic acid, thallium (I) salt-)- |
| Thallium (I) carbonate | 6533-73-9 | -(-Carbonic acid, dithallium (I) salt-)- |
| Thallium (I) chloride | 7791-12-0 | Thallium chloride |
| Thallium (I) nitrate | 10102-45-1 | -(-Nitric acid, thallium (I) salt-)- |
| Thallium selenite | 12039-52-0 | Thallium selenide |
| Thallium (I) sulfate | 10031-59-1 | -(-Sulfuric acid, thallium -(I)-salt-)- |
| Thioacetamide | 62-55-5 | -(-Ethanethioamide-)- |
| Thiofanox | 39196-18-4 | 2-Butanone, 3,3-dimethyl-1-(methylthio)-, O-[(methylamino)carbonyl]oxime |
| Thiomethanol | 74-93-1 | Methanethiol |
| Thiophenol | 108-98-5 | Benzenethiol |
| Thiosemicarbazide | 79-19-6 | -(-Hydrazinecarbothioamide-)- |
| Thiourea | 62-56-6 | -(Carbamide, thio-)- Same |
| Thiuram | 137-26-8 | -(Bis(dimethylthiocarbamoyl) disulfide)- Thioperoxydicarbonic diamide, tetramethyl- |
| Toluene | 108-88-3 | -(-Benzene, methyl--)- |
| Toluenediamine- ; N,O,S,- | 25376-45-8 | -(Diaminotoluene N,O,S,)- Benzenediamine, ar-methyl- |
| 2,4-Toluenediamine | 95-80-7 | 1,3-Benzenediamine, 4-methyl- |
| 2,6-Toluenediamine | 823-40-5 | 1,3-Benzenediamine, 2-methyl- |
| 3,4-Toluenediamine | 496-72-0 | 1,2-Benzenediamine, 4-methyl- |
| Toluene diisocyanate | 584-84-9 | -(Benzene, 1,3-diisocyanatomethyl--)- Benzene, 2,4-diisocyanato-1-methyl- |
| p-Toluidine | 106-49-0 | Benzenamine, 4-methyl- |
| o-Toluidine hydrochloride | 636-21-5 | -(-Benzeneamine, 2-methyl-, hydrochloride-)- |
| Toxaphene | 8001-35-2 | -(Camphene, octachloro-)- Same |
| -Tribromomethane | | (Bromoform)- |
| 1,2,4-Trichlorobenzene | 120-82-1 | -(-Benzene, 1,2,4-trichloro--)- |
| -1,1,1-Trichloroethane | | (Methyl chloroform)- |

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| 1,1,2-Trichloroethane | 79-00-5 | -{-Ethane, 1,1,2-trichloro--}- |
| Trichloroethylene | 79-01-6 | -{Trichloroethylene}- Ethene, trichloro- |
| Trichloromethanethiol | 75-70-7 | -{-Methanethiol, trichloro--}- |
| Trichloromonofluoromethane | 75-69-4 | -{-Methane, trichlorofluoro--}- |
| 2,4,5-Trichlorophenol | 95-95-4 | -{-Phenol, 2,4,5-trichloro--}- |
| 2,4,6-Trichlorophenol | 88-06-2 | -{-Phenol, 2,4,6-trichloro--}- |
| -2,4,5-Trichlorophenoxyacetic acid {-2,4,5-T-}- | 93-76-5 | -{Acetic acid, 2,4,5-trichlorophenoxy-}- Acetic acid, (2,4,5-trichlorophenoxy)-- 2,4,5-Trichlorophenoxypropionic acid {2,4,5-TP} {silvex} {Propionic acid, 2-{2,4,5-trichlorophenoxy}-}- |
| Trichloropropane, N.O.S. | | -{Propane, trichloro-, N,O,S,}- |
| 1,2,3-Trichloropropane | 96-18-4 | -{-Propane, 1,2,3-trichloro--}- |
| O,O,O-Triethyl phosphorothioate | 126-68-1 | -{-Phosphorothioic acid, O,O,O-triethyl ester-}- |
| sym-Trinitrobenzene | 99-35-4 | -{-Benzene, 1,3,5-trinitro--}- |
| Tris(1-aziridinyl)phosphine sulfide | 52-24-4 | -{Phosphine sulfide, tris{1-aziridinyl}-}- Aziridine, 1,1',1"-phosphinothioylidynetris- |
| Tris(2,3-dibromopropyl) phosphate | 126-72-7 | -{-1-Propanol, 2,3-dibromo-, phosphate-}- (3:1) |
| Trypan blue | 72-57-1 | -{2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis(5-amino-4-hydroxy-, tetrasodium salt}- 2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis(5-amino-4-hydroxy-, tetrasodium salt |
| -Undecamethylenediamine, N,N'-bis(2-chlorobenzylamine), dihydrochloride- Undecamethylenediamine, N,N'-bis(2-chlorobenzyl)-, dihydrochloride- | 2056-25-9 | -{N,N'-Undecamethylenebis(2-chlorobenzylamine), dihydrochloride}- Same |
| Uracil mustard | 66-75-1 | -{Uracil, 5-[bis(2-chloroethyl)amino]-}- 2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl)amino]- |
| -Vanadic acid, ammonium salt | | {Ammonium vanadate}- |
| Vanadium pentoxide | 1314-62-1 | -{-Vanadium -(V)- oxide-}- $V_2O_5$ |
| Vinyl chloride | 75-01-4 | -{-Ethene, chloro--}- |
| Warfarin | 81-81-2 | 2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)- |
| Zinc cyanide | 557-21-1 | Same |
| Zinc phosphide | 1314-84-7 | Zinc phosphide $P_2Zn_3$ |

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE G: WASTE DISPOSAL
CHAPTER I: POLLUTION CONTROL BOARD
SUBCHAPTER c: HAZARDOUS WASTE OPERATING REQUIREMENTS

PART 722
STANDARDS APPLICABLE TO GENERATORS OF HAZARDOUS WASTE

SUBPART A: GENERAL



SUBPART B: THE MANIFEST



SUBPART C: PRE-TRANSPORT REQUIREMENTS



SUBPART D: RECORDKEEPING AND REPORTING



SUBPART E: EXPORTS OF HAZARDOUS WASTE



SUBPART F: IMPORTS OF HAZARDOUS WASTE



SUBPART G: FARMERS

Section
722.170 Farmers

Appendix A Hazardous Waste Manifest

AUTHORITY: Implementing Section 22.4 and authorized by Section 27 of the Environmental Protection Act (Ill. Rev. Stat. 1985, ch. 111 1/2, pars. 1022.4 and 1027).

SOURCE: Adopted in R81-22, 43 PCB 427, at 5 Ill. Reg. 9781, effective as noted in 35 Ill. Adm. Code 700.106; amended and codified in R81-22, 45 PCB 317, at 6 Ill. Reg. 4828, effective as noted in 35 Ill. Adm. Code 700.106; amended in R82-18, 51 PCB 31, at 7 Ill. Reg. 2518, effective February 22, 1983; amended in R84-9 at 9 Ill. Reg. 11950, effective July 24, 1985; amended in R85-22 at 10 Ill. Reg. 1131, effective January 2, 1986; amended in R86-1 at 10 Ill. Reg. 14112, effective August 12, 1986; amended in R86-19 at 10 Ill. Reg. 20709, effective December 2, 1986; amended in R86-46 at 11 Ill. Reg. 13555, effective August 4, 1987; amended in R87-5 at 11 Ill. Reg. 19392, effective November 12, 1987; amended in R87-39 at 12 Ill. Reg. , effective .

SUBPART D: RECORDKEEPING AND REPORTING

Section 722.142 Exception Reporting

a) Generators of greater than 1000 kilograms of hazardous waste in a calendar month.

1) A generator of greater than 1000 kilograms of hazardous waste in a calendar month who does not receive a copy of the manifest with the handwritten signature of the owner or operator of the designated facility within 35 days of the date the waste was accepted by the initial transporter must contact the transporter ~~and/~~or the owner or operator of the designated facility to determine the status of the hazardous waste.

~~b~~ 1) A generator of greater than 1000 kilograms of hazardous waste in a calendar month must submit an Exception Report to the ~~Director if he~~Agency if the generator has not received a copy of the manifest with the handwritten signature of the owner or operator of the designated facility within 45 days of the date the waste was accepted by the initial transporter. The Exception Report must include:

~~1~~ A) A legible copy of the manifest for which the generator does not have a confirmation of delivery;

~~2~~ B) A cover letter signed by the generator or ~~his~~the generator's authorized representative explaining the efforts taken to locate the hazardous waste and the result of those efforts.

b) A generator of greater than 100 kilograms but less than 1000 kilograms of hazardous waste in a calendar month who does not receive

a copy of the manifest with the handwritten signature of the owner or operator of the designated facility within 60 days of the date the waste was accepted by the initial transporter must submit a legible copy of the manifest, with some indication that the generator has not received confirmation of delivery, to the Agency.

(Board Note: The submission need be only a handwritten or typed note on the manifest itself, or on an attached sheet of paper, stating that the returned copy was not received.)

(Source: Amended at 12 Ill. Reg. , effective )

Section 722.144 Special Requirements for Generators of between 100 and 1000 kilograms per month

A generator ~~who generates~~ of greater than 100 kilograms but less than 1000 kilograms of hazardous waste in a calendar month is ~~exempt from the requirements of this Subpart, except for the recordkeeping requirements in~~ subject only to the following requirements in this Subpart:

a) Section 722.140(a),(c) and (d), recordkeeping;

b) Section 722.142(b), exception reporting; and

c) ~~and the requirements of~~ Section 722.143, additional reporting.

(Source: Amended at 12 Ill. Reg. , effective )

SUBPART G: FARMERS

Section 722.170 Farmers

A farmer disposing of waste pesticides from ~~his~~ the farmer's own use which are hazardous wastes is not required to comply with the standards in this Part or other standards in 35 Ill. Adm. Code 702, 703, 724, ~~or~~ 725 or 728 for ~~such~~ those wastes, provided ~~he~~ the farmer triple rinses each emptied pesticide container in accordance with 35 Ill. Adm. Code 721.107(b)(3) and disposes of the pesticide residues on ~~his~~ the farmer's own farm in a manner consistent with the disposal instructions on the pesticide label.

(Source: Amended at 12 Ill. Reg. , effective )

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE G: WASTE DISPOSAL
CHAPTER I: POLLUTION CONTROL BOARD
SUBCHAPTER c: HAZARDOUS WASTE OPERATING REQUIREMENTS

PART 724
STANDARDS FOR OWNERS AND OPERATORS OF HAZARDOUS WASTE TREATMENT, STORAGE AND DISPOSAL FACILITIES

SUBPART A: GENERAL PROVISIONS



SUBPART B: GENERAL FACILITY STANDARDS



SUBPART C: PREPAREDNESS AND PREVENTION



SUBPART D: CONTINGENCY PLAN AND EMERGENCY PROCEDURES



SUBPART E: MANIFEST SYSTEM, RECORDKEEPING AND REPORTING

SUBPART J: TANK SYSTEMS



SUBPART K: SURFACE IMPOUNDMENTS



SUBPART L: WASTE PILES



SUBPART M: LAND TREATMENT

SUBPART N: LANDFILLS



SUBPART O: INCINERATORS



AUTHORITY: Implementing Section 22.4 and authorized by Section 27 of the Environmental Protection Act (Ill. Rev. Stat. 1985, ch. 111 1/2, pars. 1022.4 and 1027).

SOURCE: Adopted in R82-19, 53 PCB 131, at 7 Ill. Reg. 14059, effective October 12, 1983; amended in R84-9 at 9 Ill. Reg. 11964, effective July 24, 1985; amended in R85-22 at 10 Ill. Reg. 1136, effective January 2, 1986;

amended in R86-1 at 10 Ill. Reg. 14119, effective August 12, 1986; amended in R86-28 at 11 Ill. Reg. 6138, effective March 24, 1987; amended in R86-28 at 11 Ill. Reg. 8684, effective April 21, 1987; amended in R86-46 at 11 Ill. Reg. 13577, effective August 4, 1987; amended in R87-5 at 11 Ill. Reg. 19397, effective November 12, 1987; amended in R87-39 at 12 Ill. Reg. , effective

SUBPART B: GENERAL FACILITY STANDARDS

Section 724.113 General Waste Analysis

a) Analysis:

1) Before an owner or operator treats, stores or disposes of any hazardous waste, the owner or operator must obtain a detailed chemical and physical analysis of a representative sample of the waste. At a minimum, this analysis must contain all the information which must be known to treat, store or dispose of the waste in accordance with the requirements of this Part or 35 Ill. Adm. Code 728, or with the conditions of a permit issued under 35 Ill. Adm. Code 702, 703 and 705.

2) The analysis may include data developed under 35 Ill. Adm. Code 721, and existing published or documented data on the hazardous waste or on hazardous waste generated from similar processes.

(Board Note: For example, the facility's records of analyses performed on the waste before the effective date of these regulations, or studies conducted on hazardous waste generated from processes similar to that which generated the waste to be managed at the facility, may be included in the data base required to comply with subsection (a)(1). The owner or operator of an off-site facility may arrange for the generator of the hazardous waste to supply part or all of the information required by subsection (a)(1). If the generator does not supply the information, and the owner or operator chooses to accept a hazardous waste, the owner or operator is responsible for obtaining the information required to comply with this Section.)

3) The analysis must be repeated as necessary to ensure that it is accurate and up to date. At a minimum, the analysis must be repeated:

A) When the owner or operator is notified, or has reason to believe, that the process or operation generating the hazardous waste has changed; and

B) For off-site facilities, when the results of the inspection required in subsection (a)(4) indicate that the hazardous waste received at the facility does not match the waste designated on the accompanying manifest or shipping paper.

4) The owner or operator of an off-site facility must inspect and, if necessary, analyze each hazardous waste movement received at

the facility to determine whether it matches the identity of the waste specified on the accompanying manifest or shipping paper.

b) The owner or operator must develop and follow a written waste analysis plan which describes the procedures which it will carry out to comply with subsection (a). The owner or operator must keep this plan at the facility. At a minimum, the plan must specify:

1) The parameters for which each hazardous waste will be analyzed and the rationale for the selection of these parameters (i.e., how analysis for these parameters will provide sufficient information on the waste's properties to comply with subsection (a)).

2) The test methods which will be used to test for these parameters.

3) The sampling method which will be used to obtain a representative sample of the waste to be analyzed. A representative sample may be obtained using either:

A) One of the sampling methods described in 35 Ill. Adm. Code 721.Appendix A; or

B) An equivalent sampling method.

(Board Note: See 35 Ill. Adm. Code 720.121 for related discussion.)

4) The frequency with which the initial analysis of the waste will be reviewed or repeated to ensure that the analysis is accurate and up to date.

5) For off-site facilities, the waste analyses that hazardous waste generators have agreed to supply.

6) Where applicable, the methods which will be used to meet the additional waste analysis requirements for specific waste management methods as specified in Sections 724.117, 724.414 and 724.441, and 35 Ill. Adm. Code 728.107. And,

7) For surface impoundments exempted from land disposal restrictions under 35 Ill. Adm. Code 728.104(a), the procedures and schedules for:

A) The sampling of impoundment contents;

B) The analysis of test data; and,

C) The annual removal of ~~residue which does not meet the standards of 35 Ill. Adm. Code 728.Subpart B~~ residues which are not delisted under 35 Ill. Adm. Code 720.122 and do not exhibit a characteristic of hazardous waste, and which do not meet the treatment standards of 35 Ill. Adm. Code 728

or, where no treatment standards have been established, the annual removal of residues which do not meet the applicable prohibition levels in 35 Ill. Adm. Code 728.Subpart C. .

c) For off-site facilities, the waste analysis plan required in subsection (b) must also specify the procedures which will be used to inspect and, if necessary, analyze each movement of hazardous waste received at the facility to ensure that it matches the identity of the waste designated on the accompanying manifest or shipping paper. At a minimum, the plan must describe:

1) The procedures which will be used to determine the identity of each movement of waste managed at the facility; and

2) The sampling method which will be used to obtain a representative sample of the waste to be identified, if the identification method includes sampling.

(Board Note: 35 Ill. Adm. Code 703, requires that the waste analysis plan be submitted with Part B of the permit application.)

(Source: Amended at 12 Ill. Reg. , effective )

SUBPART F: RELEASES FROM SOLID WASTE MANAGEMENT UNITS

Section 724.198 Detection Monitoring Program

An owner or operator required to establish a detection monitoring program under this Subpart must, at a minimum, discharge the following responsibilities:

a) The owner or operator must monitor for indicator parameters (e.g., specific conductance, total organic carbon or total organic halogen), waste constituents or reaction products that provide a reliable indication of the presence of hazardous constituents in groundwater. The Agency will specify the parameters or constituents to be monitored in the facility permit, after considering the following factors:

1) The types, quantities and concentrations of constituents in wastes managed at the regulated unit;

2) The mobility, stability and persistence of waste constituents or their reaction products in the unsaturated zone beneath the waste management area;

3) The detectability of indicator parameters, waste constituents and reaction products in groundwater; and

4) The concentrations or values and coefficients of variation of proposed monitoring parameters or constituents in the groundwater background.

b) The owner or operator must install a groundwater monitoring system at the compliance point as specified under Section 724.195. The groundwater monitoring system must comply with Sections 724.197(a)(2), 724.197(b) and 724.197(c).

c) The owner or operator must establish a background value for each monitoring parameter or constituent specified in the permit pursuant to paragraph (a). The permit will specify the background values for each parameter or specify the procedures to be used to calculate the background values:

   1) The owner or operator must comply with Section 724.197(g) in developing the data base used to determine background values.

   2) The owner or operator must express background values in a form necessary for the determination of statistically significant increases under Section 724.197(h).

   3) In taking samples used in the determination of background values, the owner or operator must use a groundwater monitoring system that complies with Section 724.197(a)(1), 724.197(b) and 724.197(c).

d) The owner or operator must determine groundwater quality at each monitoring well at the compliance point at least semi-annually during the active life of a regulated unit (including the closure period) and the post-closure care period. The owner or operator must express the groundwater quality at each monitoring well in a form necessary for the determination of statistically significant increases under Section 724.197(h).

e) The owner or operator must determine the groundwater flow rate and direction in the uppermost aquifer at least annually.

f) The owner or operator must use procedures and methods for sampling and analysis that meet the requirements of Section 724.197(d) and 724.197(e).

g) The owner or operator must determine whether there is a statistically significant increase over background values for any parameter or constituent specified in the permit pursuant to paragraph (a) each time it determines groundwater quality at tne compliance point under paragraph (d).

   1) In determining whether a statistically significant increase has occurred, the owner or operator must compare the groundwater quality at each monitoring well at the compliance point for each parameter or constituent to the background value for that parameter or constituent, according to the statistical procedure specified in the permit under Section 724.197(h).

   2) The owner or operator must determine whether there has been a statistically significant increase at each monitoring well at the compliance point within a reasonable time period after

completion of sampling. The Agency will specify that time period in the facility permit, after considering the complexity of the statistical test and the availability of laboratory facilities to perform the analysis of groundwater samples.

h) If the owner or operator determines, pursuant to paragraph (g), that there is a statistically significant increase for parameters or constituents specified pursuant to paragraph (a) at any monitoring well at the compliance point, the owner or operator must:

1) Notify the Agency of this finding in writing within seven days. The notification must indicate what parameters or constituents have shown statistically significant increases;

2) Immediately sample the groundwater in all monitoring wells and determine ~~-the concentration of all constituents identified in 35 Ill. Adm. Code 721, Appendix H that are present in groundwater-~~whether constituents identified in the list of Appendix I are present and, if so, at what concentration;

3) Establish a background value for each ~~-35 Ill. Adm. Code 721, Appendix H -~~constituent that has been found at the compliance point under paragraph (h)(2), as follows:

A) The owner or operator must comply with Section 724.197(g) in developing the data base used to determine background values;

B) The owner or operator must express background values in a form necessary for the determination of statistically significant increases under Section 724.197(h); and

C) In taking samples used in the determination of background values, the owner or operator must use a groundwater monitoring system that complies with Section 724.197(a)(1), 724.197(b) and 724.197(c);

4) Within 90 days, submit to the Agency an application for a permit modification to establish a compliance monitoring program meeting the requirements of Section 724.199. The application must include the following information:

A) An identification of the concentration of ~~-any 35 Ill. Adm. Code 721, Appendix H constituents -~~each constituent found in the groundwater at each monitoring well at the compliance point;

B) Any proposed changes to the groundwater monitoring system at the facility necessary to meet the requirements of Section 724.199;

C) Any proposed changes to the monitoring frequency, sampling and analysis procedures or methods or statistical procedures used at the facility necessary to meet the

requirements of Section 724.199.

D) For each hazardous constituent found at the compliance point, a proposed concentration limit under Section 724.194(a)(1) or 724.194(a)(2), or a notice of intent to seek an alternate concentration limit for a hazardous constituent under Section 724.194(b); and

5) Within 180 days, submit to the Agency:

A) All data necessary to justify any alternate concentration limit for a hazardous constituent sought under Section 724.194(b); and

An engineering feasibility plan for a corrective action program necessary to meet the requirements of Section 724.200, unless:

i) All hazardous constituents identified under paragraph (h)(2) are listed in Table 1 of Section 724.194 and their concentrations do not exceed the respective values given in that Table; or

ii) The owner or operator has sought an alternate concentration limit under Section 724.194(b) for every hazardous constituent identified under paragraph (h)(2).

i) If the owner or operator determines, pursuant to paragraph (g), that there is a statistically significant increase of parameters or constituents specified pursuant to paragraph (a) at any monitoring well at the compliance point, the owner or operator may demonstrate that a source other than a regulated unit caused the increase or that the increase resulted from error in sampling, analysis or evaluation. While the owner or operator may make a demonstration under this paragraph in addition to, or in lieu of, submitting a permit modification application under paragraph (h)(4), the owner or operator is not relieved of the requirement to submit a permit modification application within the time specified in paragraph (h)(4) unless the demonstration made under this paragraph successfully shows that a source other than a regulated unit caused the increase or that the increase resulted from error in sampling, analysis, or evaluation. If the demonstration is unsuccessful, the Agency shall notify the owner or operator in writing, with a statement as to why it determined the demonstration to have been unsuccessful. Such demonstration denial may be appealed to the Board pursuant to 35 Ill. Adm. Code 105. Such appeal will not excuse compliance with the facility permit, or delay any permit modification proceeding. In making a demonstration under this paragraph, the owner or operator must:

1) Notify the Agency in writing within seven days of determining a statistically significant increase at the compliance point that the owner or operator intends to make a demonstration under this

paragraph;

2) Within 90 days, submit a report to the Aency which demonstrates that a source other than a regulated unit caused the increase, or that the increase resulted from error in sampling, analysis or evaluation;

3) Within 90 days, submit to the Agency an application for a permit modification to make any appropriate changes to the detection monitoring program at the faciTity; and

4) Continue to monitor in accordance with the detection monitoring program established under this section.

j) If the owner or operator determines that the detection monitoring program no longer satisfies the requirements of this section, the owner or operator must, within 90 days, submit an application for a permit modification to make any appropriate changes to the program.

k) The owner or operator must assure that monitoring and corrective action measures necessary to achieve compliance with the groundwater protection standard under Section 724.192 are taken during the term of the permit.

Section 724.199 Compliance Monitoring Program

An owner or operator required to establish a compliance monitoring program under this Subpart must, at a minimum, discharge the following responsibilities:

a) The owner or operator must monitor the groundwater to determine whether regulated units are in compliance with the groundwater protection standard under Section 724.192. The Agency will specify the groundwater protection standard in the facility permit, including:

1) A list of the hazardous constituents identified under Section 724.193;

2) Concentration limits under Section 724.194 for each of those hazardous constituents;

3) Tne compliance point under Section 724.195; and

4) The compliance period under Section 724.196.

b) The owner or operator must install a groundwater monitoring system at the compliance point as specified under Section 724.195. The groundwater monitoring system must comply with Section 724.197(a)(2), 724.197(b) and 724.197(c).

c) Where a concentration limit established under paragraph (a)(2) is based on background groundwater quality, the Agency will specify the concentration in the permit as follows:

1) If there is a high temporal correlation between upgradient and compliance point concentrations of the hazardous constituents, the owner or operator may establish the concentration limit through sampling at upgradient wells each time groundwater is sampled at the compliance point. The Agency will specify the procedures used for determining the concentration limit in this manner in the permit. In all other cases, the concentration limit will be the mean of the pooled data on the concentration of the hazardous constituent.

2) If a hazardous constituent is identified on Table 1 under Section 724.194 and the difference between the respective concentration limit in Table 1 and the background value of the constituent under Section 724.197(g) is not statistically significant, the owner or operator must use the background value of the constituent as the concentration limit. In determining whether this difference is statistically significant, the owner or operator must use a statistical procedure providing reasonable confidence that a real difference will be indicated. The statistical procedure must:

   A) Be appropriate for the distribution of the data used to establish background values; and

   B) Provide a reasonable balance between the probability of falsely identifying a significant difference and the probability of failing to identify a significant difference.

3) The owner or operator must;

   A) Comply with Section 724.197(g) in developing the data base used to determine background values;

   B) Express background values in a form necessary for the determination of statistically significant increases under Section 724.197(h); and

   C) Use a groundwater monitoring system that complies with Section 724.197(a)(1), 724.197(b) and 724.197(c).

d) The owner or operator must determine the concentration of hazardous constituents in groundwater at each monitoring well at the compliance point at least quarterly during the compliance period. The owner or operator must express the concentration at each monitoring well in a form necessary for the determination of statistically significant increases under Section 724.197(h).

e) The owner or operator must determine the groundwater flow rate and direction in the uppermost aquifer at least annually.

f) The owner or operator must analyze samples from all monitoring wells at the compliance point ~~for all constituents contained in 35 Ill.~~

~~Adm. Code 721; Appendix H at least annually~~ -to determine whether ~~-additional hazardous-~~ constituents identified in the list of Appendix I are present and, if so, at what concentration. The analysis must be conducted at least annually to determine whether additional Appendix I constituents are present in the uppermost aquifer. If the owner or operator finds ~~-35 Ill. Adm. Code 721; Appendix H~~ -constituents from Appendix I in the groundwater that are not identified in the permit as ~~-hazardous-~~monitoring constituents, the owner or operator must report the concentrations of these additional constituents to the Agency within seven days after completion of the analysis.

g) The owner or operator must use procedures and methods for sampling and analysis that meet the requirements of Section 724.197(d) and 724.197(e).

h) The owner or operator must determine whether there is a statistically significant increase over the concentration limits for any hazardous constituents specified in the permit pursuant to paragraph (a) each time the owner or operator determines the concentration of hazardous constituents in groundwater at the compliance point.

   1) In determining whether a statistically significant increase has occurred, the owner or operator must compare the groundwater quality at each monitoring well at the compliance point for each hazardous constituent to the concentration limit for that constituent according to the statistical procedures specified in the permit under Section 724.197(h).

   2) The owner or operator must determine whether there has been a statistically significant increase at each monitoring well at the compliance point, within a reasonable time period after completion of sampling. The Agency will specify that time period in the facility permit, after considering the complexity of the statistical test and the availability of laboratory facilities to perform the analysis of groundwater samples.

i) If the owner or operator determines, pursuant to paragraph (h) that the groundwater protection standard is being exceeded at any monitoring well at the point of compliance, the owner or operator must:

   1) Notify the Agency of this finding in writing within seven days. The notification must indicate what concentration limits have been exceeded.

   2) Submit to the Agency an application for a permit modification to establish a corrective action program meeting the requirements of Section 724.200 within 180 days, or within 90 days if an engineering feasibility study has been previously submitted to the Agency under Section 724.198(h)(5). The application must at a minimum include the following information:

      A) A detailed description of corrective actions that will

achieve compliance with the groundwater protection standard specified in the permit under paragraph (a); and

B) A plan for a groundwater monitoring program that will demonstrate the effectiveness of the corrective action. Such a groundwater monitoring program may be based on a compliance monitoring program developed to meet the requirements of this section.

j) If the owner or operator determines, pursuant to paragraph (h), that the groundwater protection standard is being exceeded at any monitoring well at the point of compliance, the owner or operator may demonstrate that a source other than a regulated unit caused the increase or that the increase resulted from error in sampling, analysis or evaluation. While the owner or operator may make a demonstration under this paragraph in addition to, or in lieu of, submitting a permit modification application under paragraph (i)(2), the owner or operator is not relieved of the requirement to submit a permit modification application within the time specified in paragraph (i)(2) unless the demonstration made under this paragraph successfully shows that a source other than a regulated unit caused the increase or that the increase resulted from error in sampling, analysis or evaluation. In making a demonstration under this paragraph, the owner or operator must:

1) Notify the Agency in writing within seven days that it intends to make a demonstration under this paragraph;

2) Within 90 days, submit a report to the Agency which demonstrates that a source other than a regulated unit caused the standard to be exceeded or that the apparent noncompliance with the standards resulted from error in sampling, analysis or evaluation;

3) Within 90 days, submit to the Agency an application for a permit modification to make any appropriate changes to the compliance monitoring program at the facility; and

4) Continue to monitor in accord with the compliance monitoring program established under this section.

k) If the owner or operator determines that the compliance monitoring program no longer satisfies the requirements of this section, the owner or operator must, within 90 days, submit an application for a permit modification to make any appropriate changes to the program.

l) The owner or oprator must assure that monitoring and corrective action measures necessary to achieve compliance with the groundwater protection standard under Section 724.192 are taken during the term of the permit.

Section 724.200 Corrective Action Program

An owner or operator required to establish a corrective action program under

this Subpart must, at a minimum, discharge the following responsibilities:

a) The owner or operator must take corrective action to ensure that regulated units are in compliance with the groundwater protection standard under Section 724.192. The Agency will specify the groundwater protection standard in the facility permit, including:

1) A list of the hazardous constituents identified under Section 724.193;

2) Concentration limits under Section 724.194 for each of those hazardous constituents;

3) The compliance point under Section 724.195; and

4) The compliance period under Section 724.196.

b) The owner or operator must implement a corrective action program that prevents hazardous constituents from exceeding their respective concentration limits at the compliance point by removing the hazardous waste constituents or treating them in place. The permit will specify the specific measures that will be taken.

c) The owner or operator must begin corrective action within a reasonable time period after the groundwater protection standard is exceeded. The Agency will specify that time period in the facility permit. If a facility permit includes a corrective action program in addition to a compliance monitoring program, the permit will specify when the corrective action will begin and such a requirement will operate in lieu of Section 724.199(i)(2).

d) In conjunction with a corrective action program, the owner or operator must establish and implement a groundwater monitoring program to demonstrate the effectiveness of the corrective action program. Such a monitoring program may be based on the requirements for a compliance monitoring program under Section 724.199 and must be as effective as that program in determining compliance with the groundwater protection standard under Section 724.192 and in determining the success of a corrective action program under paragraph (e) where appropriate.

e) In addition to the other requirements of this section, the owner or operator must conduct a corrective action program to remove or treat in place any hazardous constituents under Section 724.193 that exceed concentration limits under Section 724.194 in groundwater:

1) B-b-etween the compliance point under Section 724.195 and the downgradient facility property boundary-~~: The permit will specify the measures to be taken:~~-;and

2) Beyond the facility boundary, where necessary to protect human health and the environment, unless the owner or operator demonstrates to the Agency that, despite the owner's or operator's best efforts, the owner or operator was unable to

obtain the necessary permission to undertake such action. The owner and operator are not relieved of all responsibility to clean up a release that has migrated beyond the facility boundary where off-site access is denied. On-site measures to address such releases will be determined on a case-by-case basis.

- ~~1-~~ 3) Corrective action measures under this paragraph must be initiated and completed within a reasonable period of time considering the extent of contamination.

- ~~2-~~ 4) Corrective action measures under this paragraph may be terminated once the concentration of hazardous constituents under Section 724.193 is reduced to levels below their respective concentration limits under Section 724.194.

f) The owner or operator must continue corrective action measures during the compliance period to the extent necessary to ensure that the groundwater protection standard is not exceeded. If the owner or operator is conducting corrective action at the end of the compliance period, the owner or operator must continue that corrective action for as long as necessary to achieve compliance with the groundwater protection standard. The owner or operator may terminate corrective action measures taken beyond the period equal to the active life of the waste management area (including the closure period) if the owner or operator can demonstrate, based on data from the groundwater monitoring program under paragraph (d), that the groundwater protection standard of Section 724.192 has not been exceeded for a period of three consecutive years.

g) The owner or operator must report in writing to the Agency on the effectiveness of the corrective action program. The owner or operator must submit these reports semi-annually.

h) If the owner or operator determines that the corrective action program no longer satisfies the requirements of this section, the owner or operator must, within 90 days, submit an application for a permit modification to make any appropriate changes to the program.

Section 724.201 Corrective Action for Solid Waste Management Units

a) The owner or operator of a facility seeking a permit for the treatment, storage or disposal of hazardous waste must institute corrective action as necessary to protect human health and the environment for all releases of hazardous waste or constituents from any solid waste management unit at the facility, regardless of the time at which waste was placed in such unit.

b) Corrective action will be specified in the permit. The permit will contain schedules of compliance for such corrective action (where such corrective action cannot be completed prior to issuance of the permit) and assurances of financial responsibility for completing such corrective action.

c) The owner or operator must implement corrective action measures beyond the facility property boundary, where necessary to protect human health and the environment, unless the owner or operator demonstrates to the Agency that, despite the owner or operator's best efforts, the owner or operator was unable to obtain the necessary permission to undertake such actions. The owner and operator are not relieved of all responsibility to clean up a release that has migrated beyond the facility boundary where off-site access is denied. On-site measures to address such releases will be determined on a case-by-case basis. Assurances of financial responsibility for such corrective action must be provided.

(Source: Amended at 12 Ill. Reg. , effective )

SUBPART H: FINANCIAL REQUIREMENTS

Section 724.247 Liability Requirements

a) Coverage for sudden accidental occurrences. An owner or operator of a hazardous waste treatment, storage or disposal facility, or a group of such facilities, shall demonstrate financial responsibility for bodily injury and property damage to third parties caused by sudden accidental occurrences arising from operations of the facility or group of facilities. The owner or operator shall have and maintain liability coverage for sudden accidental occurrences in the amount of at least $1 million per occurrence with an annual aggregate of at least $2 million, exclusive of legal defense costs. This liability coverage may be demonstrated in one of three ways, as specified in subsections (a)(1), (a)(2) and (a)(3):

1) An owner or operator may demonstrate the required liability coverage by having liability insurance as specified in this paragraph.

A) Each insurance policy must be amended by attachment of the Hazardous Waste Facility Liability Endorsement or evidenced by a Certificate of Liability Insurance. The wording of the endorsement must be as specified in Section 724.251. The wording of the certificate of insurance must be as specified in Section 724.251. The owner or operator shall submit a signed duplicate original of the endorsement or the certificate of insurance to the Agency. If requested by the Agency, the owner or operator shall provide a signed duplicate original of the insurance policy. An owner or operator of a new facility shall submit the signed duplicate original of the Hazardous Waste Facility Liability Endorsement or the Certificate of Liability Insurance to the Agency at least 60 days before the date on which hazardous waste is first received for treatment, storage or disposal. The insurance must be effective before this initial receipt of hazardous waste.

B) Each insurance policy must be issued by an insurer which,

at a minimum, is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more states.

2) An owner or operator may meet the requirements of this Section by passing a financial test or using the corporate guarantee for liability coverage as specified in subsections (f) and (g).

3) An owner or operator may demonstrate the required liability coverage through use of the financial test, insurance, the corporate guarantee, a combination of the financial test and insurance or a combination of the corporate guarantee and insurance. The amount of coverage demonstrated must total at least the minimum amounts required by this subsection.

b) Coverage for nonsudden accidental occurrences. An owner or operator of a surface impoundment, landfill or land treatment facility which is used to manage hazardous waste, or a group of such facilities, shall demonstrate financial responsibility for bodily injury and property damage to third parties caused by nonsudden accidental occurrences arising from operations of the facility or group of facilities. The owner or operator shall have and maintain liability coverage for nonsudden accidental occurrences in the amount of at least $3 million per occurrence with an annual aggregate of at least $6 million, exclusive of legal defense costs. This liability coverage may be demonstrated in one of three ways, as specified in subsections (b)(1), (b)(2), and (b)(3):

1) An owner or operator may demonstrate the required liability coverage by having liability insurance as specified in this paragraph.

A) Each insurance policy must be amended by attachment of the Hazardous Waste Facility Liability Endorsement or evidenced by a Certificate of Liability Insurance. The wording of the endorsement must be as specified in Section 724.251. The wording of the certificate of insurance must be as specified in Section 724.251. The owner or operator must shall submit a signed duplicate original of the endorsement or the certificate of insurance to the Agency. If requested by the Agency, the owner or operator shall provide a signed duplicate original of the insurance policy. An owner or operator of a new facility shall submit the signed duplicate original of the Hazardous Waste Facility Liability Endorsement or the Certificate of Liability Insurance to the Agency at least 60 days before the date on which hazardous waste is first received for treatment, storage or disposal. The insurance must be effective before this initial receipt of hazardous waste.

B) Each insurance policy must be issued by an insurer which, at a minimum, is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer in one or more states.

2) An owner or operator may meet the requirements of this Section by passing a financial test or using the corporate guarantee for liability coverage as specified in subsections (f) and (g).

3) An owner or operator may demonstrate the required liability coverage through use of the financial test, insurance, the corporate guarantee, a combination of the financial test and insurance or a combination of the corporate guarantee and insurance. The amounts of coverage demonstrated must total at least the minimum amounts required by this paragraph.

c) Request for adjusted level of required liability coverage. If an owner or operator demonstrates to the Agency that the levels of financial responsibility required by subsections (a) or (b) are not consistent with the degree and duration of risk associated with treatment, storage or disposal at the facility or group of facilities, the owner or operator may obtain an adjusted level of required liability coverage from the Agency. The request for an adjusted level of required liability coverage must be submitted to the Agency as part of the application under 35 Ill. Adm. Code 703.182 for a facility that does not have a permit, or pursuant to the procedures for permit modification under 35 Ill. Adm. Code 705.128 for a facility that has a permit. If granted, the modification will take the form of an adjusted level of required liability coverage, such level to be based on the Agency assessment of the degree and duration of risk associated with the ownership or operation of the facility or group of facilities. The Agency may require an owner or operator who requests an adjusted level of required liability coverage to provide such technical and engineering information as is necessary to determine a level of financial responsibility other than that required by subsection (a) or (b). Any request for an adjusted level of required liability coverage for a permitted facility will be treated as a request for a permit modification under 35 Ill. Adm. Code 702.184(e)(3) and 705.128.

d) Adjustments by the Agency. If the Agency determines that the levels of financial responsibility required by subsection (a) or (b) are not consistent with the degree and duration of risk associated with treatment, storage or disposal at the facility or group of facilities, the Agency shall adjust the level of financial responsibility required under subsection (a) or (b) as may be necessary to protect human health and the environment. This adjusted level shall be based on the Agency's assessment of the degree and duration of risk associated with the ownership or operation of the facility or group of facilities. In addition, if the Agency determines that there is a significant risk to human health and the environment from nonsudden accidental occurrences resulting from the operations of a facility that is not a surface impoundment, landfill or land treatment facility, the Agency may require that an owner or operator of the facility comply with subsection (b). An owner or operator shall furnish to the Agency, within a time specified by the Agency in the request, which shall not be less than 30 days, any information which the Agency requests to determine whether cause

exists for such adjustments of level or type of coverage. Any adjustment of the level or type of coverage for a facility that has a permit will be treated as a permit modification under 35 Ill. Adm. Code 702.184(e)(3) and 705.128.

e) Period of coverage. Within 60 days after receiving certifications from the owner or operator and an independent registered professional engineer that final closure has been completed in accordance with the approved closure plan, the Agency shall notify the owner or operator in writing that the owner or operator is no longer required by this Section to maintain liability coverage for that facility, unless the Agency determines that closure has not been in accordance with the approved closure plan.

f) Financial test for liability coverage.

1) An owner or operator may satisfy the requirements of this Section by demonstrating that it passes a financial test as specified in this paragraph. To pass this test the owner or operator shall meet the criteria of subsection (f)(1)(A) or (f)(1)(B):

A) The owner or operator shall have:

i) Net working capital and tangible net worth each at least six times the amount of liability coverage to be demonstrated by this test; and

ii) Tangible net worth of at least $10 million; and

iii) Assets in the United States amounting to either: at least 90 percent of the total assets; or at least six times the amount of liability coverage to be demonstrated by this test.

B) The owner or operator shall have:

i) A current rating for its most recent bond issuance of AAA, AA, A or BBB as issued by Standard and Poor's, or Aaa, Aa, A or Baa as issued by Moody's; and

ii) Tangible net worth of at least $10 million; and

iii) Tangible net worth at least six times the amount of liability coverage to be demonstrated by this test; and

iv) Assets in the United States amounting to either: at least 90 percent of the total assets; or at least six times the amount of liability coverage to be demonstrated by this test.

2) The phrase "amount of liability coverage" as used in subsection (f)(1) refers to the annual aggregate amounts for which coverage

is required under subsections (a) and (b).

3) To demonstrate that it meets this test, the owner or operator shall submit the following three items to the Agency:

A) A letter signed by the owner's or operator's chief financial officer and worded as specified in Section 724.251. If an owner or operator is using the financial test to demonstrate both assurance for closure or post-closure care, as specified by Sections 724.243(f), 724.245(f), 725.243(e) and 725.245(e), and liability coverage, it shall submit the letter specified in Section 724.251 to cover both forms of financial responsibility; a separate letter as specified in Section 724.251 is not required.

B) A copy of the independent certified public accountant's report on examination of the owner's or operator's financial statements for the latest completed fiscal year.

C) A special report from the owner's or operator's independent certified public accountant to the owner or operator stating that:

i) The accountant has compared the data which the letter from the chief financial officer specifies as having been derived from the independently audited, year-end financial statements for the latest fiscal year with the amounts in such financial statements; and

ii) In connection with that procedure, no matters came to the accountant's attention which caused the accountant to believe that the specified data should be adjusted.

4) An owner or operator of a new facility shall submit the items specified in subsection (f)(3) to the Agency at least 60 days before the date on which hazardous waste is first received for treatment, storage or disposal.

5) After the initial submission of items specified in subsection (f)(3), the owner of operator shall send updated information to the Agency within 90 days after the close of each succeeding fiscal year. This information must consist of all three items specified in subsection (f)(3).

6) If the owner or operator no longer meets the requirements of subsection (f)(1), the owner or operator shall obtain insurance for the entire amount of required liability coverage as specified in this Section. Evidence of insurance must be submitted to the Agency within 90 days after the end of the fiscal year for which the year-end financial data show that the owner or operator no longer meets the test requirements.

7) The Agency may disallow use of this test on the basis of

qualifications in the opinion expressed by the independent certified public accountant in the accountant's report on examination of the owner's or operator's financial statements (see subsection (f)(3)(B)). An adverse opinion or a disclaimer of opinion will be cause for disallowance. The Agency shall evaluate other qualifications on an individual basis. The owner or operator shall provide evidence of insurance for the entire amount of required liability coverage as specified in this Section within 30 days after notification of disallowance.

g) Corporate guarantee for liability coverage.

1) Subject to subsection (g)(2), an owner or operator may meet the requirements of this Section by obtaining a written guarantee, referred to as a "corporate guarantee." The guarantor must be the parent corporation of the owner or operator. The guarantor must meet the requirements for owners and operators in subsections (f)(1) through (f)(7). The wording of the corporate guarantee must be as specified in Section 724.251. A certified copy of the corporate guarantee must accompany the items sent to the Agency as specified in subsection (f)(3). The terms of the corporate guarantee must provide that:

A) If the owner or operator fails to satisfy a judgment based on a determination of liability for bodily injury or property damage to third parties caused by sudden or nonsudden accidental occurences (or both as the case may be), arising from the operation of facilities covered by this corporate guarantee, or fails to pay an amount agreed to in settlement of claims arising from or alleged to arise from such injury or damage, the guarantor will do so up to the limits of coverage.

B) The corporate guarantee will remain in force unless the guarantor sends notice of cancellation by certified mail to the owner or operator and to the Agency. The guarantee shall not be terminated unless and until the Agency approves alternate liability coverage complying with Section 724.247 or 35 Ill. Adm. Code 725.247.

2) The guarantor shall execute the guarantee in Illinois. The guarantee shall be accompanied by a letter signed by the guarantor which states that:

A) The guarantee was signed in Illinois by an authorized agent of the guarantor;

B) The guarantee is governed by Illinois law; and

C) ~~-The guarantor submits to the jurisdiction of Illinois courts for purposes of enforcement of the guarantee.~~ -The name and address of the guarantor's registered agent for service of process.

3) The guarantor shall have a registered agent pursuant to Ill. Rev. Stat. 1985, ch. 32, par. 5.05.

(Source: Amended at 12 Ill. Reg. , effective )

Section 724.251 Wording of the Instruments

The Board incorporates by reference 40 CFR 264.151 ~~-(1986); as amended at 51 Fed. Reg. 25354, July 11, 1986~~-(1987), as amended at 52 Fed. Reg. 44313, November 18, 1987. This Section incorporates no later amendments or editions. The Agency shall promulgate standardized forms based on 40 CFR 264.151 with such changes in wording as are necessary under Illinois law. Any owner or operator required to establish financial assurance under this Subpart shall do so only upon the standardized forms promulgated by the Agency. The Agency shall reject any financial assurance document which is not submitted on such standardized forms.

(Source: Amended at 12 Ill. Reg. , effective )

APPENDIX I: GROUNDWATER MONITORING LIST

a) The regulatory requirements pertain only to the list of substances; the right hand columns (Methods and PQL) are given for informational purposes only. See also (e) and (f).

b) Common names are those widely used in government regulations, scientific publications and commerce; synonyms exist for many chemicals.

c) "CAS RN" means "Chemical Abstracts Service Registry Number". Where "total" is entered, all species in the groundwater that contain this element are included.

d) CAS index names are those used in the 9th Cumulative index.

e) "Suggested Methods" refer to analytical procedure numbers used in "Test Methods for Solid Waste," incorporated by reference in 35 Ill. Adm. Code 720.111. Analytical details can be found in "Test Methods", and in documentation on file with USEPA. Caution: The methods listed are representative procedures and may not always be the most suitable methods for monitoring an analyte under the regulations.

f) Practical Quantitation Limits ("PQLs") are the lowest concentrations of analytes in groundwater that can be reliably determined within specified limits of precision and accuracy by the indicated methods under routine laboratory operating conditions. The PQLs listed are generally stated to one significant figure. Caution: The PQL values in many cases are based only on a general estimate for the method and not on a determination for individual compounds; PQLs are not a part of the regulation.

g) PCBs (CAS RN 1336-36-3). This category contains congener chemicals, including constituents Aroclor-1016 (CAS RN 12674-11-2), Aroclor-1221 (CAS RN 11104-28-2), Aroclor-1232 (CAS RN 11141-16-5), Aroclor-1242 (CAS RN 53469-21-9 ), Aroclor-1248 (CAS RN 12672-29-6), Aroclor-1254 (CAS RN 11097-69-1) and Aroclor-1260 (CAS RN 11096-82-5). The PQL shown is an average value for PCB congeners.

h) PCDDs. This category includes congener chemicals, including tetrachlorodibenzo-p-dioxins (see also 2,3,7,8-TCDD), pentachlorodibenzo-p-dioxins and hexachlorodibenzo-p-dioxins. The PQL shown is an average value for PCDD congeners.

i) PCDFs. This category contains congener chemicals, including tetrachlorodibenzofurans, pentachlorodibenzofurans and hexachlorodibenzofurans. The PQL shown is an average for all PCDF congeners.

| Common Name | CAS RN | Chemical Abstracts Service Index Name | Suggested methods | PQL (ug/L) |
|---|---|---|---|---|
| Acenaphthene | 83-32-9 | Acenaphthylene, 1,2-dihydro- | 8100 | 200. |
| | | | 8270 | 10. |
| Acenaphthylene | 208-96-8 | Acenaphthylene | 8100 | 200. |
| | | | 8270 | 10. |
| Acetone | 67-64-1 | 2-Propanone | 8240 | 100. |
| Acetophenone | 98-86-2 | Ethanone, 1-phenyl- | 8270 | 10. |
| Acetonitrile; Methyl cyanide | 75-05-8 | Acetonitrile | 8015 | 100. |
| 2-Acetylaminofluorine; 2-AAF | 53-96-3 | Acetamide, N-9H-fluoren-2-yl- | 8270 | 10. |
| Acrolein | 107-02-8 | 2-Propenal | 8030 | 5. |
| | | | 8240 | 5. |
| Acrylonitrile | 107-13-1 | 2-Propenenitrile | 8030 | 5. |
| | | | 7240 | 5. |
| Aldrin | 309-00-2 | 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-(1alpha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)- | 8080 | 0.05 |
| | | | 8270 | 10. |
| Allyl chloride | 107-05-1 | 1-Propene, 3-chloro- | 8010 | 5. |
| | | | 8240 | 100. |
| 4-Aminobiphenyl | 92-67-1 | [1,1'-Biphenyl]-4-amine | 8270 | 10. |
| Aniline | 62-53-2 | Benzenamine | 8270 | 10. |
| Anthracene | 120-12-7 | Anthracene | 8100 | 200. |
| | | | 8270 | 10. |
| Antimony | (Total) | Antimony | 6010 | 300. |
| | | | 7040 | 2000. |
| | | | 7041 | 30. |
| Aramite | 140-57-8 | Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester | 8270 | 10. |
| Arsenic | (Total) | Arsenic | 6010 | 500. |
| | | | 7060 | 10. |
| | | | 7061 | 20. |
| Barium | (Total) | Barium | 6010 | 20. |
| | | | 7080 | 1000. |
| Benzene | 71-43-2 | Benzene | 8020 | 2. |
| | | | 8240 | 5. |
| Benzo[a]anthracene; Benzanthracene | 56-55-3 | Benz[a]anthracene | 8100 | 200. |
| | | | 8270 | 10. |
| Benzo[b]fluoranthene | 205-99-2 | Benz[e]acephenanthrylene | 8100 | 200. |
| | | | 8270 | 10. |
| Benzo[k]fluoranthene | 207-08-9 | Benzo[k]fluoranthene | 8100 | 200. |
| | | | 8270 | 10. |
| Benzo[ghi]perylene | 191-24-2 | Benzo[ghi]perylene | 8100 | 200. |
| | | | 8270 | 10. |
| Benzo[a]pyrene | 50-32-8 | Benzo[a]pyrene | 8100 | 200. |
| | | | 8270 | 10. |
| Benzyl alcohol | 100-51-6 | Benzenemethanol | 8270 | 20. |
| Beryllium | (Total) | Beryllium | 6010 | 3. |
| | | | 7090 | 50. |

| | | | | |
|---|---|---|---|---|
| alpha-BHC | 319-84-6 | Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha, 3beta, 4alpha, 5beta, 6beta)- | 8080<br>8250 | 0.05<br>10. |
| beta-BHC | 319-85-7 | Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2beta, 3alpha, 4beta, 5alpha, 6beta)- | 8080<br>8250 | 0.05<br>40. |
| delta-BHC | 319-86-8 | Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha, 3alpha, 4beta, 5alpha, 6beta)- | 8080<br>8250 | 0.1<br>30. |
| gamma-BHC; Lindane | 58-89-9 | Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha, 3beta, 4alpha, 5alpha, 6beta)- | 8080<br>8250 | 0.05<br>10. |
| Bis(2-chloroethoxy)methane | 111-91-1 | Ethane, 1,1'-[methylenebis (oxy)]bis[2-chloro- | 8270 | 10. |
| Bis(2-chloroethyl)ether | 111-44-4 | Ethane, 1,1'-oxybis[2-chloro- | 8270 | 10. |
| Bis(2-chloro-1-methylethyl) ether; 2,2'-Dichlorodiisopropyl ether | 108-60-1 | Propane, 2,2'-oxybis[1-chloro- | 8010<br>8270 | 100.<br>10. |
| Bis(2-ethylhexyl) phthalate | 117-81-7 | 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester | 8060<br>8270 | 20.<br>10. |
| Bromodichloromethane | 75-27-4 | Methane, bromodichloro- | 8010<br>8240 | 1.<br>5. |
| Bromoform; Tribromomethane | 75-25-2 | Methane, tribromo- | 8010<br>8240 | 2.<br>5. |
| 4-Bromophenyl phenyl ether | 101-55-3 | Benzene, 1-bromo-4-phenoxy- | 8270 | 10. |
| Butyl benzyl phthalate; Benzyl butyl phthalate | 85-68-7 | 1,2-Benzenedicarboxylic acid, butyl phenylmethyl ester | 8060<br>8270 | 5.<br>10. |
| Cadmium | Total | Cadmium | 6010<br>7130<br>7131 | 40.<br>50.<br>1. |
| Carbon disulfide | 75-15-0 | Carbon disulfide | 8240 | 5. |
| Carbon tetrachloride | 56-23-5 | Methane, tetrachloro- | 8010<br>8240 | 1.<br>5. |
| Chlordane | 57-74-9 | 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro- | 8080<br>8250 | 0.1<br>10. |
| p-Chloroaniline | 106-47-8 | Benzeneamine, 4-chloro- | 8270 | 20. |
| Chlorobenzene | 106-90-7 | Benzene, chloro- | 8010<br>8020<br>8240 | 2.<br>2.<br>5. |
| Chlorobenzilate | 510-15-6 | Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-, ethyl ester | 8270 | 10. |
| p-Chloro-m-cresol | 59-50-7 | Phenol, 4-chloro-3-methyl- | 8040<br>8270 | 5.<br>20. |
| Chloroethane; Ethyl chloride | 75-00-3 | Ethane, chloro- | 8010<br>8240 | 5.<br>10. |
| Chloroform | 67-66-3 | Methane, trichloro- | 8010<br>8240 | 0.5<br>5. |
| 2-Chloronapthalene | 91-58-7 | Naphthalene, 2-chloro- | 8120<br>8270 | 10.<br>10. |
| 2-Chlorophenol | 95-57-8 | Phenol, 2-chloro- | 8040<br>8270 | 5.<br>10. |

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|---|---|---|---|---|
| 4-Chlorophenyl phenyl ether | 7005-72-3 | Benzene, 1-chloro-4-phenoxy- | 8270 | 10. |
| Chloroprene | 122-99-8 | 1,3-Butadiene, 2-chloro- | 8010 | 50. |
| | | | 8240 | 5. |
| Chromium | (Total) | Chromium | 6010 | 70. |
| | | | 7190 | 500. |
| | | | 7191 | 10. |
| Chrysene | 218-01-9 | Chrysene | 8100 | 200. |
| | | | 8270 | 10. |
| Cobalt | (Total) | Cobalt | 6010 | 70. |
| | | | 7200 | 500. |
| | | | 7201 | 10. |
| Copper | (Total) | Copper | 6010 | 60. |
| | | | 7210 | 200. |
| m-Cresol | 108-39-4 | Phenol, 3-methyl- | 8270 | 10. |
| o-Cresol | 95-48-7 | Phenol, 2-methyl- | 8270 | 10. |
| p-Cresol | 106-44-5 | Phenol, 4-methyl- | 8270 | 10. |
| Cyanide | 57-12-5 | Cyanide | 9010 | 40. |
| 2,4-D; 2,4-Dichlorophenoxyacetic acid | 94-75-7 | Acetic acid, (2,4-dichlorophenoxy)- | 8150 | 10. |
| 4,4'-DDD | 72-54-8 | Benzene, 1,1'-(2,2-dichloroethylidene)(bis[4-chloro- | 8080 | 0.1 |
| | | | 8270 | 10. |
| 4,4'-DDE | 72-55-9 | Benzene, 1,1'-(dichloroethylidene)(bis[4-chloro- | 8080 | 0.05 |
| | | | 8270 | 10. |
| 4,4'-DDT | 50-29-3 | Benzene, 1,1'-(2,2,2-trichloroethylidene)(bis[4-chloro- | 8080 | 0.1 |
| | | | 8270 | 10. |
| Diallate | 2303-16-4 | Carbamothioic acid, bis(1-methylethyl)-, S-(2,3-dichloro-2-propenyl) ester | 8270 | 10. |
| Dibenz[a,h]anthracene | 53-70-3 | Dibenz[a,h]anthracene | 8100 | 200. |
| | | | 8270 | 10. |
| Dibenzofuran | 132-64-9 | Dibenzofuran | 8270 | 10. |
| Dibromochloromethane; Chlorodibromomethane | 124-48-1 | Methane, dibromochloro- | 8010 | 1. |
| | | | 8240 | 5. |
| 1,2-Dibromo-3-chloropropane; DBCP | 96-12-8 | Propane, 1,2-dibromo-3-chloro- | 8010 | 100. |
| | | | 8240 | 5. |
| | | | 8270 | 10. |
| 1,2-Dibromoethane; Ethylene dibromide | 106-93-4 | Ethane, 1,2-dibromo- | 8010 | 10. |
| | | | 8240 | 5. |
| Di-n-butyl phthalate | 84-74-2 | 1,2-Benzenedicarboxylic acid, dibutyl ester | 8060 | 5. |
| | | | 8270 | 10. |
| o-Dichlorobenzene | 95-50-1 | Benzene, 1,2-dichloro- | 8010 | 2. |
| | | | 8020 | 5. |
| | | | 8120 | 10. |
| | | | 8270 | 10. |
| m-Dichlorobenzene | 541-73-1 | Benzene, 1,3-dichloro- | 8010 | 5. |
| | | | 8020 | 5. |
| | | | 8120 | 10. |
| | | | 8270 | 10. |
| p-Dichlorobenzene | 106-46-7 | Benzene, 1,4-dichloro- | 8010 | 2. |
| | | | 8020 | 5. |
| | | | 8120 | 15. |
| | | | 8270 | 10. |
| 3,3'-Dichlorobenzidine | 91-94-1 | [1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro- | 8270 | 20. |

| | | | | |
|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | 110-57-6 | 2-Butene, 1,4-dichloro-, (E)- | 8240 | 5. |
| Dichlorodifluoromethane | 75-71-8 | Methane, dichlorodifluoro- | 8010 | 10. |
| | | | 8240 | 5. |
| 1,1-Dichloroethane | 75-34-3 | Ethane, 1,1-dichloro- | 8010 | 1. |
| | | | 8240 | 5. |
| 1,2-Dichloroethane; Ethylene dichloride | 107-06-2 | Ethane, 1,2-dichloro- | 8010 | 0.5 |
| | | | 8240 | 5. |
| 1,1-Dichloroethylene; Vinylidene chloride | 75-35-4 | Ethene, 1,1-dichloro- | 8010 | 1. |
| | | | 8240 | 5. |
| trans-1,2-Dichloroethylene | 156-60-5 | Ethene, 1,2-dichloro-, (E)- | 8010 | 1. |
| | | | 8240 | 5. |
| 2,4-Dichlorophenol | 120-83-2 | Phenol, 2,4-dichloro | 8040 | 5. |
| | | | 8270 | 10. |
| 2,6-Dichlorophenol | 87-65-0 | Phenol, 2,6-dichloro- | 8270 | 10. |
| 1,2-Dichloropropane | 78-87-5 | Propane, 1,2-dichloro- | 8010 | 0.5 |
| | | | 8240 | 5. |
| cis-1,3-Dichloropropene | 10061-01-5 | 1-Propene, 1,3-dichloro, (Z)- | 8010 | 20. |
| | | | 8240 | 5. |
| trans-1,3-Dichloropropene | 10061-02-6 | 1-Propene, 1,3-dichloro-, (E)- | 8010 | 5. |
| | | | 8240 | 5. |
| Dieldrin | 60-57-1 | 2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)- | 8080 | 0.05 |
| | | | 8270 | 10. |
| Diethyl phthalate | 84-66-2 | 1,2-Benzenedicarboxylic acid, diethyl ester | 8060 | 5. |
| | | | 8270 | 10. |
| 0,0-Diethyl 0-2-pyrazinyl phosphorothioate; Thionazin | 297-97-2 | Phosphorothioic acid, 0,0-diethyl 0-pyrazinyl ester | 8270 | 10. |
| Dimethoate | 60-51-5 | Phosphorodithioic acid, 0,0-dimethyl S-[2-(methylamino)-2-oxoethyl] ester | 8270 | 10. |
| p-(Dimethylamino)azobenzene | 60-11-7 | Benzenamine, N,N-dimethyl-4-(phenylazo)- | 8270 | 10. |
| 7,12-Dimethylbenz[a]anthracene | 57-97-6 | Benz[a]anthracene, 7,12-dimethyl- | 8270 | 10. |
| 3,3'-Dimethylbenzidine | 119-93-7 | [1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl- | 8270 | 10. |
| alpha, alpha-Dimethylphenethylamine | 122-09-8 | Benzeneethanamine, alpha, alpha-dimethyl- | 8270 | 10. |
| 2,4-Dimethylphenol | 105-67-9 | Phenol, 2,4-dimethyl- | 8040 | 5. |
| | | | 8270 | 10. |
| Dimethyl phthalate | 131-11-3 | 1,2-Benzenedicarboxylic acid, dimethyl ester | 8060 | 5. |
| | | | 8270 | 10. |
| m-Dinitrobenzene | 99-65-0 | Benzene, 1,3-dinitro- | 8270 | 10. |
| 4,6-Dinitro-o-cresol | 534-52-1 | Phenol, 2-methyl-4,6-dinitro- | 8040 | 150. |
| | | | 8270 | 50. |
| 2,4-Dinitrophenol | 51-28-5 | Phenol, 2,4-dinitro- | 8040 | 150. |
| | | | 8270 | 50. |
| 2,4-Dinitrotoluene | 121-14-2 | Benzene, 1-methyl-2,4-dinitro- | 8090 | 0.2 |
| | | | 8270 | 10. |
| 2,6-Dinitrotoluene | 606-20-2 | Benzene, 2-methyl-1,3-dinitro- | 8090 | 0.1 |
| | | | 8270 | 10. |

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|---|---|---|---|---|
| Dinoseb; DNBP; 2-sec-Butyl-4,6-dinitrophenol | 88-85-7 | Phenol, 2-(1-methylpropyl)-4,6-dinitro- | 8150<br>8270 | 1.<br>10. |
| Di-n-octyl phthalate | 117-84-0 | 1,2-Benzenedicarboxylic acid, dioctyl ester | 8060<br>8270 | 30.<br>10. |
| 1,4-Dioxane | 123-91-1 | 1,4-Dioxane | 8015 | 150. |
| Diphenylamine | 122-39-4 | Benzeneamine, N-phenyl- | 8270 | 10. |
| Disulfoton | 298-04-4 | Phosphorodithioic acid, O,O-diethyl S-2-(ethylthio)- S-[2-ethyl] ester | 8140<br>8270 | 2.<br>10. |
| Endosulfan I | 959-98-8 | 6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide, (3alpha, 5alphabeta, 6alpha, 9alpha, 9alphabeta)- | 8080<br>8250 | 0.1<br>10. |
| Endosulfan II | 33213-65-9 | 6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide, (3alpha, 5aalpha, 6beta, 9beta, 9aalpha)- | 8080 | 0.05 |
| Endosulfan sulfate | 1031-07-8 | 6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3,3-dioxide | 8080<br>8270 | 0.5<br>10. |
| Endrin | 72-20-8 | 2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha, 2beta, 2abeta, 3alpha, 6alpha, 6alphabeta, 7beta, 7aalpha)- | 8080<br>8250 | 0.1<br>10. |
| Endrin aldehyde | 7421-93-4 | 1,2,4-Methanocyclopenta[cd]pentalene-5-carboxaldehyde, 2,2a,3,3,4,7-hexachlorodecahydro-, (1alpha, 2beta, 2abeta, 4beta, 4abeta, 5beta, 6abeta, 6bbeta, 7R)- | 8080<br>8270 | 0.2<br>10. |
| Ethylbenzene | 100-41-4 | Benzene, ethyl- | 8020<br>8240 | 2.<br>5. |
| Ethyl methacrylate | 97-63-2 | 2-Propenoic acid, 2-methyl-, ethyl ester | 8015<br>8240<br>8270 | 10.<br>5.<br>10. |
| Ethyl methanesulfonate | 62-50-0 | Methansulfonic acid, ethyl ester | 8270 | 10. |
| Famphur | 52-85-7 | Phosphorothioic acid, O-[4-[(dimethylamino)sulfonyl]phenyl]-O,O-dimethyl ester | 8270 | 10. |
| Fluoranthene | 206-44-0 | Fluoranthene | 8100<br>8270 | 200.<br>10. |
| Fluorene | 86-73-7 | 9H-Fluorene | 8100<br>8270 | 200.<br>10. |
| Heptachlor | 76-44-8 | 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- | 8080<br>8270 | 0.05<br>10. |
| Heptachlor epoxide | 1024-57-3 | 2,5-Methano-2H-indeno[1,2-b]oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-, (1aalpha, 1bbeta, 2alpha, 5alpha, 5abeta, 6beta, 6aalpha)- | 8080<br>8270 | 1.<br>10. |

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| Hexachlorobenzene | 118-74-1 | Benzene, hexachloro- | 8120 | 0.5 |
| | | | 8270 | 10. |
| Hexachlorobutadiene | 87-68-3 | 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 8120 | 5. |
| | | | 8270 | 10. |
| Hexachlorocyclopentadiene | 77-47-4 | 1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro- | 8120 | 5. |
| | | | 8270 | 10. |
| Hexachloroethane | 67-72-1 | Ethane, hexachloro- | 8120 | 0.5 |
| | | | 8270 | 10. |
| Hexachlorophene | 70-30-4 | Phenol, 2,2'-methylenebis[3,4,6-trichloro- | 8270 | 10. |
| Hexachloropropene | 1888-71-7 | 1-Propene, 1,1,2,3,3,3-hexachloro- | 8270 | 10. |
| 2-Hexanone | 591-78-6 | 2-Hexanone | 8240 | 50. |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | Indeno(1,2,3-cd)pyrene | 8100 | 200. |
| | | | 8270 | 10. |
| Isobutyl alcohol | 78-83-1 | 1-Propanol, 2-methyl- | 8015 | 50. |
| Isodrin | 465-73-6 | 1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-(1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)- | 8270 | 10. |
| Isophorone | 78-59-1 | 2-Cyclohexen-1-one, 3,5,5-trimethyl- | 8090 | 60. |
| | | | 8270 | 10. |
| Isosafrole | 120-58-1 | 1,3-Benzodioxole, 5-(1-propenyl)- | 8270 | 10. |
| Kepone | 143-50-0 | 1,3,4-Metheno-2H-cyclobuta-[c,d]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro- | 8270 | 10. |
| Lead | (Total) | Lead | 6010 | 40. |
| | | | 7420 | 1000. |
| | | | 7421 | 10. |
| Mercury | (Total) | Mercury | 7470 | 2. |
| Methacrylonitrile | 126-96-7 | 2-Propeneitrile, 2-methyl- | 8015 | 5. |
| | | | 8240 | 5. |
| Methapyrilene | 91-80-5 | 1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)- | 8270 | 10. |
| Methoxychlor | 72-43-5 | Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-methoxy- | 8080 | 2. |
| | | | 8270 | 10. |
| Methyl bromide; Bromomethane | 74-83-9 | Methane, bromo- | 8010 | 20. |
| | | | 8240 | 10. |
| Methyl chloride; Chloromethane | 74-87-3 | Methane, chloro- | 8010 | 1. |
| | | | 8240 | 10. |
| 3-Methylcholanthrene | 56-49-5 | Benz[j]aceanthrylene, 1,2-dihydro-3-methyl- | 8270 | 10. |
| Methylene bromide; Dibromomethane | 74-95-3 | Methane, dibromo- | 8010 | 15. |
| | | | 8240 | 5. |
| Methylene chloride; Dichloromethane | 75-09-2 | Methane, dichloro- | 8010 | 5. |
| | | | 8240 | 5. |
| Methyl ethyl ketone; MEK | 78-93-3 | 2-Butanone | 8015 | 10. |
| | | | 8240 | 100. |
| Methyl iodide; Iodomethane | 74-88-4 | Methane, iodo- | 8010 | 40. |
| | | | 8240 | 5. |

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| Methyl methacrylate | 80-62-6 | 2-Propenoic acid, 2-methyl-, methyl ester | 8015 | 2. |
| | | | 8240 | 5. |
| Methyl methanesulfonate | 66-27-3 | Methanesulfonic acid, methyl ester | 8270 | 10. |
| 2-Methylnaphthalene | 91-57-6 | Naphthylene, 2-methyl- | 8270 | 10. |
| Methyl parathion; Parathion methyl | 298-00-0 | Phosphorothioic acid, 0,0-dimethyl 0-(4-nitrophenyl) ester | 8140 | 0.5 |
| | | | 8270 | 10. |
| 4-Methyl-2-pentanone; Methyl isobutyl ketone | 108-10-1 | 2-Pentanone, 4-methyl- | 8015 | 5. |
| | | | 8240 | 50. |
| Naphthalene | 91-20-3 | Naphthalene | 8100 | 200. |
| | | | 8270 | 10. |
| 1,4-Naphthoquinone | 130-15-4 | 1,4-Naphthalenedione | 8270 | 10. |
| 1-Naphthylamine | 134-32-7 | 1-Naphthalenamine | 8270 | 10. |
| 2-Naphthylamine | 91-59-8 | 2-Naphthalenamine | 8270 | 10. |
| Nickel | (Total) | Nickel | 6010 | 50. |
| | | | 7520 | 400. |
| o-Nitroaniline | 88-74-4 | Benzenamine, 2-nitro- | 8270 | 50. |
| m-Nitroaniline | 99-09-2 | Benzenamine, 3-nitro- | 8270 | 50. |
| p-Nitroaniline | 100-01-6 | Benzenamine, 4-nitro- | 8270 | 50. |
| Nitrobenzene | 98-95-3 | Benzene, nitro- | 8090 | 40. |
| | | | 8270 | 10. |
| o-Nitrophenol | 88-75-5 | Phenol, 2-nitro- | 8040 | 5. |
| | | | 8270 | 10. |
| p-Nitrophenol | 100-02-7 | Phenol, 4-nitro- | 8040 | 10. |
| | | | 8270 | 50. |
| 4-Nitroquinoline 1-oxide | 56-57-5 | Quinoline, 4-nitro-, 1-oxide | 8270 | 10. |
| N-Nitrosodi-n-butylamine | 924-16-3 | 1-Butanamine, N-butyl-N-nitroso- | 8270 | 10. |
| N-Nitrosodiethylamine | 55-18-5 | Ethanamine, N-ethyl-N-nitroso- | 8270 | 10. |
| N-Nitrosodimetnylamine | 62-75-9 | Methanamine, N-methyl-N-nitroso- | 8270 | 10. |
| N-Nitrosodiphenylamine | 86-30-6 | Benzenamine, N-nitroso-N-phenyl- | 8270 | 10. |
| N-Nitrosodipropylamine; Di-n-propylnitrosamine | 621-64-7 | 1-Propanamine, N-nitroso-N-propyl- | 8270 | 10. |
| N-Nitrosomethylethylamine | 10595-95-6 | Ethanamine, N-methyl-N-nitroso- | 8270 | 10. |
| N-Nitrosomorpholine | 59-89-2 | Morpholine, 4-nitroso- | 8270 | 10. |
| N-Nitrosopiperidene | 100-75-4 | Piperidene, 1-nitroso- | 8270 | 10. |
| N-Nitrosopyrrolidine | 930-55-2 | Pyrrolidine, 1-nitroso- | 8270 | 10. |
| 5-Nitro-o-toluidine | 99-55-8 | Benzenamine, 2-methyl-5-nitro- | 8270 | 10. |
| Parathion | 56-38-2 | Phosphorothioic acid, 0,0-diethyl-0-(4-nitrophenyl) ester | 8270 | 10. |
| Polychlorinated biphenyls; PCBs | See (g) | 1,1'-Biphenyl, chloro derivatives | 8080 | 50. |
| | | | 8250 | 100. |
| Polychlorinated dibenzo-p-dioxins; PCDDs | See (h) | Dibenzo[b,e][1,4]dioxin, chloro derivatives | 8280 | 0.01 |
| Polychlorinated dibenzofurans; PCDFs | See (i) | Bibenzofuran, chloro derivatives | 8280 | 0.01 |
| Pentachlorobenzene | 608-93-5 | Benzene, pentachloro- | 8270 | 10. |
| Pentachloroethane | 76-01-7 | Ethane, pentachloro- | 8240 | 5. |
| | | | 8270 | 10. |
| Pentachloronitrobenzene | 82-68-8 | Benzene, pentachloronitro- | 8270 | 10. |
| Pentachlorophenol | 87-86-5 | Phenol, pentachloro- | 8040 | 5. |
| | | | 8270 | 50. |
| Phenacetin | 62-44-2 | Acetamide, N-(4-ethoxyphenyl) | 8270 | 10. |

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|---|---|---|---|---|
| Phenanthrene | 85-01-8 | Phenanthrene | 8100 | 200. |
| | | | 8270 | 10. |
| Phenol | 108-95-2 | Phenol | 8040 | 1. |
| | | | 8270 | 10. |
| p-Phenylenediamine | 106-50-3 | 1,4-Benzenediamine | 8270 | 10. |
| Phorate | 298-02-2 | Phosphorodithioic acid, 0,0-diethyl S-[(ethylthio)methyl] ester | 8140 | 2. |
| | | | 8270 | 10. |
| 2-Picoline | 109-06-8 | Pyridine, 2-methyl- | 8240 | 5. |
| | | | 8270 | 10. |
| Pronamide | 23950-58-5 | Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propenyl)- | 8270 | 10. |
| Propionitrile; Ethyl cyanide | 107-12-0 | Propanenitrile | 8015 | 60. |
| | | | 8240 | 5. |
| Pyrene | 129-00-0 | Pyrene | 8100 | 200. |
| | | | 8270 | 10. |
| Pyridine | 110-86-1 | Pyridine | 8240 | 5. |
| | | | 8270 | 10. |
| Safrole | 94-59-7 | 1,3-Benzodioxole, 5-(2-propenyl)- | 8270 | 10. |
| Selenium | (Total) | Selenium | 6010 | 750. |
| | | | 7740 | 20. |
| | | | 7741 | 20. |
| Silver | (Total) | Silver | 6010 | 70. |
| | | | 7780 | 100. |
| Silvex; 2,4,5-TP | 93-72-1 | Propanoic acid, 2-(2,4,5-trichloropnenoxy)- | 8150 | 2. |
| Styrene | 100-42-5 | Benzene, ethenyl- | 8020 | 1. |
| | | | 8240 | 5. |
| Sulfide | 18496-25-8 | Sulfide | 9030 | 10000. |
| 2,4,5-T; 2,4,5-Trichlorophenoxyacetic acid | 93-76-5 | Acetic acid, (2,4,5-trichlorophenoxy)- | 8150 | 2. |
| 2,3,7,8-TCDD; 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1746-01-8 | Dibenzo[b,e][1,4]dioxin, 2,3,7,8-tetrachloro- | 8280 | 0.005 |
| 1,2,4,5-Tetrachlorobenzene | 95-94-3 | Benzene, 1,2,4,5-tetrachloro- | 8270 | 10. |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | Ethane, 1,1,1,2-tetrachloro- | 8010 | 5. |
| | | | 8240 | 5. |
| 1,1,2,2,-Tetrachloroethane | 79-34-5 | Ethane, 1,1,2,2-tetrachloro- | 8010 | 0.5 |
| | | | 8240 | 5. |
| Tetrachloroethylene; Perchloroethylene; Tetrachloroethene | 127-18-4 | Ethene, tetrachloro- | 8010 | 0.5 |
| | | | 8240 | 5. |
| 2,3,4,6-Tetrachlorophenol | 58-90-2 | Phenol, 2,3,4,6-tetrachloro- | 8270 | 10. |
| Tetraethyl dithiopyrophosphate; Sulfotapp | 3689-24-5 | Thiodiphosphoric acid ($[(HO)_2P(S)]_2O$), tetraethyl ester | 8270 | 10. |
| Thallium | (Total) | Thallium | 8010 | 400. |
| | | | 7840 | 1000. |
| | | | 7841 | 10. |
| Tin | (Total) | Tin | 7870 | 8000. |
| Toluene | 108-88-3 | Benzene, methyl- | 8020 | 2. |
| | | | 8240 | 5. |
| o-Toluidine | 95-53-4 | Benzenamine, 2-methyl- | 8270 | 10. |

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| Toxaphene | 8001-35-2 | Toxaphene | 8080 | 2. |
| | | | 8250 | 10. |
| 1,2,4-Trichlorobenzene | 120-82-1 | Benzene, 1,2,4-trichloro- | 8270 | 10. |
| 1,1,1-Trichloroethane; Methyl chloroform | 71-65-6 | Ethane, 1,1,1-trichloro- | 8240 | 5. |
| 1,1,2-Trichloroethane | 79-00-5 | Ethane, 1,1,2-trichloro- | 8010 | 0.2 |
| | | | 8240 | 5. |
| Trichloroethylene; Trichloroethene | 79-01-6 | Ethene, trichloro- | 8010 | 1. |
| | | | 8240 | 5. |
| Trichlorofluoromethane | 75-89-4 | Methane, trichlorofluoro- | 8010 | 10. |
| | | | 8240 | 5. |
| 2,4,5-Trichlorophenol | 95-96-4 | Phenol, 2,4,5-trichloro- | 8270 | 10. |
| 2,4,6-Trichlorophenol | 88-06-2 | Phenol, 2,4,6-trichloro- | 8040 | 5. |
| | | | 8270 | 10. |
| 1,2,3-Trichloropropane | 96-18-4 | Propane, 1,2,3-trichloro- | 8010 | 10. |
| | | | 8240 | 5. |
| 0,0,0-Triethyl phosphorothioate | 126-68-1 | Phosphorothioic acid, 0,0,0-triethyl ester | 8270 | 10. |
| sym-Trinitrobenzene | 99-35-4 | Benzene, 1,3,5-trinitro- | 8270 | 10. |
| Vanadium | (Total) | Vanadium | 6010 | 80. |
| | | | 7910 | 2000. |
| | | | 7911 | 40. |
| Vinyl acetate | 106-05-4 | Acetic acid, ethenyl ester | 8240 | 5. |
| Vinyl chloride | 75-01-4 | Ethene, chloro- | 8010 | 2. |
| | | | 8240 | 10. |
| Xylene (total) | 1330-20-7 | Benzene, dimethyl- | 8020 | 5. |
| | | | 8240 | 5. |
| Zinc | (Total) | Zinc | 6010 | 20. |
| | | | 7950 | 50. |

(Source: Added at 12 Ill. Reg. , effective )

(Page numbers 93-104 are omitted)

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE G: WASTE DISPOSAL
CHAPTER I: POLLUTION CONTROL BOARD
SUBCHAPTER c: HAZARDOUS WASTE OPERATING REQUIREMENTS

PART 725
INTERIM STATUS STANDARDS FOR OWNERS AND OPERATORS OF HAZARDOUS WASTE TREATMENT, STORAGE AND DISPOSAL FACILITIES

SUBPART A: GENERAL PROVISIONS



SUBPART B: GENERAL FACILITY STANDARDS



SUBPART C: PREPAREDNESS AND PREVENTION



SUBPART D: CONTINGENCY PLAN AND EMERGENCY PROCEDURES



SUBPART E: MANIFEST SYSTEM, RECORDKEEPING AND REPORTING

SUBPART F: GROUNDWATER MONITORING



SUBPART G: CLOSURE AND POST-CLOSURE



SUBPART H: FINANCIAL REQUIREMENTS



SUBPART I: USE AND MANAGEMENT OF CONTAINERS



SUBPART J: TANK SYSTEMS

SUBPART O: INCINERATORS



SUBPART P: THERMAL TREATMENT



SUBPART Q: CHEMICAL, PHYSICAL AND BIOLOGICAL TREATMENT



SUBPART R: UNDERGROUND INJECTION



AUTHORITY: Implementing Section 22.4 and authorized by Section 27 of the Environmental Protection Act (Ill. Rev. Stat. 1985, ch. 111-1/2, pars. 1022.4 and 1027).

SOURCE: Adopted in R81-22, 43 PCB 427, at 5 Ill. Reg. 9781, effective as noted in 35 Ill. Adm. Code 700.106; amended and codified in R81-22, 45 PCB 317, at 6 Ill. Reg. 4828, effective as noted in 35 Ill. Adm. Code 700.106;

amended in R82-18, 51 PCB 831, at 7 Ill. Reg. 2518, effective February 22, 1983; amended in R82-19, 53 PCB 131, at 7 Ill. Reg. 14034, effective October 12, 1983; amended in R84-9, at 9 Ill. Reg. 11869, effective July 24, 1985; amended in R85-22 at 10 Ill. Reg. 1085, effective January 2, 1986; amended in R86-1 at 10 Ill. Reg. 14069, effective August 12, 1986; amended in R86-28 at 11 Ill. Reg. 6044, effective March 24, 1987; amended in R86-46 at 11 Ill. Reg. 13489, effective August 4, 1987; amended in R87-5 at 11 Ill. Reg. 19338, effective November 10, 1987; amended in R87-26 at 12 Ill. Reg. 2485, effective January 15, 1988; amended in R87-39 at 12 Ill. Reg. , effective .

## SUBPART A: GENERAL PROVISIONS

Section 725.101 Purpose, Scope and Applicability

a) The purpose of this Part is to establish minimum standards which define the acceptable management of hazardous waste during the period of interim status and until certification of final closure or, if the facility is subject to post-closure requirements, until post-closure responsibilities are fulfilled.

b) The standards in this Part apply to owners and operators of facilities which treat, store or dispose of hazardous waste who have fully complied with the requirements for interim status under Section 3005(e) of the Resource Conservation and Recovery Act (RCRA) (42 U.S.C. 6901 et seq.) and 35 Ill. Adm. Code 703, until either a permit is issued under Section 3005 of the Resource Conservation and Recovery Act or Section 21(f) of the Environmental Protection Act, or until applicable closure and post-closure responsibilities under this Part are fulfilled, and to those owners and operators of facilities in existence on November 19, 1980, who have failed to provide timely notification as required by Section 3010(a) of RCRA, or failed to file Part A of the Permit Application as required by 40 CFR 270.10(e) and (g) or 35 Ill. Adm. Code 703.150 and 703.152. These standards apply to all treatment, storage or disposal of hazardous waste at these facilities after November 19, 1980, except as specifically provided otherwise in this Part or 35 Ill. Adm. Code 721;

(Board Note: As stated in Section 3005(a) of RCRA, after the effective date of regulations under that Section, i.e., 40 CFR 270 and 124, the treatment, storage or disposal of hazardous waste is prohibited except in accordance with a permit. Section 3005(e) of RCRA provides for the continued operation of an existing facility which meets certain conditions until final administrative disposition of the owner's and operator's permit application is made. 35 Ill. Adm. Code 703.140 et seq. provide that a permit is deemed issued under Section 21(f)(1) of the Environmental Protection Act under conditions similar to federal interim status.)

c) The requirements of this Part do not apply to:

1) A person disposing of hazardous waste by means of ocean disposal subject to a permit issued under the Marine Protection, Research and Sanctuaries Act (16 U.S.C. 1431-1434; 33 U.S.C. 1401);

(Board Note: This Part applies to the treatment or storage of hazardous waste before it is loaded into an ocean vessel for incineration or disposal at sea, as provided in subsection (b).)

~~2) A person disposing of hazardous waste by means of underground injection subject to an Underground Injection Control (UIC) permit issued under 35 Ill. Adm. Code 704;~~

~~(Board Note: This Part applies to the above ground treatment or storage of hazardous waste before it is injected underground. This Part also applies to the disposal of hazardous waste by means of underground injection, as provided in subsection (b), until final administrative disposition of a person's permit application is made under 35 Ill. Adm. Code 703 or 704.)~~

3) The owner or operator of a POTW (publicly owned treatment works) which treats, stores or disposes of hazardous waste;

(Board Note: The owner or operator of a facility under subsections (c)(1) through (c)(3) is subject to the requirements of 35 Ill. Adm. Code 724 to the extent they are included in a permit by rule granted to such a person under 35 Ill. Adm. Code 702 and 703 or are required by 35 Ill. Adm. Code 704.Subpart F.)

5) The owner or operator of a facility permitted, licensed or registered by Illinois to manage municipal or industrial solid waste, if the only hazardous waste the facility treats, stores or disposes of is excluded from regulation under this Part by 35 Ill. Adm. Code 721.105;

6) The owner or operator of a facility managing recyclable materials described in 35 Ill. Adm. Code 721.106(a)(2) and (3) (except to the extent that requirements of this Part are referred to in 35 Ill. Adm. Code 726.Subparts C, D, F or G;

7) A generator accumulating waste on-site in compliance with 35 Ill. Adm. Code 722.134, except to the extent the requirements are included in 35 Ill. Adm. Code 722.134;

8) A farmer disposing of waste pesticides from his own use in compliance with 35 Ill. Adm. Code 722.151;

9) The owner or operator of a totally enclosed treatment facility, as defined in 35 Ill. Adm. Code 720.110;

10) The owner or operator of an elementary neutralization unit or a wastewater treatment unit as defined in 35 Ill. Adm. Code 720.110;

11) Immediate response:

A) Except as provided in subsection (c)(11)(B), a person engaged in treatment or containment activities during

immediate response to any of the following situations:

i) A discharge of a hazardous waste;

ii) An imminent and substantial threat of a discharge of a hazardous waste;

iii) A discharge of a material which, when discharged, becomes a hazardous waste.

B) An owner or operator of a facility otherwise regulated by this Part must comply with all applicable requirements of Subparts C and D.

C) Any person who is covered by subsection (c)(11)(A) and who continues or initiates hazardous waste treatment or containment activities after the immediate response is over is subject to all applicable requirements of this Part and 35 Ill. Adm. Code 702, 703 and 705 for those activities.

12) A transporter storing manifested shipments of hazardous waste in containers meeting the requirements of 35 Ill. Adm. Code 722.130 at a transfer facility for a period of ten days or less.

13) The addition of absorbent material to waste in a container (as defined in 35 Ill. Adm. Code 720.110), or the addition of waste to the absorbent material in a container, provided that these actions occur at the time waste is first placed in the containers; and Sections 725.117(b), 725.271 and 725.272 are complied with.

d) The following hazardous wastes must not be managed at facilities subject to regulation under this Part: hazardous waste numbers F020, F021, F022, F023, F026 or F027 unless:

1) The wastewater treatment sludge is generated in a surface impoundment as part of the plant's wastewater treatment system;

2) The waste is stored in tanks or containers;

3) The waste is stored or treated in waste piles that meet the requirements of 35 Ill. Adm. Code 724.350(c) as well as all other applicable requirements of Subpart L;

4) The waste is burned in incinerators that are certified pursuant to the standards and procedures in Section 725.452; or

5) The waste is burned in facilities that thermally treat the waste in a device other than an incinerator and that are certified pursuant to the standards and procedures in Section 725.483.

e) This Part applies to owners and operators of facilities which treat, store or dispose of hazardous wastes referred to in 35 Ill. Adm. Code 728.

f) 35 Ill. Adm. Code 700 contains rules concerning application of other Board regulations.

(Source: Amended at 12 Ill. Reg. , effective )

SUBPART B: GENERAL FACILITY STANDARDS

Section 725.113 General Waste Analysis

a) Waste analysis:

1) Before an owner or operator treats, stores or disposes of any hazardous waste, the owner or operator shall obtain a detailed chemical and physical analysis of a representative sample of the waste. At a minimum, this analysis must contain all the information which must be known to treat, store or dispose of the waste in accordance with the requirements of this Part and 35 Ill. Adm. Code 728.

2) The analysis may include data developed under 35 Ill. Adm. Code 721 and existing published or documented data on the hazardous waste or on waste generated from similar processes.

(Board Note: For example, the facility's record of analyses performed on the waste before the effective date of these regulations or studies conducted on hazardous waste generated from processes similar to that which generated the waste to be managed at the facility may be included in the data base required to comply with subsection (a)(1). The owner or operator of an off-site facility may arrange for the generator of the hazardous waste to supply part or all of the information required by subsection (a)(1). If the generator does not supply the information and the owner or operator chooses to accept a hazardous waste, the owner or operator is responsible for obtaining the information required to comply with this Section.)

3) The analysis must be repeated as necessary to insure that it is accurate and up-to-date. At a minimum, the analysis must be repeated:

A) When the owner or operator is notified, or has reason to believe, that the process or operation generating the hazardous waste has changed; and

B) For off-site facilities, when the results of the inspection required in subsection (a)(4) indicate that the hazardous waste received at the facility does not match the waste designated on the accompanying manifest or shipping paper.

4) The owner or operator of an off-site facility shall inspect and, if necessary, analyze each hazardous waste movement received at the facility to determine whether it matches the identity of the waste specified on the accompanying manifest or shipping paper.

b) The owner or operator shall develop and follow a written waste analysis plan which describes the procedures which the owner or operator will carry out to comply with subsection (a). The owner or operator shall keep this plan at the facility. At a minimum, the plan must specify:

1) The parameters for which each hazardous waste will be analyzed and the rationale for the selection of these parameters (i.e., how analysis for these parameters will provide sufficient information on the waste's properties to comply with subsection (a).

2) The test methods which will be used to test for these parameters.

3) The sampling method which will be used to obtain a representative sample of the waste to be analyzed. A representative sample may be obtained using either:

A) One of the sampling methods described in 35 Ill. Adm. Code 721.Appendix A or

B) An equivalent sampling method.

(Board Note: See 35 Ill. Adm. Code 720.120(c) for related discussion.)

4) The frequency with which the initial analysis of the waste will be reviewed or repeated to ensure that the analysis is accurate and up-to-date.

5) For off-site facilities, the waste analyses that hazardous waste generators have agreed to supply.

6) Where applicable, the methods which will be used to meet the additional waste analysis requirements for specific waste management methods as specified in Sections 725.293, 725.325, 725.352, 725.373, 725.414, 725.441, 725.475 and 725.502, and 35 Ill. Adm. Code 728.107. And,

7) For surface impoundments exempted from land disposal restrictions under 35 Ill. Adm. Code 728.104(a), the procedures and schedules for:

A) The sampling of impoundment contents;

B) The analysis of test data; and,

C) The annual removal of ~~-residue which does~~-residues which are not delisted under 35 Ill. Adm. Code 720.122 and do not exhibit a characteristic of hazardous waste, and which do not meet the standards of 35 Ill. Adm. Code 728.Subpart D or, where no treatment standards have been established, the

annual removal of residues which do not meet the applicable prohibition levels in 35 Ill. Adm. Code 728.Subpart C.

c) For off-site facilities, the waste analysis plan required in subsection (b) must also specify the procedures which will be used to inspect and, if necessary, analyze each movement of hazardous waste received at the facility to ensure that it matches the identity of the waste designated on the accompanying manifest or shipping paper. At a minimum, the plan must describe:

1) The procedures which will be used to determine the identity of each movement of waste managed at the facility; and

2) The sampling method which will be used to obtain a representative sample of the waste to be identified, if the identification method includes sampling.

(Source: Amended at 12 Ill. Reg. , effective )

SUBPART H: FINANCIAL REQUIREMENTS

Section 725.247 Liability Requirements

a) Coverage for sudden accidental occurrences. An owner or operator of a hazardous waste treatment, storage or disposal facility, or a group of such facilities, shall demonstrate financial responsibility for bodily injury and property damage to third parties caused by sudden accidental occurrences arising from operations of the facility or group of facilities. The owner or operator shall have and maintain liability coverage for sudden accidental occurrences in the amount of at least $1 million per occurrence with an annual aggregate of at least $2 million, exclusive of legal defense costs. This liability coverage may be demonstrated in one of three ways, as specified in subsections (a)(1), (a)(2) and (a)(3):

1) An owner or operator may demonstrate the required liability coverage by having liability insurance as specified in this paragraph.

A) Each insurance policy must be amended by attachment of the Hazardous Waste Facility Liability Endorsement or evidenced by a Certificate of Liability Insurance. The wording of the endorsement must be as specified in 35 Ill. Adm. Code 724.251. The wording of the certificate of insurance must be as specified in 35 Ill. Adm. Code 724.251. The owner or operator shall submit a signed duplicate original of the endorsement or the certificate of insurance to the Agency. If requested by the Agency, the owner or operator shall provide a signed duplicate original of the insurance policy.

B) Each insurance policy must be issued by an insurer which, at a minimum, is licensed to transact the business of insurance, or eligible to provide insurance as an excess or

surplus lines insurer, in one or more states.

2) An owner or operator may meet the requirements of this Section by passing a financial test or using the corporate guarantee for liability coverage as specified in subsections (f) and (g).

3) An owner or operator may demonstrate the required liability coverage through use of the financial test, insurance, the corporate guarantee, a combination of the financial test and insurance or a combination of the corporate guarantee and insurance. The amounts of coverage demonstrated must total at least the minimum amounts required by this subsection.

b) Coverage for nonsudden accidental occurrences. An owner or operator of a surface impoundment, landfill or land treatment facility which is used to manage hazardous waste, or a group of such facilities, shall demonstrate financial responsibility for bodily injury and property damage to third parties caused by nonsudden accidental occurrences arising from operations of the facility or group of facilities. The owner or operator shall have and maintain liability coverage for nonsudden accidental occurrences in the amount of at least $3 million per occurrence with an annual aggregate of at least $6 million, exclusive of legal defense costs. This liability coverage may be demonstrated in one of three ways, as specified in subsections (b)(1), (b)(2), and (b)(3):

1) An owner or operator may demonstrate the required liability coverage by having liability insurance as specified in this paragraph.

A) Each insurance policy must be amended by attachment of the Hazardous Waste Facility Liability Endorsement or evidence by a Certificate of Liability Insurance. The wording of the endorsement must be as specified in 35 Ill. Adm. Code 724.251. The wording of the certificate of insurance must be as specified in 35 Ill. Adm. Code 724.251. The owner or operator shall submit a signed duplicate original of the endorsement or the certificate of insurance to the Agency. If requested by the Agency, the owner or operator shall provide a signed duplicate original of the insurance policy.

B) Each insurance policy must be issued by an insurer which, at a minimum, is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer in one or more states.

2) An owner or operator may meet the requirements of this Section by passing a financial test or using the corporate guarantee for liability coverage as specified in subsections (f) and (g).

3) An owner or operator may demonstrate the required liability coverage through use of the financial test, insurance, the corporate guarantee, a combination of the financial test and

insurance or a combination of the corporate guarantee and insurance. The amounts of coverage must total at least the minimum amounts required by this paragraph.

c) Request for adjusted level of required liability coverage. If an owner or operator demonstrates to the Agency that the levels of financial responsibility required by subsections (a) or (b) are not consistent with the degree and duration of risk associated with treatment, storage or disposal at the facility or group of facilities, the owner or operator may obtain an adjusted level of required liability coverage from the Agency. The request for an adjusted level of required liability coverage must be submitted in writing to the Agency. If granted, the Agency's action will take the form of an adjusted level of required liability coverage, such level to be based on the Agency assessment of the degree and duration of risk associated with the ownership or operation of the facility or group of facilities. The Agency may require an owner or operator who requests an adjusted level of required liability coverage to provide such technical and engineering information as is necessary to determine a level of financial responsibility other than that required by subsection (a) or (b). The Agency shall process any request for an adjusted level of required liability coverage as if it were a permit modification request under 35 Ill. Adm. Code 702.184(e)(3) and 705.128. Notwithstanding any other provision, the Agency shall hold a public hearing whenever it finds, on the basis of requests, a significant degree of public interest in a tentative decision to grant an adjusted level of required liability insurance. The Agency may also hold a public hearing at its discretion whenever such a hearing might clarify one or more issues involved in the tentative decision.

d) Adjustments by the Agency. If the Agency determines that the levels of financial responsibility required by subsection (a) or (b) are not consistent with the degree and duration of risk associated with treatment, storage or disposal at the facility or group of facilities, the Agency shall adjust the level of financial responsibility required under subsection (a) or (b) as may be necessary to protect human health and the environment. This adjusted level shall be based on the Agency's assessment of the degree and duration of risk associated with the ownership or operation of the facility or group of facilities. In addition, if the Agency determines that there is a significant risk to human health and the environment from nonsudden accidental occurrences resulting from the operations of a facility that is not a surface impoundment, landfill or land treatment facility, the Agency may require that an owner or operator of the facility comply with subsection (b). An owner or operator shall furnish to the Agency, within a time specified by the Agency in the request, which shall not be less than 30 days, any information which the Agency requests to determine whether cause exists for such adjustments of level or type of coverage. The Agency shall process any request for an adjusted level of required liability coverage as if it were a permit modification request under 35 Ill. Adm. Code 702.184(e)(3) and 705.128. Notwithstanding any other provision, the Agency shall hold a public hearing whenever it finds,

on the basis of requests, a significant degree of public interest in a tentative decision to grant an adjusted level of required liability insurance. The Agency may also hold a public hearing at its discretion whenever such a hearing might clarify one or more issues involved in the tentative decision.

e) Period of coverage. Within 60 days after receiving certifications from the owner or operator and an independent registered professional engineer that final closure has been completed in accordance with the approved closure plan, the Agency shall notify the owner or operator in writing that the owner or operator is no longer required by this Section to maintain liability coverage for that facility, unless the Agency determines that closure has not been in accordance with the approved closure plan.

f) Financial test for liability coverage.

1) An owner or operator may satisfy the requirements of this Section by demonstrating that the owner or operator passes a financial test as specified in this paragraph. To pass this test the owner or operator shall meet the criteria of subsection (f)(1)(A) or (f)(1)(B):

A) The owner or operator shall have:

i) Net working capital and tangible net worth each at least six times the amount of liability coverage to be demonstrated by this test; and

ii) Tangible net worth of at least $10 million; and

iii) Assets in the United States amounting to either: at least 90 percent of total assets; or at least six times the amount of liability coverage to be demonstrated by this test.

B) The owner or operator shall have:

i) A current rating for the owner or operator's most recent bond issuance of AAA, AA, A or BBB as issued by Standard and Poor's, or Aaa, Aa, A or Baa as issued by Moody's; and

ii) Tangible net worth of at least $10 million; and

iii) Tangible net worth at least six times the amount of liability coverage to be demonstrated by this test; and

iv) Assets in the United States amounting to either: at least 90 percent of total assets; or at least six times the amount of liability coverage to be demonstrated by this test.

2) The phrase "amount of liability coverage" as used in subsection (f)(1) refers to the annual aggregate amounts for which coverage is required under subsections (a) and (b).

3) To demonstrate that the owner or operator meets this test, the owner or operator shall submit the following three items to the Agency:

A) A letter signed by the owner's or operator's chief financial officer and worded as specified in 35 Ill. Adm. Code 724.251. If an owner or operator is using the financial test to demonstrate both assurance for closure or post-closure care, as specified by 35 Ill. Adm. Code 724.243(f) and 724.245(f), or by Sections 725.243(e) and 725.245(e), and liability coverage, it shall submit the letter specified in 35 Ill. Adm. Code 724.251 to cover both forms of financial responsibility; a separate letter as specified in 35 Ill. Adm. Code 724.251 is not required.

B) A copy of the independent certified public accountant's report on examination of the owner's or operator's financial statements for the latest completed fiscal year.

C) A special report from the owner's or operator's independent certified public accountant to the owner or operator stating that:

i) The accountant has compared the data which the letter from the chief financial officer specifies as having been derived from the independently audited, year-end financial statements for the latest fiscal year with the amounts in such financial statements; and

ii) In connection with that procedure, no matters came to the accountant's attention which caused the accountant to believe that the specified data should be adjusted.

5) After the initial submission of items specified in subsection (f)(3), the owner of operator shall send updated information to the Agency within 90 days after the close of each succeeding fiscal year. This information must consist of all three items specified in subsection (f)(3).

6) If the owner or operator no longer meets the requirements of subsection (f)(1), the owner or operator shall obtain insurance for the entire amount of required liability coverage as specified in this Section. Evidence of insurance must be submitted to the Agency within 90 days after the end of the fiscal year for which the year-end financial data show that the owner or operator no longer meets the test requirements.

7) The Agency may disallow use of this test on the basis of qualifications in the opinion expressed by the independent certified public accountant in the accountant's report on

examination of the owner's or operator's financial statements (see subsection (f)(3)(B)). An adverse opinion or a disclaimer of opinion will be cause for disallowance. The Agency shall evaluate other qualifications on an individual basis. The owner or operator shall provide evidence of insurance for the entire amount of required liability coverage as specified in this Section within 30 days after notification of disallowance.

g) Corporate guarantee for liability coverage.

1) Subject to subsection (g)(2), an owner or operator may meet the requirements of this Section by obtaining a written guarantee, referred to as a "corporate guarantee." The guarantor must be the parent corporation of the owner or operator. The guarantor must meet the requirements for owners and operators in subsections (f)(1) through (f)(7). The wording of the corporate guarantee must be as specified in Section 724.251. A certified copy of the corporate guarantee must accompany the items sent to the Agency as specified in subsection (f)(3). The terms of the corporate guarantee must provide that:

A) If the owner or operator fails to satisfy a judgment based on a determination of liability for bodily injury or property damage to third parties caused by sudden or nonsudden accidental occurences (or both as the case may be), arising from the operation of facilities covered by this corporate guarantee, or fails to pay an amount agreed to in settlement of claims arising from or alleged to arise from such injury or damage, the guarantor will do so up to the limits of coverage.

B) The corporate guarantee will remain in force unless the guarantor sends notice of cancellation by certified mail to the owner or operator and to the Agency. The guarantee shall not be terminated unless and until the Agency approves alternate liability coverage complying with Section 724.247 or 35 Ill. Adm. Code 725.247.

2) The guarantor shall execute the guarantee in Illinois. The guarantee shall be accompanied by a letter signed by the guarantor which states that:

A) The guarantee was signed in Illinois by an authorized agent of the guarantor;

B) The guarantee is governed by Illinois law; and

C) ~~-The guarantor submits to the jurisdiction of Illinois courts for purposes of enforcement of the guarantee.~~ -The name and address of the guarantor's registered agent for service of process.

3) The guarantor shall have a registered agent pursuant to Ill. Rev. Stat. 1985, ch. 32, par. 5.05.

(Source: Amended at 12 Ill. Reg. , effective )

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE G: WASTE DISPOSAL
CHAPTER I: POLLUTION CONTROL BOARD
SUBCHAPTER c: HAZARDOUS WASTE OPERATING REQUIREMENTS

PART 728
LAND DISPOSAL RESTRICTIONS

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Table A Constituent Concentration in Waste Extract
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Appendix C List of Halogenated Organic Compounds

AUTHORITY: Implementing Section 22.4 and authorized by Section 27 of the Environmental Protection Act (Ill. Rev. Stat. 1985, ch. 111 1/2, pars. 1022.4 and 1027).

SOURCE: Adopted in R87-5 at 11 Ill. Reg. 19354, effective November 12, 1987; amended in R87-39 at 12 Ill. Reg. , effective

SUBPART A: GENERAL

Section 728.101 Purpose, Scope and Applicability

a) This Part identifies hazardous wastes that are restricted from land disposal and defines those limited circumstances under which an otherwise prohibited waste may continue to be land disposed.

b) Except as specifically provided otherwise in this Part or 35 Ill. Adm. Code 721, the requirements of this Part apply to persons who generate or transport hazardous waste and to owners and operators of hazardous waste treatment, storage and disposal facilities.

c) Prohibited wastes may continue to be land disposed as follows:

1) Where persons have been granted an extension to the effective date of a prohibition under Subpart C or pursuant to Section 728.105, with respect to those wastes covered by the extension;

2) Where persons have been granted an exemption from a prohibition pursuant to a petition under Section 728.106, with respect to those wastes and units covered by the petition;

3) Until November 8, 1988, where the wastes are contaminated soil or debris resulting from a response action taken under Section 104 or 106 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) (42 U.S.C. 9601 et seq.) or under RCRA corrective action, as defined in Section 728.102; ~~or~~

4) Where the waste is generated by small quantity generators of less than 100 kilograms of non-acute hazardous wastes per month or less than one kilogram of acute hazardous waste per month, as defined in 35 Ill. Adm. Code 721.105~~.~~; or,

5) Where a farmer is disposing of waste pesticides in accordance with 35 Ill. Adm. Code 722.170.

d) This Part is cumulative with the land disposal restrictions of 35 Ill. Adm. Code 729. The Environmental Protection Agency (Agency) shall not issue a wastestream authorization pursuant to 35 Ill. Adm. Code 709 or Sections 22.6 or 39(h) of the Environmental Protection Act (Ill. Rev. Stat. 1985, ch. 111 1/2, pars. 1022.6 or 1039(h)) unless the waste meets the requirements of this Part as well as 35 Ill. Adm. Code 729.

(Source: Amended at 12 Ill. Reg. , effective )

Section 728.102 Definitions

a) When used in this Part the following terms have the meanings given below:

"Agency" means the Illinois Environmental Protection Agency.

"Board" means the Illinois Pollution Control Board.

"CERCLA" means the Comprehensive Environmental Response,

Compensation, and Liability Act of 1980 (42 U.S.C. 9601 et seq.)

"Halogenated organic compounds" or "HOCs" means those compounds having a carbon-halogen bond which are listed under Appendix C.

"Hazardous constituent or constituents" means those constituents listed in 35 Ill. Adm. Code 721.Appendix H.

"Land disposal" means placement in or on the land and includes, but is not limited to, placement in a landfill, surface impoundment, waste pile, injection well, land treatment facility, salt dome formation, salt bed formation, underground mine or cave, or placement in a concrete vault or bunker intended for disposal purposes.

"Polychlorinated biphenyls" or "PCBs" are halogenated organic compounds defined in accordance with 40 CFR 761.3, incorporated by reference in 35 Ill. Adm. Code 720.111

"ppm" means parts per million.

"RCRA corrective action" means corrective action taken under 35 Ill. Adm. Code 724.200 or 725.193, 40 CFR 264.100 or 265.93 (1987), or similar regulations in other States with RCRA programs authorized by USEPA pursuant to 40 CFR 271 (1986).

"USEPA" means the United States Environmental Protection Agency.

b) All other terms have the meanings given under 35 Ill. Adm. Code 702.110, 720.110, 720.102 or 721.103.

(Source: Amended at 12 Ill. Reg. , effective )

Section 728.103 Dilution Prohibited as a Substitute for Treatment

No generator, transporter, handler or owner or operator of a treatment, storage or disposal facility shall in any way dilute a restricted waste or the residual from treatment of a restricted waste as a substitute for adequate treatment to achieve compliance with Subpart D, to circumvent the effective date of a prohibition in Subpart C, to otherwise avoid a prohibition in Subpart C.

(Source: Amended at 12 Ill. Reg. , effective )

Section 728.104 Treatment Surface Impoundment Exemption

a) Wastes which are otherwise prohibited from land disposal under this Part may be treated in a surface impoundment or series of impoundments provided that:

- ~~a-~~ 1) Treatment of such wastes occurs in the impoundments;

- ~~b-~~ 2) The residues of the treatment are analyzed, as specified in

Section 728.107 or 728.132, to determine if they meet the applicable treatment standards in ~~Section 728.141~~ Subpart D or, where no treatment standards have been established for the waste, the applicable prohibition levels specifid in Subpart C. The sampling method, specified in the waste analysis plan under 35 Ill. Adm. Code 724.113 or 725.113, must be designed such that representative samples of the sludge and the supernatant are tested separately rather than mixed to form homogeneous samples. The treatment residues (including any liquid waste) that do not meet the treatment standards promulgated under Subpart Dor the applicable prohibition levels promulgated under Subpart C, or are not delisted under 35 Ill. Adm. Code 720.122 and no longer exhibit a characteristic of hazardous waste, must be removed at least annually. These residues shall not be placed in any other surface impoundment for subsequent management. If the volume of liquid flowing through the impoundment or series of impoundments annually is greater than the volume of the impoundment or impoundments, this flow-tnrough constitutes removal of the supernatant for the purpose of tnis requirement. The procedures and schedule for the sampling of impoundment contents, the analysis of test data and the annual removal of residue which does not meet the Subpart D treatment standards, or Subpart C, must be specified in the facility's waste analysis plan as required under 35 Ill. Adm. Code 724.113 or 725.113;

~~e~~ 3) The impoundment meets the design requirements of 35 Ill. Adm. Code 724.321(c) or 725.321(a) even though the unit may not be new, expanded or a replacement, and must be in compliance with applicable groundwater monitoring requirements of 35 Ill. Adm. Code 724.Subpart F or 725.Subpart F, unless:

~~1~~ A) It is exempted pursuant to 35 Ill. Adm. Code 724.321(d) or (e), or to 35 Ill. Adm. Code 725.321(c) or (d); or

~~2~~ B) Upon application by the owner or operator, the Agency has by permit provided that the requirements of this Part do not apply on the basis that the surface impoundment:

~~A~~ i) Has at least one liner, for which there is no evidence that such liner is leaking;

~~B~~ ii Is located more than one-quarter mile from an underground source of drinking water; and

~~C~~ iii) Is in compliance with generally applicable groundwater monitoring requirements for facilities with permits; or,

~~3~~ C) Upon application by the owner or operator, the Board has, pursuant to 35 Ill. Adm. Code 106, granted an adjusted standard from the requirements of this Part. The justification for such an adjusted standard shall be a demonstration that the surface impoundment is located,

designed and operated so as to assure that there will be no migration of any hazardous constituent into groundwater or surface water at any future time. And,

~~d-~~ 4) The owner or operator submits to the Agency a written certification that the requirements of Section 728.104(a)(3) have been met and submits a copy of the waste analysis plan required under Section 728.104(a)(2). The following certification is required:

> I certify under penalty of law that the requirements of 35 Ill. Adm. Code 728.104(a)(3) have been met for all surface impoundments being used to treat restricted wastes. I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

b) Evaporation of hazardous constituents as the principal means of treatment is not considered to be a treatment for purposes of an exemption under this Section.

(Source: Amended at 12 Ill. Reg. , effective )

Section 728.105 Procedures for case-by-case Extensions to an Effective Date

a) The Board incorporates by reference 40 CFR 268.5~~-~~; ~~as adopted at 51 Fed. Reg. 40636, November 7, 1986, and amended at 52 Fed. Reg. 21010, June 4, 1987-~~ (1987), as amended at 52 Fed. Reg. 25760, July 8, 1987. This Part incorporates no future editions or amendments.

b) Persons may apply to USEPA for extensions of effective dates pursuant to 40 CFR 268.5. Extensions which are granted by USEPA will be deemed extensions of dates specified in the derivative Board rule.

(Source: Amended at 12 Ill. Reg. , effective )

Section 728.106 Petitions to Allow Land Disposal of a Waste Prohibited under Subpart C

a) Any person seeking an exemption from a prohibition under Subpart C for the disposal of a restricted hazardous waste in a particular unit or units shall submit a petition to the Board demonstrating, to a reasonable degree of certainty, that there will be no migration of hazardous constituents from the disposal unit or injection zone for as long as the wastes remain hazardous. The demonstration must include the following components:

1) An identification of the specific waste and the specific unit for which the demonstration will be made;

2) A waste analysis to describe fully the chemical and physical characteristics of the subject waste;

3) A comprehensive characterization of the disposal unit site including an analysis of background air, soil and water quality;

4) Whether the facility is in interim status, or, if a RCRA permit has been issued, the term of the permit.

b) The demonstration referred to in subsection (a) must meet the following criteria:

1) All waste and environmental sampling, test and analysis data must be accurate and reproducible to the extent that state-of-the-art techniques allow;

2) All sampling, testing and estimation techniques for chemical and physical properties of the waste and all environmental parameters must conform with "Test Methods for Evaluating Solid Waste" and with "Generic Quality Assurance Project Plan for Land Disposal Restrictions Program," incorporated by reference in 35 Ill. Adm. Code 720.111.

3) Simulation models must be calibrated for the specific waste and site conditions, and verified for accuracy by comparison with actual measurements;

4) A quality assurance and quality control plan that addresses all aspects of the demonstration and conforms with "Test Methods for Evaluating Solid Waste" and with "Generic Quality Assurance Project Plan for Land Disposal Restrictions Program," incorporated by reference in 35 Ill. Adm. Code 720.111. and

5) An analysis must be performed to identify and quantify any aspects of the demonstration that contribute significantly to uncertainty. This analysis must include an evaluation of the consequences of predictable future events, including, but not limited to, earthquakes, floods, severe storm events, droughts or other natural phenomena.

c) Each petition must be submitted to the Board as provided in 35 Ill. Adm. Code 106.

d) Each petition must include the following statement signed by the petitioner or an authorized representative:

> I certify under penalty of law that I have personally examined and am familiar with the information submitted in this petition and all attached documents, and that, based on my inquiry of those individuals immediately responsible for obtaining the information. I believe that submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

e) After receiving a petition, the Board may request any additional

information that may be required to evaluate the demonstration.

f) If approved, the petition will apply to land disposal of the specific restricted waste at the individual disposal unit described in the demonstration and will not apply to any other restricted waste at that disposal unit, or to that specific restricted waste at any other disposal unit.

g) The Board will give public notice and provide an opportunity for public comment as provided in 35 Ill. Adm. Code 106. Notice of a final decision on a petition will be published in the Environmental Register.

h) The term of a petition granted under this Section will be no longer than the term of the RCRA permit if the disposal unit is operating under a RCRA permit, or up to a maximum of 10 years from the date of approval provided under subsection (g) if the unit is operating under interim status. In either case, the term of the granted petition shall expire upon the termination or denial of a RCRA permit, or upon the termination of interim status or when the volume limit of waste to be land disposed during the term of petition is reached.

i) Prior to the Board's decision, the applicant shall comply with all restrictions on land disposal under this Part once the effective date for the waste has been reached.

j) The petition granted by the Board does not relieve the petitioner of responsibilities in the management of hazardous waste under 35 Ill. Adm. Code 702, 703 and 720 through 726.

k) Liquid hazardous wastes containing PCBs at concentrations greater than or equal to 500 ppm are not eligible for an adjusted standard under this Section.

(Source: Amended at 12 Ill. Reg. , effective )

Section 728.107 Waste Analysis

a) ~~The~~ Except as specified in Section 728.132, the generator shall test the generator's waste or an extract developed using the test method described in Appendix A, or use knowledge of the waste, to determine if the waste is restricted from land disposal under this Part.

1) If a generator determines that the generator is managing a restricted waste under this Part and determines that the waste ~~exceeds~~ does not meet the applicable treatment standards or does not comply with the applicable prohibitions set forth in Section 728.132 or 728.139, with each shipment of waste the generator shall notify the treatment facility in writing of the appropriate treatment standard set forth in Subpart D and any applicable prohibitions set forth in Section 728.132 or 728.139. The notice must include the following information:

A) USEPA Hazardous Waste Number;

B) The corresponding treatment standard and all applicable standards set forth in Section 728.132 or 728.139;

C) The manifest number associated with the shipment of waste; and

D) Waste analysis data, where available.

2) If a generator determines that the generator is managing a restricted waste under this Part, and determines that the waste can be land disposed without further treatment, with each shipment of waste the generator shall submit, to the land disposal facility, a notice and a certification stating that the waste meets the applicable treatment standards.

A) The notice must include the following information:

i) USEPA Hazardous Waste Number;

ii) The corresponding treatment standard;

iii) The manifest number associated with the shipment of waste;

iv) Waste analysis data, where available.

B) The certification must be signed by an authorized representative and must state the following:

> I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 35 Ill. Adm. Code 728.Subpart D and all applicable prohibitions set forth in 35 Ill. Adm. Code 728.132, 728.139 or section 3004(d) of the Resource Conservation and Recovery Act. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

3) If a generator's waste is subject to a case-by-case extension under Section 728.105, an exemption under Section 728.106, an extension under Section 728.101(c)(3) or a nationwide variance under 40 CFR 268.Subpart C (1987), the generator shall forward a notice with the waste to the land disposal facility receiving the generator's waste, stating that the waste is exempt from the land disposal restrictions.

4) If a generator determines whether the waste is restricted based solely on the generator's knowledge of the waste, the generator

shall maintain all supporting data used to make this determination on-site in the generator's files.

b) For wastes with treatment standards expressed as concentrations in the waste extract (Section 728.141), the owner or operator of the treatment facility shall test the treatment residues or an extract of such residues developed using the test method described in Appendix A to assure that the treatment residues or extract-s- meet the applicable treatment standards. -Such-For wastes prohibited under Section 728.132 or 728.139 which are not subject to any treatment standards under Subpart D, the owner or operator of the treatment facility must test the treatment residues according to the generator testing requirements specified in Section 728.132 to assure that the treatment residues comply with the applicable prohibitions. For both circumstances described above, such testing must be performed according to the frequency specified in the facility's waste analysis plan as required by -Sections-35 Ill. Adm. Code 724.113 or 725.113. Where the treatment residues do not -meet-comply with the treatment standards or prohibitions, the treatment facility must comply with the notice requirements applicable to generators in subsection (a)(1) if the treatment residues will be further managed at a different treatment facility.

1) A notice must be sent to the land disposal facility which includes the following information:

A) USEPA Hazardous Waste Number;

B) The corresponding treatment standards and all applicable prohibitions set forth in Section 728.132 or 728.139.

C) The manifest number associated with the shipment of waste; and

D) Waste analysis data, where available.

2) The treatment facility shall submit a certification with each shipment of waste or treatment residue of a restricted waste to the land disposal facility stating that the waste or treatment residue -should be-has been treated in compliance with the treatment standards specified in Subpart D and the applicable prohibitions set forth in Section 728.132 or 728.139.

A) For wastes with treatment standards expressed as concentrations in the waste extract or in the waste (Sections 728.141 or 728.143), or for wastes prohibited under Section 728.132 or 728.139 which are not subject to any treatment standards under Subpart D, the certification must be signed by an authorized representative and must state the following:

I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support

this certification and that, based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to ~~-achieve-~~comply with the performance levels specified in 35 Ill. Adm. Code 728.Subpart D and all applicable prohibitions set forth in 35 Ill. Adm. Code 728.132 or 728.139 or section 3004(d) of the Resource Conservation and Recovery Act without dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

B) For wastes with treatment standards expressed as technologies (Section 728.142), the certification must be signed by an authorized representative and must state the following:

I certify under penalty of law that the waste has been treated in accordance with the requirements of 35 Ill. Adm. Code 728.142. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

c) The owner or operator of any land disposal facility disposing any waste subject to restrictions under this Part shall have records of the notice and certification specified in either subsection (a) or (b). The owner or operator of the land disposal facility shall test the waste or an extract of the waste developed using the test method described in Appendix A, or using any methods required of generators under Section 728.132, to assure that the wastes or treatment residues are in compliance with the applicable treatment standards set forth in Subpart D and all applicable prohibitions set forth in Section 728.132 or 728.139. Such testing shall be performed according to the frequency specified in the facility's waste analysis plan as required by 35 Ill. Adm. Code 724.113 or 725.113.

(Source: Amended at 12 Ill. Reg. , effective )

SUBPART C: PROHIBITION ON LAND DISPOSAL

Section 728.130 Waste Specific Prohibitions -- Solvent Wastes

a) The spent solvent wastes specified in 35 Ill. Adm. Code 721.131 as USEPA Hazardous Waste Nos. F001, F002, F003, F004 and F005 are prohibited from land disposal (except in an injection well) unless one or more of the following conditions apply:

1) The generator of the solvent waste is a small quantity generator of 100 to 1000 kilograms of hazardous waste per month; or

2) The solvent waste is generated from any response action taken

under CERCLA or from RCRA corrective action except where the waste is contaminated soil or debris not subject to 35 Ill. Adm. Code 702, 703 and 720 through 726, or 40 CFR 260 through 270 (1986) until November 8, 1988; or

3) The initial generator's solvent waste is a solvent-water mixture, solvent-containing sludge or solid, or solvent-contaminated soil (non-CERCLA or non-RCRA corrective action) containing less than 1 percent total F001 through F005 solvent constituents listed in Table A of Section 728.141.

4) The solvent waste is a residue from treating a waste described in subsections (a)(1), (a)(2) or (a)(3); or the solvent waste is a residue from treating a waste not described in subsections (a)(1), (a)(2) or (a)(3) provided such residue belongs to a different treatability group than the waste as initially generated and wastes belonging to such treatability group are described in subsection (a)(3).

b) Effective November 8, 1988, the F001 through F005 solvent wastes listed in subsections (a)(1), (a)(2) or (a)(3) are prohibited from land disposal. Between November 8, 1986, and November 8, 1988, wastes included in subsections (a)(1), (a)(2) or (a)(3) may be disposed of in a landfill or surface impoundment only if the facility is in compliance with the requirements specified in Section 728.105(h)(2).

c) The requirements of subsections (a) and (b) do not apply if:

1) The wastes meet the standards of Subpart D; or

2) Persons have been granted an exemption from a prohibition pursuant to a petition under Section 728.106, with respect to those wastes and units covered by the petition; or

3) Persons have been granted an extension to the effective date of a prohibition pursuant to Section 728.105, with respect to those wastes and units covered by the extension.

(Source: Amended at 12 Ill. Reg. , effective )

Section 728.132 Waste-specific Prohibitions -- California List Wastes

a) The following hazardous wastes are prohibited from land disposal (except in injection wells):

1) Liquid hazardous wastes having a pH less than or equal to two (2.0);

2) Liquid hazardous wastes containing PCBs at concentrations greater than or equal to 50 ppm;

3) Liquid hazardous wastes that are primarily water and contain halogenated organic compounds (HOCs) in total concentration

greater than or equal to 1000 mg/l and less than 10,000 mg/l HOCs.

d) The requirements of subsection (a) do not apply until November 8, 1988 where the wastes are contaminated soil or debris resulting from a response action taken under Section 104 or 106 of CERCLA, or from RCRA corrective action, as defined in Section 728.102.

e) Effective July 8, 1989, the following hazardous wastes are prohibited from land disposal (subject to any regulation that may be promulgated with respect to disposal in injection wells):

1) Liquid hazardous wastes that contain HOCs in total concentration greater than or equal to 1000 mg/l and are not prohibited under subsection (a)(3); and

2) Nonliquid hazardous wastes containing HOCs in total concentration greater than or equal to 1000 mg/kg.

f) Until July 8, 1989, the wastes described in subsections (e)(1) and (e)(2) may be disposed of in a landfill or surface impoundment only if the facility is in compliance with the requirements specified in 40 CFR 268.5(h)(2), incorporated by reference in Section 728.105.

g) The requirements of subsections (a) and (e) do not apply if:

1) Persons have been granted an adjusted standard from a prohibition pursuant to a petition under Section 728.106, with respect to those wastes and units covered by the petition (except for liquid hazardous wastes containing PCBs at concentrations greater than or equal to 500 ppm which are not eligible for exemptions); or,

2) Persons have been granted an extension to the effective date of a prohibition pursuant to Section 728.105, with respect to those wastes covered by the extension; or

3) The wastes meet the applicable standards specified in Subpart D or, where treatment standards are not specified, the wastes are in compliance with the applicable prohibitions set forth in this Section or Section 728.139.

h) The prohibitions and effective dates specified in subsections (a)(3) and (e) do not apply where the waste is subject to a Subpart C prohibition and effective date for a specified HOC (such as a hazardous waste chlorinated solvent, see e.g. Section 728.130(a)).

i) To determine whether or not a waste is a liquid under subsections (a) or (e) or under Section 728.139, the following test must be used: Method 9095 (Paint Filter Liquids Test), as described in "Test Methods for Evaluating Solid Wastes", incorporated by reference in 35 Ill. Adm. Code 720.111.

j) Except as otherwise provided in this subsection, the waste analysis

and recordkeeping requirements of Section 728.107 are applicable to wastes prohibited under this Part or Section 728.139:

1) The initial generator of a liquid hazardous waste must test the waste (not an extract or filtrate) in accordance with the procedures specified in 35 Ill. Adm. Code 721.122(a)(1), or use knowledge of the waste, to determine if the waste has a pH less than or equal to two (2.0). If the liquid waste has a pH less than or equal to two (2.0), it is restricted from land disposal and all requirements of this Part are applicable, except as otherwise specified in this Section.

2) The initial generator of either a liquid hazardous waste containing PCBs or a liquid or nonliquid hazardous waste containing HOCs must test the waste (not an extract or filtrate), or use knowledge of the waste, to determine whether the concentration levels in the waste equal or exceed the prohibition levels specified in this Section. If the concentration of PCBs or HOCs in the waste is greater than or equal to the prohibition levels specified in this Section, the waste is restricted from land disposal and all requirements of this Part are applicable, except as otherwise specified in this Section.

(Source: Added at 12 Ill. Reg. , effective )

Section 728.139 Statutory Prohibitions

No person shall cause, threaten or allow the land disposal of any waste in violation of section 3004 of the Resource Conservation and Recovery Act, incorporated by reference in 35 Ill. Adm. Code 720.111.

(Source: Added at 12 Ill. Reg. , effective )

SUBPART D: TREATMENT STANDARDS

Section 728.140 Applicability of Treatment Standards

a) A restricted waste identified in this Subpart may be land disposed without further treatment only if an extract of the waste or of the treatment ~~-residual-~~residue of the waste developed using the test method Appendix A does not exceed the value shown in Table A of Section 728.141 for any hazardous constituent listed in Table A for that waste. A restricted waste for which a treatment technology is specified under Section 728.142(a) may be land disposed after it is treated using that specified technology or an equivalent treatment method approved under the procedures set forth in Section 728.142(b).

b) A restricted waste for which a treatment technology is specified under Section 728.142(a) may be land disposed after it is treated using that specified technology or an equivalent treatment method approved by the Agency under the procedures set forth in Section 728.142(b).

(Source: Amended at 12 Ill. Reg. , effective )

Section 728.142 Treatment Standards expressed as Specified Technologies

a) The following wastes must be treated using the identified technology or technologies, or an equivalent method approved under subsection (b). ~~-No technologies are presently identified.-~~

1) Liquid hazardous wastes containing PCBs at concentrations greater than or equal to 50 ppm but less than 500 ppm must be incinerated in accordance with technical requirements at 40 CFR 761.70, incorporated by reference in 35 Ill. Adm. Code 720.111, or burned in high efficiency boilers in accordance with the technical requirements of 40 CFR 761.60. Liquid hazardous wastes containing PCBs at concentrations greater than or equal to 500 ppm must be incinerated in accordance with the technical requirements of 40 CFR 761.70. Thermal treatment in accordance with this Section must be in compliance with applicable regulations in 35 Ill. Adm. Code 724, 725 and 726.

2) Nonliquid hazardous wastes containing halogenated organic compounds (HOCs) in total concentrations greater than or equal to 1000 mg/kg and liquid HOC-containing wastes that are prohibited under Section 728.132(e)(1) must be incinerated in accordance with the requirements of 35 Ill. Adm. Code 724.Subpart O or 35 Ill. Adm. Code 725.Subpart O. These treatment standards do not apply where the waste is subject to a Subpart C treatment standard for a specific HOC (such as a hazardous waste chlorinated solvent for which a treatment standard is established under Section 728.141(a)).

b) Any person may submit an application to the Agency demonstrating that an alternative treatment method can achieve a level of performance equivalent to that ~~-achieved-~~achievable by methods specified in subsection (a). The applicant shall submit information demonstrating that the applicant's treatment method ~~-will not present an unreasonable risk to-~~is in compliance with federal and state requirements, including this Part, 35 Ill. Adm. Code 709, 724, 725, 726 and 729 and Sections 22.6 and 39(h) of the Environmental Protection Act (Ill. Rev. Stat. 1985, ch. 111 1/2, pars. 1022.6 and 1039(h)), and is protective of human health or the environment. On the basis of such information and any other available information, the Agency shall approve the use of the alternative treatment method if the Agency finds that the alternative treatment method provides a ~~-level-~~measure of performance equivalent to that achieved by methods specified in subsection (a). Any approval must be stated in writing and may contain such provisions and conditions as the Agency determines to be appropriate. The person to whom such certification is issued shall comply with all limitations contained in such determination.

(Source: Amended at 12 Ill. Reg. , effective )

SUBPART E: PROHIBITIONS ON STORAGE

Section 728.150 Prohibitions on Storage of Restricted Wastes

a) Except as provided ~~for~~ in this Section, the storage of hazardous wastes restricted from land disposal under Subpart C is prohibited, unless the following conditions are met:

1) A generator stores such wastes in tanks or containers on-site solely for the purpose of the accumulation of such quantities of hazardous waste as necessary to facilitate proper recovery, treatment or disposal and the generator complies with the requirements in 35 Ill. Adm. Code 722.134. (A generator who is in existence on the effective date of a regulation under this Part and who must store hazardous wastes for longer than 90 days due to the regulations under this Part becomes an owner or operator of a storage facility and must obtain a RCRA permit, as required by 35 Ill. Adm. Code 703. Such a facility may qualify for interim status upon compliance with the regulations governing interim status under 35 Ill. Adm. Code 703.153).

2) An owner or operator of a hazardous waste treatment, storage or disposal facility stores such wastes in tanks or containers solely for the purpose of the accumulation of such quantities of hazardous waste as necessary to facilitate proper recovery, treatment or disposal and

A) Each container is clearly marked to identify its contents and the date each period of accumulation begins;

B) Each tank is clearly marked with a description of its contents, the quantity of each hazardous waste received and the date each period of accumulation begins, or such information is recorded and maintained in the operating record at the facility. Regardless of whether the tank itself is marked, the owner and operator shall comply with the operating record requirements of 35 Ill. Adm. Code 724.173 or 725.173.

3) A transporter stores manifested shipments of such wastes at a transfer facility for 10 days or less.

b) An owner or operator of a treatment, storage or disposal facility may store such wastes for up to one year unless the Agency can demonstrate that such storage was not solely for the purpose of accumulation of such quantities of hazardous waste as are necessary to facilitate proper recovery, treatment or disposal.

c) An owner or operator of a treatment, storage or disposal facility may store such wastes beyond one year; however, the owner or operator bears the burden of proving that such storage was solely for the purpose of accumulation of such quantities of hazardous waste as are necessary to facilitate proper recovery, treatment or disposal.

d) The prohibition in subsection (a) does not apply to the wastes which are the subject of an approved petition under Section 728.106, a nationwide variance contained in Subpart C or an approved case-by-case extension under Section 728.105.

e) The prohibition in subsection (a) does not apply to hazardous wastes that meet the treatment standards specified under Sections 728.141, 728.142 and 728.143 or the adjusted treatment standards specified under Section 728.144, or, where treatment standards have not been specified, is in compliance with the applicable prohibitions specified in Section 728.132 or 728.139.

f) Liquid hazardous wastes containing PCBs at concentrations greater than or equal to 50 ppm must be stored at a facility that meets the requirements of 40 CFR 761.65(b), incorporated by reference in 35 Ill. Adm. Code 720.111, and must be removed from storage and treated or disposed as required by the Part within one year of the date when such wastes are first placed into storage. The provisions of subsection (c) do not apply to such PCB wastes prohbited under Section 728.132.

(Source: Amended at 12 Ill. Reg. , effective )

APPENDIX C: LIST OF HALOGENATED ORGANIC COMPOUNDS

VOLATILES

Bromodichloromethane
Bromomethane
Carbon tetrachloride
Chlorobenzene
2-Chloro-1,3-butadiene
Chlorodibromomethane
Chloroetnane
2-Chloroethyl vinyl ether
Chloroform
Chloromethane
3-Chloropropene
1,2-Dibromo-3-chloropropane
1,2-Dibromoethane
Dibromomethane
trans-1,4-Dichloro-2-butene
Dichlorodifluoromethane
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dicnloroethylene
trans-1,2-Dichloroethene
1,2-Dichloropropane
trans-1,3-Dichloropropene
cis-1,3-Dichloropropene
Iodomethane
Methylene chloride
1,1,1,2-Tetrachloroethane
1,1,2,2-Tetrachloroethane

Tetrachloroethene
Tribromomethane
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
Trichloromonofluoromethane
1,2,3-Trichloropropane
Vinyl chloride

## SEMIVOLATILES

Bis(2-chloroethoxy)ethane
Bis(2-chloroethyl) ether
Bis(2-chloroisopropyl) ether
p-Chloroaniline
Chlorobenzilate
p-Chloro-m-cresol
2-Chloronaphthalene
2-Chlorophenol
3-Chloropropionitrile
m-Dichlorobenzene
o-Dichlorobenzene
p-Dichlorobenzene
3,3'-Dichlorobenzidine
2,4-Dichlorophenol
2,6-Dichlorophenol
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Hexachlorophene
Hexachloropropene
4,4'-Methylenebis(2-chloroaniline)
Pentachlorobenzene
Pentachloroethane
Pentachloronitrobenzene
Pentachlorophenol
Pronamide
1,2,4,5-Tetrachlorobenzene
2,3,4,6-Tetrachlorophenol
1,2,4-Trichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
Tris(2,3-dibromopropyl)phosphate

## ORGANOCHLORINE PESTICIDES

Aldrin
alpha-BHC
beta-BHC
delta-BHC
gamma-BHC
Chlordane
DDD

DDE
DDT
Dieldrin
Endosulfan I
Endosulfane II
Endrin
Endrin aldehyde
Heptachlor
Heptachlor epoxide
Isodrin
Kepone
Methoxychlor
Toxaphene

PHENOXYACETIC ACID HERBICIDES

2,4-Dichlorophenoxyacetic acid
Silvex
2,4,5-T

PCBs

Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
PCBs not otherwise specified

DIOXINS AND FURANS

Hexachlorodibenzo-p-dioxins
Hexachlorodibenzofuran
Pentachlorodibenzo-p-dioxins
Pentachlorodibenzofuran
Tetrachlorodibenzo-p-dioxins
Tetrachlorodibenzofuran
2,3,7,8-Tetrachlorodibenzo-p-dioxin

(Source: Added at 12 Ill. Reg. , effective )