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Title 40 —Protection of Environment
Chapter I —Environmental Protection Agency
Subchapter R —Toxic Substances Control Act

Part 716 Health and Safety Data Reporting

Subpart A General Provisions

- § 716.1 Scope and compliance.
- § 716.3 Definitions.
- § 716.5 Persons who must report.
- § 716.10 Studies to be reported.
- § 716.20 Studies not subject to the reporting requirements.
- § 716.21 Chemical specific reporting requirements.
- § 716.25 Adequate file search.
- § 716.30 Submission of copies of studies.
- § 716.35 Submission of lists of studies.
- § 716.40 EPA requests for submission of further information.
- § 716.45 How to report on substances and mixtures.
- § 716.50 Reporting physical and chemical properties.
- § 716.55 Confidentiality claims.
- § 716.60 Reporting schedule.
- § 716.65 Reporting period.

Subpart B Specific Chemical Listings

- § 716.105 Additions of substances and mixtures to which this subpart applies.
- § 716.120 Substances and listed mixtures to which this subpart applies.

PART 716—HEALTH AND SAFETY DATA REPORTING

Authority: 15 U.S.C. 2607(d).

Source: 51 FR 32726, Sept. 15, 1986, unless otherwise noted.

Subpart A—General Provisions

§ 716.1 Scope and compliance.

- (a) This subpart sets forth requirements for the submission of lists and copies of health and safety studies on chemical substances and mixtures selected for priority consideration for testing rules under section 4(a) of the Toxic Substances Control Act (TSCA) and on other chemical substances and mixtures for which EPA requires health and safety information in fulfilling the purposes of TSCA.

- (b) Section 15(3) of TSCA makes it unlawful for any person to fail or refuse to submit information required under this subpart. Section 16 provides that a violation of section 15 renders a person liable to the United States for a civil penalty and possible criminal prosecution. Under section 17, the district courts of the United States have jurisdiction to restrain any violation of section 15.

§ 716.3 Definitions.

The definitions in section 3 of TSCA apply to this subpart. In addition, the following definitions are provided for the purposes of this subpart:

Byproduct means a chemical substance produced without a separate commercial intent during the manufacture, processing, use, or disposal of another chemical substance(s) or mixture(s).

Central Data Exchange or CDX means EPA's centralized electronic submission receiving system.

Chemical Information Submission System or CISS means EPA's electronic, web-based tool for the completion and submission of data, reports, and other information, or its successors.

Co-product means a chemical substance produced for a commercial purpose during the manufacture, processing, use, or disposal of another chemical substance(s) or mixture(s).

Copy of study means the written presentation of the purpose and methodology of a study and its results.

EPA means the United States Environmental Protection Agency.

Health and safety study or study means any study of any effect of a chemical substance or mixture on health or the environment or on both, including underlying data and epidemiological studies, studies of occupational exposure to a chemical substance or mixture, toxicological, clinical, and ecological or other studies of a chemical substance or mixture, and any test performed under TSCA.

- (1) It is intended that the term *health and safety study* be interpreted broadly. Not only is information which arises as a result of a formal, disciplined study included, but other information relating to the effects of a chemical substance or mixture on health or the environment is also included. Any data that bear on the effects of a chemical substance on health or the environment would be included. Chemical identity is part of, or underlying data to, a health and safety study.
- (2) Examples are:
 - (i) Long- and short-term tests of mutagenicity, carcinogenicity, or teratogenicity; data on behavioral disorders; dermatotoxicity; pharmacological effects; mammalian absorption, distribution, metabolism, and excretion; cumulative, additive, and synergistic effects; and acute, subchronic, and chronic effects.
 - (ii) Tests for ecological or other environmental effects on invertebrates, fish, or other animals, and plants, including: Acute toxicity tests, chronic toxicity tests, critical life-stage tests, behavioral tests, algal growth tests, seed germination tests, plant growth or damage tests, microbial function tests, bioconcentration or bioaccumulation tests, and model ecosystem (microcosm) studies.
 - (iii) Assessments of human and environmental exposure, including workplace exposure, and impacts of a particular chemical substance or mixture on the environment, including surveys, tests, and studies of: Biological, photochemical, and chemical degradation; structure/activity

relationships; air, water, and soil transport; biomagnification and bioconcentration; and chemical and physical properties, e.g., boiling point, vapor pressure, evaporation rates from soil and water, octanol/water partition coefficient, and water solubility.

- (iv) Monitoring data, when they have been aggregated and analyzed to measure the exposure of humans or the environment to a chemical substance or mixture.

Import means to import for commercial purposes.

Import for commercial purposes means to import with the purpose of obtaining an immediate or eventual commercial advantage for the importer, and includes the importation of any amount of a chemical substance or mixture. If a chemical substance or mixture containing impurities is imported for commercial purposes, then those impurities are also imported for commercial purposes.

Importer means any person who imports a chemical substance, including a chemical substance as a part of a mixture or article, into the customs territory of the United States and includes the person primarily liable for the payment of any duties on the merchandise or an authorized agent acting on his behalf (as defined in 19 CFR 1.11). Importer also includes, as appropriate:

- (1) The consignee.
- (2) The importer of record.
- (3) The actual owner, if an actual owner's declaration and superseding bond has been filed in accordance with 19 CFR 141.20.
- (4) The transferee, if the right to draw merchandise in a bonded warehouse has been transferred in accordance with subpart C of 19 CFR part 144. For the purpose of this definition, the customs territory of the United States consists of the 50 States, Puerto Rico, and the District of Columbia.

Impurity means a chemical substance which is unintentionally present with another chemical substance.

Listed mixture means any mixture listed in § 716.120.

Manufacture means to manufacture for commercial purposes.

Manufacture for commercial purposes means:

- (1) To produce, with the purpose of obtaining an immediate or eventual commercial advantage for the manufacturer, and includes among other things such “manufacture” of any amount of a chemical substance or mixture:
 - (i) For commercial distribution, including for test marketing.
 - (ii) For use by the manufacturer, including use for product research and development, or as an intermediate.
- (2) Manufacture for commercial purposes also applies to substances that are produced coincidentally during the manufacture, processing, use, or disposal of another substance or mixture, including byproducts and impurities. Such byproducts and impurities may, or may not, in themselves have commercial value. They are nonetheless produced for the purpose of obtaining a commercial advantage since they are part of the manufacture of a chemical product for a commercial purpose.

Manufacturer means a person who produces or manufactures a chemical substance. A person who extracts a component chemical substance from a previously existing chemical substance or a complex combination of substances is a manufacturer of that component chemical substance.

Person includes any individual, firm, company, corporation, joint-venture, partnership, sole proprietorship, association, or any other business entity, any State or political subdivision thereof, any municipality, any interstate body, and any department, agency, or instrumentality of the Federal government.

Process means to process for commercial purposes.

Process for commercial purposes means the preparation of a chemical substance or mixture, after its manufacture, for distribution in commerce with the purpose of obtaining an immediate or eventual commercial advantage for the processor. Processing of any amount of a chemical substance or mixture is included. If a chemical substance or mixture containing impurities is processed for commercial purposes, then those impurities are also processed for commercial purposes.

Propose to manufacture, import, or process means that a person has made a management decision to commit financial resources toward the manufacture, importation, or processing of a substance or mixture.

Substance means *chemical substance* as defined at section 3(2)(A) of TSCA, 15 U.S.C. 2602(2)(A).

TSCA means the Toxic Substances Control Act (15 U.S.C. 2601 *et seq.*).

[51 FR 32726, Sept. 15, 1986, as amended at 78 FR 72826, Dec. 4, 2013]

§ 716.5 Persons who must report.

- (a) Except as provided in paragraphs (b) and (c) of this section, only those persons described in this section are required to report under this part. Persons who must report include manufacturers (including importers) who fall within the North American Industry Classification System (NAICS) (in effect as of January 1, 1997) Subsector 325 (chemical manufacturing and allied products) or Industry Group 32411 (petroleum refineries), who:
 - (1) In the 10 years preceding the effective date on which a substance or mixture is added to § 716.120, either had proposed to manufacture (including import), or had manufactured (including imported) the listed substance or listed mixture (including as a known byproduct), are required to report during the reporting period specified in § 716.65.
 - (2) As of the effective date on which a substance or mixture is added to § 716.120, and who propose to manufacture (including import), or who are manufacturing (including importing) the listed substance or listed mixture (including as a known byproduct), are required to report during the reporting period specified in § 716.65.
 - (3) After the effective date on which a substance or mixture is added to § 716.120, and who propose to manufacture (including import) the listed substance or listed mixture (including as a known byproduct), are required to report during the reporting period specified in § 716.65.
- (b) A rule promulgated under the authority of 15 U.S.C. 2607(d) may require that any person who does not fall within NAICS (in effect as of January 1, 1997) Subsector 325 or Industry Group 32411, and who had proposed to manufacture (including import) or process, had manufactured (including imported) or processed, proposes to manufacture (including import) or process, or is manufacturing (including importing) or processing a substance or mixture listed in § 716.120 must report under this part.
- (c) Processors and persons who propose to process a substance or mixture otherwise subject to the reporting requirements imposed by this part are not subject to this part unless EPA specifically states otherwise in a particular notice or rule promulgated under the authority of 15 U.S.C. 2607(d).

[63 FR 15773, Apr. 1, 1998]

§ 716.10 Studies to be reported.

- (a) In general, health and safety studies, as defined in § 716.3, on any substance or listed mixture listed in § 716.120, that are unpublished are reportable, i.e., must be submitted or listed. However, this requirement has limitations according to the nature of the material studied, so that:
 - (1) All studies of substances and listed mixtures are reportable. However, in the case of physical and chemical properties, only those studies listed in § 716.50 must be submitted.
 - (2) Studies of mixtures known to contain substances or listed mixtures listed in § 716.120 are reportable except for studies of physical and chemical properties and the studies exempted at § 716.20(a)(6)
 - (i) through (vi) .
 - (3) Studies of substances or listed mixtures that a person who is reporting has manufactured, imported, or processed or proposed to manufacture, import, or process only as impurities are not generally reportable under § 716.20(a)(9).
 - (4) Underlying data, such as medical or health records, individual files, lab notebooks, and daily monitoring records supporting studies do not have to be submitted initially. EPA may request underlying data later under § 716.40.
- (b) [Reserved]

§ 716.20 Studies not subject to the reporting requirements.

- (a) Excluding paragraph (a)(3) of this section, the following types of studies are exempt from the copy and list submission requirements of §§ 716.30 and 716.35.
 - (1) Studies which have been published in the scientific literature.
 - (2) Studies previously submitted to the EPA Office of Pollution Prevention and Toxics. These studies are limited to section 8(e) submissions, studies submitted during section 4 proceedings, studies submitted with premanufacture notices or significant new use notices, and studies submitted “for your information” (FYI submissions) in support of EPA’s TSCA Existing Chemicals Program. Studies which have been initiated pursuant to a TSCA section 4(a) test rule, for which the person has submitted a letter of intent to conduct testing in accordance with the provisions of § 790.25 of part 790 of this chapter, are exempt from the list submission requirements of § 716.35.
 - (3) Except for those studies described in paragraph (a)(2) of this section, studies previously submitted to any Federal agency with no claims of confidentiality are exempt only from the copy submission requirements of § 716.30, and must be listed in accordance with the provisions of § 716.35.
 - (4) Studies conducted or initiated by or for another person who is subject to, and who will report the studies under §§ 716.30 and 716.35.
 - (5) Studies of chemical substances which are not on the TSCA Chemical Substances Inventory. This exemption applies only to those substances within categories listed under § 716.120(c).
 - (6) The following types of studies when the subject of the study is a mixture known to contain a substance or listed mixture listed under § 716.120.

- (i) Acute oral toxicity studies.
- (ii) Acute dermal toxicity studies.
- (iii) Acute inhalation toxicity studies.
- (iv) Primary eye irritation studies.
- (v) Primary dermal irritation studies.
- (vi) Dermal sensitization studies.
- (vii) Physical and chemical properties.

If the substance or listed mixture is an impurity, no reporting is required (see paragraph (a)(9) of this section).

- (7) Analyzed aggregations of monitoring data based on monitoring data acquired more than 5 years preceding the date the substance or listed mixture was added to the list under § 716.120.
 - (8) Analyzed aggregations of monitoring data on mixtures known to contain one or more substances or listed mixtures listed in § 716.120, when the monitoring data are not analyzed to determine the exposure or concentration levels of the substances or listed mixture listed under § 716.120.
 - (9) Studies on a substance or listed mixture listed under § 716.120 that the person who is reporting has manufactured, imported, or processed or proposed to manufacture, import, or process only as an impurity. When reporting of such studies is to be required, that reporting will be separately proposed in the FEDERAL REGISTER.
 - (10) Studies of chemical substances or listed mixtures previously submitted by trade associations in accordance with the provisions of § 716.30.
- (b) The following types of studies on substances or listed mixtures listed under § 716.120 are exempt from the copy and list submission requirements of §§ 716.30 and 716.35.
- (1) For the listed ureaformaldehyde resins (CAS Nos. 9011-05-6 and 68611-64-3), studies on agronomic plant growth or damage which demonstrate only that the resins stimulate plant growth or cause plant damage when applied as a fertilizer.
 - (2) For the specified chemicals in § 716.120(d) under the category "Siloxanes," acute oral, dermal, and inhalation toxicity studies and primary eye and dermal irritation studies.
 - (3) For the listed chemicals under § 716.120(d) in the category "OSHA Chemicals in Need of Dermal Absorption Testing," studies on ecological effects.
 - (4) For the chemicals listed at § 716.120 with a special exemption referencing this paragraph, studies on mixtures containing the listed substance at levels below 1 percent of the mixture, except when a purpose of the study includes the investigation of the effects of the listed substance at levels below 1 percent.
 - (5) Rulemaking proceedings that add substances and mixtures to § 716.120 will specify the types of health and/or environmental effects studies that must be reported and will specify the chemical grade/purity requirements that must be met or exceeded in individual studies. Chemical grade/purity requirements will be specified on a per chemical basis or for a category of chemicals for which reporting is required.

[51 FR 32726, Sept. 15, 1986, as amended at 58 FR 47649, Sept. 10, 1993; 58 FR 68315, Dec. 27, 1993; 60 FR 34884, July 5, 1995; 63 FR 15773, Apr. 1, 1998]

§ 716.21 Chemical specific reporting requirements.

- (a) Health and safety studies reportable under part 716 for the following chemical substances, mixtures, or categories of chemical substances, as listed in § 716.120, must be submitted or listed only as specified in this section:
- (1) For 3H-1,2,4-triazole-3-thione, 5-amino-1,2-dihydro- and imidazo[4,5-d]imidazole-2,5-(1H,3H)-dione, tetrahydro-, all unpublished environmental effects studies and health effects studies on pharmacokinetics, genotoxicity, subchronic toxicity, immunotoxicity, carcinogenicity, reproductive effects, and developmental toxicity where the purity of 3H-1,2,4-triazole-3-thione, 5-amino-1,2-dihydro- or imidazo[4,5-d]imidazole-2,5-(1H,3H)-dione, tetrahydro- is greater than or equal to 90% of the test substance by weight must be submitted.
 - (2) For benzenamine, 3-chloro-2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl)-, all unpublished environmental effects studies including bioconcentration, environmental fate studies on biodegradation, and health effects studies on pharmacokinetics, subchronic toxicity, mutagenicity, reproductive effects, and developmental toxicity, and carcinogenicity where the purity of benzenamine, 3-chloro-2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl)- is greater than or equal to 90% of the test substance by weight must be submitted.
 - (3) For stannane, dimethylbis[(1-oxoneodecyl)oxy]-, all unpublished environmental effects studies including bioconcentration, environmental fate studies on hydrolysis and biodegradation and health effects studies on pharmacokinetics, subchronic toxicity, mutagenicity, neurotoxicity, reproductive effects, and developmental toxicity, and carcinogenicity where the purity of stannane, dimethylbis[(1-oxoneodecyl)oxy]- is greater than or equal to 90% of the test substance by weight must be submitted.
 - (4) For benzene, 1,3,5-tribromo-2-(2-propenyloxy)-, all unpublished environmental effects studies including bioconcentration, environmental fate studies on biodegradation and health effects studies on pharmacokinetics, subchronic toxicity, neurotoxicity, reproductive effects, and developmental toxicity, and carcinogenicity where the purity of benzene, 1,3,5-tribromo-2-(2-propenyloxy)- is greater than or equal to 90% of the test substance by weight must be submitted.
 - (5) For 1-triazene, 1,3-diphenyl-, all unpublished health effects studies on pharmacokinetics, genotoxicity, subchronic and chronic toxicity, reproductive effects, and developmental toxicity where the purity of 1-triazene, 1,3-diphenyl- is greater than or equal to 90% of the test substance by weight must be submitted.
 - (6) For the 9 chemicals in the indium compound category, all unpublished health effects studies on pharmacokinetics, genotoxicity, subchronic and chronic toxicity, reproductive effects, and developmental toxicity where the purity of the indium compound is greater than or equal to 90% of the test substance by weight must be submitted.
 - (7) For all voluntary HPV Challenge Program orphan (unsponsored) chemicals:
 - (i) All unpublished environmental fate studies, meeting the criteria set forth in paragraph (a)(7)(iv) of this section, on water solubility; adsorption/desorption on particulate surfaces, e.g., soil; vapor pressure; octanol/water partition coefficient; density/relative density (specific gravity); particle size distribution for insoluble solids; dissociation constant; degradation by

photochemical mechanisms—aquatic and atmospheric; degradation by chemical mechanisms—hydrolytic, reductive, and oxidative; degradation by biological mechanisms—aerobic and anaerobic. Studies of physical and chemical properties meeting the criteria set forth in paragraph (a)(7)(iv) of this section must be reported if performed for the purpose of determining the environmental or biological fate of a substance, and only if they investigated one or more of the properties listed in this paragraph. In addition, all unpublished studies meeting the criteria set forth in paragraph (a)(7)(iv) of this section on melting point and boiling point must be submitted.

- (ii) All unpublished health effects studies meeting the criteria set forth in paragraph (a)(7)(iv) of this section including pharmacokinetics, genotoxicity, acute toxicity, subacute toxicity, subchronic toxicity, chronic toxicity, reproductive toxicity, developmental toxicity, immunotoxicity, neurotoxicity, and oncogenicity/carcinogenicity.
- (iii) All unpublished environmental effects studies meeting the criteria set forth in paragraph (a)(7)(iv) of this section including acute and chronic toxicity studies of aquatic and terrestrial vertebrates and invertebrates and aquatic plants.
- (iv) Only studies where the voluntary HPV Challenge Program orphan (unsponsored) chemical is $\geq 90\%$ of the test substance by weight should be submitted. In addition, only studies that were conducted using TSCA, Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), Organization for Economic Cooperation and Development (OECD) or other internationally accepted test guidelines or voluntary consensus standards should be submitted. Studies performed where the voluntary HPV Challenge Program orphan (unsponsored) chemical is $< 90\%$ of the test substance by weight are not requested at this time.

(8)

- (i) Reporting requirements apply only to manufacturers (including importers) of consumer products intended for use by children who also manufacture (including import) lead or lead compounds. For the category “lead and lead compounds,” all unpublished health and safety studies that:
 - (A) Relate to the lead content of consumer products that are “intended for use by children” as that term is defined at 40 CFR 710.43 (excluding children's metal jewelry), or
 - (B) Assess children's exposure to lead from such products (including studies of bioavailability).
- (ii) With regard to purity, studies showing any measurable lead content in such products must be submitted.

- (9) For 1,3-Butadiene (106-99-0), Butyl benzyl phthalate (BBP)—1,2-Benzene- dicarboxylic acid, 1- butyl 2(phenylmethyl) ester (85-68-7), Dibutyl phthalate (DBP) (1,2-Benzene- dicarboxylic acid, 1,2- dibutyl ester) (84-74-2), o-Dichlorobenzene (95-50-1), p-Dichlorobenzene (106-46-7), trans-1,2-Dichloroethylene (156-60-5), 1,2-Dichloropropane (78-87-5), Dicyclohexyl phthalate (84-61-7), Di-ethylhexyl phthalate (DEHP)—(1,2-Benzene- dicarboxylic acid, 1,2- bis(2-ethylhexyl) ester) (117-81-7), Di-isobutyl phthalate (DIBP)—(1,2-Benzene- dicarboxylic acid, 1,2- bis-(2methylpropyl) ester) (84-69-5), Formaldehyde (50-00-0), 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta [g]-2-benzopyran (HHCB) (1222-05-5), Phthalic anhydride (85-44-9), 4,4'-(1-Methylethylidene)bis[2, 6-dibromophenol] (TBBPA) (79-94-7), and 1,1,2-Trichloroethane (79-00-5), all unpublished studies on health effects (including toxicity

studies (in vivo and in vitro) on carcinogenicity, reproductive and developmental effects, genotoxicity, neurotoxicity, immunotoxicity, endocrine effects, and other systemic toxicity); toxicokinetics (absorption, distribution, metabolism, or elimination), including modelling studies, in humans or animals; environmental effects; environmental fate; physical-chemical properties if performed as described in 40 CFR 716.50; and occupational (both users and non-users), general population, consumer, bystander, and environmental exposure must be submitted. Studies showing any measurable content of the High-Priority Substance in the tested substance (single substances or mixture) must be reported. The composition and purity of test substances must be reported if included as part of the study. Studies previously submitted to EPA pursuant to a requirement under TSCA or of the submitter's own accord and studies conducted or to be conducted pursuant to a TSCA section 4 action are exempt from the submission of lists of health and safety studies required under 40 CFR 716.35 and the submission of studies required under this rule.

- (10) For purposes of this paragraph, the term *organohalogen flame retardant* includes any substances listed in paragraph(d) of this section under the category "Organohalogen flame retardants". For any organohalogen flame retardant, all unpublished studies on health effects (including toxicity studies (in vivo and in vitro) on carcinogenicity, reproductive and developmental effects, genotoxicity, neurotoxicity, immunotoxicity, endocrine effects, and other systemic toxicity); toxicokinetics (absorption, distribution, metabolism, or elimination), including modelling studies, in humans or animals; environmental fate; physical-chemical properties if performed as described in 40 CFR 716.50; and occupational (both users and non-users), general population, consumer, bystander, and environmental exposure must be submitted. Studies showing any measurable content of the organohalogen flame retardant in the tested substance (single substances or mixture) must be reported. The composition and purity of test substances must be reported if included as part of the study. Studies previously submitted to EPA pursuant to a requirement under TSCA or of the submitter's own accord and studies conducted or to be conducted pursuant to a TSCA section 4 action are exempt from the submission of lists of health and safety studies requirements under 40 CFR 716.35 and the submission of studies requirements under this rule.
- (11) For 4,4-Methylene bis(2-chloraniline) (101-14-4); 4-tert-octylphenol(4-(1,1,3,3-Tetramethylbutyl)-phenol) (140-66-9); Acetaldehyde (75-07-7); Acrylonitrile (107-13-1); Benzenamine (62-53-3); Benzene (71-43-2); Bisphenol A (80-5-7); Ethylbenzene (100-41-4); Naphthalene (91-20-3); Vinyl Chloride (75-01-4); Styrene (100-42-5); Tribromomethane (Bromoform) (75-25-2); Triglycidyl isocyanurate (2451-62-9); Hydrogen fluoride (7664-39-3); N-(1,3-Dimethylbutyl)-N'-phenyl-p-phenylenediamine (6PPD) (793-24-8); and 2-anilino-5-[(4-methylpentan-2-yl)amino]cyclohexa-2,5-diene-1,4-dione (6PPD-quinone) (2754428-18-5), all unpublished studies on health effects (including toxicity studies (in vivo and in vitro) on carcinogenicity, reproductive and developmental effects, genotoxicity, neurotoxicity, immunotoxicity, endocrine effects, and other systemic toxicity); toxicokinetics (absorption, distribution, metabolism, or elimination), including modelling studies, in humans or animals; environmental effects; environmental fate; physical-chemical properties if performed as described in 40 CFR 716.50; and occupational (both users and non-users), general population, consumer, bystander, and environmental exposure must be submitted. Studies showing any measurable content of the substance in the tested substance (single substances or mixture) must be reported. The composition and purity of test substances must be reported if included as part of the study. Studies previously submitted to EPA pursuant to a requirement under TSCA or of the submitter's own accord and studies conducted or to be conducted pursuant to a TSCA section 4 action are exempt from the submission of lists of health and safety studies required under 40 CFR 716.35 and the submission of studies required under this rule.

(b) [Reserved]

[69 FR 24522, May 4, 2004, as amended at 71 FR 47135, Aug. 16, 2006; 73 FR 5115, Jan. 29, 2008; 86 FR 34152, June 29, 2021; 89 FR 100761, Dec. 13, 2024]

§ 716.25 Adequate file search.

The scope of a person's responsibility to search records is limited to records in the location(s) where the required information is typically kept, and to records kept by the person or the person's individual employee(s) who is/are responsible for keeping such records or advising the person on the health and environmental effects of chemicals. Persons are not required to search for reportable information dated before January 1, 1977, to comply with this subpart unless specifically required to do so in a rule.

[63 FR 15773, Apr. 1, 1998]

§ 716.30 Submission of copies of studies.

(a)

- (1) Except as provided in §§ 716.5, 716.20, and 716.50, persons must send to EPA copies of any health and safety studies in their possession for the substances or mixtures listed in § 716.120. Persons are responsible for submitting copies on only the substances or listed mixtures which they: Have manufactured, imported, or processed or proposed to manufacture, import, or process (including as known byproducts) within the 10 years preceding the effective date for reporting on the substances or listed mixtures; manufacture, import, or process on the effective date for reporting on the substances or listed mixtures; and propose to manufacture, import, or process following the effective date for reporting on the substances or listed mixtures. Persons who list studies as ongoing or initiated under § 716.35(a) (1) and (2) must submit them when they are completed.

(2) [Reserved]

- (b) Submissions under paragraph (a) of this section must be identified either on the face of the study or otherwise by the applicable chemical name and CAS number (if any) listed in § 716.120(a) (1) and (2), and must be accompanied by a cover letter containing the name, job title, address and telephone number of the submitting official, and the name and address of the manufacturing or processing establishment on whose behalf the submission is made. In the cover letter, submitters must identify any impurity or additive known to have been present in the substance or listed mixtures as studied unless its presence is specifically noted in the study itself. The cover letter accompanying a study submitted by a trade association must also state that the submission is to satisfy reporting requirements under this part.
- (c) Persons must use the CISS tool to complete and submit all data, reports, and other information required by 40 CFR part 716, via CDX. Submission requires registration with CDX, and must be made only as set forth in this section.
- (d) To access the CISS tool go to <https://cdx.epa.gov/ssl/CSPP/PrimaryAuthorizedOfficial/Home.aspx> and follow the appropriate links and for further instructions to go <http://www.epa.gov/oppt/chemtest/ereporting/index.html>.

[51 FR 32726, Sept. 15, 1986, as amended at 52 FR 20084, May 29, 1987; 52 FR 44828, Nov. 20, 1987; 53 FR 12523, Apr. 15, 1988; 60 FR 34463, July 3, 1995; 63 FR 15773, Apr. 1, 1998; 71 FR 47135, Aug. 16, 2006; 78 FR 72826, Dec. 4, 2013]

§ 716.35 Submission of lists of studies.

- (a) Except as provided in §§ 716.5, 716.20, and 716.50, persons subject to this rule must send lists of studies to EPA for each of the listed substances or listed mixtures (including as a known byproduct) in § 716.120 which they are manufacturing, importing, or processing, or which they propose to manufacture (including import) or process.
- (1) **Ongoing studies.** As of the date a person becomes subject to this part, a list of ongoing health and safety studies being conducted by or initiated for them, noting for each entry: The beginning date of the study, the purpose of the study, the types of data to be collected, the anticipated date of completion, and the name and address of the laboratory conducting the study.
- (2) **Initiated studies.** After the date a person becomes subject to this part, a list of studies initiated by or for them, noting for each entry: The beginning date of the study, the purpose of the study, the types of data to be collected, the anticipated date of completion, and the name and address of the laboratory conducting the study.
- (3) **Studies which are known but without possession of copies.** As of the date a person becomes subject to this part, a list of unpublished health and safety studies known to them of which they do not have copies. The name and address of any person known to them to possess a copy of the unpublished study must accompany each entry on the list. For purposes of this section only, an unpublished study will be considered to be "known to" a person, if the study can be discovered by a file search in accordance with § 716.25.
- (4) **Studies previously sent to Federal agencies without confidentiality claims.** A list of unpublished studies which have been sent to a Federal Agency with no claims of confidentiality. The submission must for each study: Identify the study by title, state the name and address to whom the study was sent, and the month and year in which the study was submitted. Any study identified will be treated as if it were submitted under section 8(d) and will be available for public disclosure under section 14(b) of TSCA. Persons subject to this requirement may submit either a list of unpublished health and safety studies previously submitted to any Federal agency without claims of confidentiality in accordance with § 716.35(a)(4), or copies of each such study in accordance with § 716.30.
- (b) Submission under paragraph (a) of this section must be identified either on the face of the study or otherwise by the applicable chemical name and CAS number (if any) listed in § 716.120(a) (1) and (2), and must be accompanied by a cover letter containing the name, job title, address and telephone numbers of the submitting official, and the name and address of the manufacturing or processing establishment on whose behalf the submission is made.
- (c) Persons must use the CISS tool to complete and submit all data, reports, and other information required by 40 CFR part 716, via CDX. Submission requires registration with CDX, and must be made only as set forth in this section.
- (d) To access the CISS tool go to <https://cdx.epa.gov/ssl/CSPP/PrimaryAuthorizedOfficial/Home.aspx> and follow the appropriate links and for further instructions to go <http://www.epa.gov/oppt/chemtest/ereporting/index.html>.

[51 FR 32726, Sept. 15, 1986, as amended at 52 FR 20084, May 29, 1987; 52 FR 44828, Nov. 20, 1987; 53 FR 12523, Apr. 15, 1988; 53 FR 46746, Nov. 18, 1988; 60 FR 34463, July 3, 1995; 63 FR 15774, Apr. 1, 1998; 71 FR 47135, Aug. 16, 2006; 78 FR 72826, Dec. 4, 2013]

§ 716.40 EPA requests for submission of further information.

EPA may, by letter, request a person to submit or make available for review the following information after the initial reporting under §§ 716.30 and 716.35. If the requested submissions are not made, EPA may subpoena them under section 11 of TSCA, 15 U.S.C. 2610.

- (a) Submission of underlying data of the kind described in § 716.10(a)(4) by persons who submit copies of studies under § 716.30 or list studies under § 716.35(a)(1) or § 716.35(a)(2).
- (b) Submission of preliminary reports of ongoing studies by persons who list the studies under § 716.35(a)(1) or § 716.35(a)(2).
- (c) Submission of copies of studies by persons listed under § 716.35(a)(3) as possessing them.

§ 716.45 How to report on substances and mixtures.

Section 716.120 lists substances and mixtures, in order by Chemical Abstract Service Registry Number and by alphabetical order. Studies of listed substances and listed mixtures shall be reported as follows:

- (a) When a substance is individually listed under § 716.120(a), studies of the substance and studies of mixtures known to contain the substance must be reported as studies of that substance.
- (b) When two or more substances are listed as a mixture under § 716.120(b), studies of the listed mixture and studies of any mixture known to contain the listed mixture must be reported as studies of the listed mixture.
- (c) Studies of the following preparations of a substance must be reported as studies of the substance itself, not as studies of mixtures known to contain the substance.
 - (1) The substance in aqueous solution.
 - (2) The substance containing a small amount of an additive, such as a stabilizer, emulsifier, or other chemical added for purposes of maintaining the integrity or physical form of the substance.
 - (3) The substance of the grade/purity specified in each rule promulgated under 15 U.S.C. 2607(d).

[51 FR 32726, Sept. 15, 1986, as amended at 63 FR 15774, Apr. 1, 1998]

§ 716.50 Reporting physical and chemical properties.

Studies of physical and chemical properties must be reported under this subpart if performed for the purpose of determining the environmental or biological fate of a substance, and only if they investigated one or more of the following properties:

- (a) Water solubility.
- (b) Adsorption/desorption on particulate surfaces, e.g., soil.
- (c) Vapor pressure.
- (d) Octanol/water partition coefficient.
- (e) Density/relative density (specific gravity).
- (f) Particle size distribution for insoluble solids.

- (g) Dissociation constant.
- (h) Degradation by photochemical mechanisms—aquatic and atmospheric.
- (i) Degradation by chemical mechanisms—hydrolytic, reductive, and oxidative.
- (j) Degradation by biological mechanisms—aerobic and anaerobic.

§ 716.55 Confidentiality claims.

Claims of confidentiality must be made in accordance with the procedures described in 40 CFR part 703.

[88 FR 37172, June 7, 2023]

§ 716.60 Reporting schedule.

- (a) **General requirements.** Except as provided in § 716.5 and paragraphs (b) and (c) of this section, submissions under §§ 716.30 and 716.35 must be submitted using the electronic method specified in §§ 716.30(c) and 716.35(c), on or before 60 days after the effective date of the listing of a substance or mixture in § 716.120 or within 60 days of proposing to manufacture (including import) or process a listed substance or listed mixture (including as a known byproduct) if first done after the effective date of the substance or mixture being listed in § 716.120.
- (b)
 - (1) **Submission of lists of initiated studies.** Persons subject to the listing requirements of § 716.35(a)(2) must inform EPA of the initiated study within 30 days of its initiation.
 - (2) **Submission of copies of completed studies.** Persons must submit studies listed as ongoing or initiated under § 716.35(a)(1) and (2) within 30 days of completing the study, using the method specified in §§ 716.30(c) and 716.35(c).
- (c) **Requests for extensions of time.** Respondents who cannot meet a deadline under this section may apply for a reasonable extension of time. Extension requests must be submitted on or before 40 days after the effective date of the listing of a substance or mixture in § 716.120, using the electronic method specified in §§ 716.30(c) and 716.35(c). The Director of EPA's Office of Pollution Prevention and Toxics will grant or deny extension requests.
- (d) **Submission methods.** Persons must use the CISS tool to complete and submit all data, reports, and other information required by 40 CFR part 716, via CDX. Submission requires registration with CDX, and must be made only as set forth in this section.
- (e) To access the CISS tool go to <https://cdx.epa.gov/ssl/CSPP/PrimaryAuthorizedOfficial/Home.aspx> and follow the appropriate links and for further instructions to go <http://www.epa.gov/oppt/chemtest/ereporting/index.html>.

[51 FR 32726, Sept. 15, 1986, as amended at 60 FR 34464, July 3, 1995; 63 FR 15774, Apr. 1, 1998; 71 FR 47135, Aug. 16, 2006; 78 FR 72826, Dec. 4, 2013]

§ 716.65 Reporting period.

Unless otherwise required in a rule promulgated under 15 U.S.C. 2607(d) relating to a listed chemical substance or listed mixture [hereinafter “rule”], the reporting period for a listed chemical substance or listed mixture will terminate 60 days after the effective date on which the listed chemical substance or listed mixture is added to 40 CFR 716.120. EPA may require reporting for a listed chemical substance or listed mixture beyond the 60 day period in a rule promulgated under 15 U.S.C. 2607(d), however EPA will not extend any reporting period later than 2 years after the effective date on which a listed chemical substance or listed mixture is added to 40 CFR 716.120. After the applicable reporting period terminates, any person subject to the rule under 40 CFR 716.5 (a)(2) or (a)(3) and who has submitted to EPA lists of ongoing or initiated studies under 40 CFR 716.35 (a)(1) or (a)(2) must submit a copy of any such study within 30 days after its completion, regardless of the study's completion date.

[63 FR 15774, Apr. 1, 1998]

Subpart B—Specific Chemical Listings

§ 716.105 Additions of substances and mixtures to which this subpart applies.

The requirements of this subpart will be extended periodically to cover additional substances and mixtures. Two procedures will be used to add substances and mixtures.

- (a) Except as provided in paragraph (b) of this section, substances and mixtures will be added to § 716.120 after publication in the FEDERAL REGISTER of a notice of proposed amendment to this subpart. There will be at least a 30-day public comment period on the notice. After consideration of the comments, EPA will amend § 716.120 by final rule to add the substances and listed mixtures.
- (b) Except as provided in paragraph (c) of this section, chemical substances, mixtures, and categories of chemical substances that have been added to the TSCA section 4(e) Priority List by the Interagency Testing Committee, established under section 4 of TSCA, will be added to § 716.120 but only to the extent that the total number of designated and recommended substances, mixtures and categories of chemical substances has not exceeded 50 in any 1 year. The addition of such chemical substances, mixtures, and categories of chemical substances to § 716.120 will be effective 30 days after publication of a notice to that effect in the FEDERAL REGISTER.
- (c) Prior to the effective date of an amendment under paragraph (b) of this section, the Assistant Administrator for Chemical Safety and Pollution Prevention may for good cause withdraw a chemical substance, mixture, or category of chemical substances from § 716.120. Any information submitted showing why a chemical substance, mixture, or category of chemical substances should be withdrawn from the amendment must be received by EPA within 14 days after the date of publication of the notice under paragraph (b) of this section. If a chemical substance, mixture, or category of chemical substances is withdrawn, a FEDERAL REGISTER notice announcing this decision will be published no later than the effective date of the amendment under paragraph (b) of this section.
- (d) Persons who wish to submit information that shows why a substance should be withdrawn must submit their comments by using the CISS tool to complete and submit all data, reports, and other information required by 40 CFR part 716, via CDX. Submission requires registration with CDX, and must be made only as set forth in this section.
- (e) To access the CISS tool go to <https://cdx.epa.gov/ssl/CSPP/PrimaryAuthorizedOfficial/Home.aspx> and follow the appropriate links and for further instructions to go <http://www.epa.gov/oppt/chemtest/ereporting/index.html>.

[51 FR 32726, Sept. 15, 1986, as amended at 60 FR 34464, July 3, 1995; 71 FR 47135, Aug. 16, 2006; 77 FR 46292, Aug. 3, 2012; 78 FR 72827, Dec. 4, 2013]

§ 716.120 Substances and listed mixtures to which this subpart applies.

Substances listed in this section appear in order by Chemical Abstract Service Registry Number. Chemical mixtures and categories are listed separately and by alphabetical order. Chemical substances listed within a category are provided only as examples of the category, and are not included on the list of substances. When a chemical substance in the substance or category list had been listed previously by a trivial (or common) name, it appears first, followed by the Chemical Abstract Service (CAS) name appearing in the TSCA Chemical Substance Inventory.

- (a) **List of substances.** The following chemical substances are subject to all the provisions of part 716. Manufacturers, importers, and processors of a listed substance are subject to the reporting requirements of subpart A for that substance.

CAS No.	Substance	Special exemptions	E
62-74-8	Acetic acid, fluoro-, sodium salt		
67-63-0	2-Propanol		
67-66-3	Methane, trichloro-		
67-72-1	Ethane, hexachloro-		
68-12-2	Dimethyl formamide-Formamide, N,N-dimethyl-		
71-55-6	1,1,1-Trichloroethane—Ethane, 1,1,1-trichloro-		
74-83-9	Methane, bromo-		
74-87-3	Chloromethane—Methane, chloro-		
74-95-3	Methane, dibromo-		
74-97-5	Methane, bromochloro-		
75-00-3	Ethane, chloro-		
75-02-5	Vinyl fluoride—Ethene, fluoro-		
75-04-7	Ethanamine		
75-05-8	Acetonitrile		

CAS No.	Substance	Special exemptions	E
75-09-2	Methylene chloride—Methane, dichloro-		
75-12-7	Formamide		
75-21-8	Oxirane		
75-25-2	Methane, tribromo-		
75-27-4	Methane, bromodichloro-		
75-29-6	Propane, 2-chloro-		
75-34-3	Ethane, 1,1-dichloro-		
75-37-6	1,1-Difluoroethane-Ethane, 1,1-difluoro-		
75-38-7	Vinylidene fluoride—Ethene, 1,1-difluoro-		
75-43-4	Dichloromonofluoromethane-Methane, dichlorofluoro-		
75-45-6	Chlorodifluoromethane—Methane, chlorodifluoro-		
75-52-5	Nitromethane-Methane, nitro-		
75-56-9	Oxirane, methyl-		
75-68-3	1-Chloro-1,1-difluoroethane-Ethane, 1-chloro-1,1-difluoro		
75-86-5	Propanenitrile, 2-hydroxy-2-methyl-		
75-88-7	Ethane, 2-chloro- 1,1,1-trifluoro		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane-Ethane, 1,1,2-trichloro-1,2,2-trifluoro-1		
77-47-4	Hexachlorocyclopentadiene—1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-		
77-58-7	Dibutyltin dilaurate—Stannane, dibutylbis[(1-oxododecyl)oxy]-		
78-59-1	Isophorone—2-Cyclohexen-1-one, 3,5,5-trimethyl-		

CAS No.	Substance	Special exemptions	E
78-83-1	1-Propanol, 2-methyl-		
78-87-5	1,2-Dichloropropane—Propane, 1,2-dichloro-		
78-88-6	1-Propene, 2,3-dichloro-		
78-93-3	Methyl ethyl ketone—2-Butanone		
78-97-7	Propanenitrile, 2-hydroxy-		
78-99-9	Propane, 1,1-dichloro-		
79-00-5	Ethane, 1,1,2-trichloro-		
79-06-1	Acrylamide—2-Propenamide		
79-24-3	Nitroethane-Ethane, nitro-		
79-94-7	Tetrabromobisphenol A—Phenol, 4,4'-(methylethylidene)bis[2,6-dibromo-		
80-05-7	Bisphenol A—Phenol, 4,4'-(1-methylethylidene)bis-		
80-15-9	Hydroperoxide, 1-methyl-1-phenylethyl		
80-62-6	Methyl methacrylate—2-Propenoic acid, 2-methyl-, methyl ester		
84-65-1	Anthraquinone—9,10-Anthracenedione		
85-22-3	Pentabromoethylbenzene—Benzene, pentabromoethyl-		
85-68-7	Benzyl butyl phthalate—1,2-Benzenedicarboxylic acid, butyl phenylmethyl ester		
86-74-8	9H-Carbazole		
87-68-3	Hexachloro-1,3-butadiene—1,3-Butadiene, 1,1,2,3,4,4-hexachloro-		
88-04-0	p-Chloro-m-xlenol-Phenol, 4-chloro-3,5-dimethyl-		
90-30-2	N-Phenyl-1-naphthylamine		
90-42-6	[1,1'-Bicyclohexyl]-2-one		

CAS No.	Substance	Special exemptions	E
91-08-7	Benzene, 1,3-diisocyanato-2-methyl-		
91-20-3	Naphthalene		
91-58-7	Naphthalene, 2-chloro-		
92-52-4	1,1'-Biphenyl		
92-69-3	[1,1'-Biphenyl]-4-ol		
92-84-2	10 <i>H</i> -Phenothiazine		
92-87-5	[1,1'-Biphenyl]-4,4'-diamine		
95-14-7	1,2,3-Benzotriazole-1 <i>H</i> -Benzotriazole		
95-47-6	<i>o</i> -Xylene—Benzene, 1,2-dimethyl-		
95-48-7	<i>o</i> -Cresol—Phenol, 2-methyl-		
95-49-8	2/Chlorotoluene—Benzene, 1-chloro-2-methyl-		
95-53-4	Benzenamine, 2-methyl-		
95-63-6	1,2,4-Trimethylbenzene—Benzene, 1,2,4-trimethyl-		
96-18-4	Propane, 1,2,3-trichloro-		
96-29-7	2-Butanone, oxime		
96-37-7	Methylcyclopentane—Cyclopentane, methyl-		
97-18-7	Phenol, 2,2'-thiobis[4,6-dichloro-		
97-23-4	Phenol, 2,2'-methylenebis[4-chloro-		
97-88-1	Butyl methacrylate-2-Propenoic acid, 2-methyl-,butyl ester		
98-01-1	2-Furancarboxaldehyde		

CAS No.	Substance	Special exemptions	E
98-06-6	Benzene, (1,1-dimethylethyl)-		
98-09-9	Benzenesulfonyl chloride		
98-51-1	<i>p</i> -tert-Butyltoluene—Benzene, 1-(1,1-dimethylethyl)-4-methyl-		
98-56-6	4-Chlorobenzotrifluoride—Benzene, 1-chloro-4-(trifluoromethyl)-		
98-73-7	<i>p</i> -tert-Butylbenzoic acid—Benzoic acid, 4-(1,1-dimethylethyl)-		
98-82-8	Cumene—Benzene, (1-methylethyl)-		
98-83-9	Benzene, (1-methylethenyl)-		
98-95-3	Nitrobenzene—Benzene, nitro-		
100-02-7	<i>p</i> -Nitrophenol—Phenol, 4-nitro-		
100-40-3	4-Vinylcyclohexene		
100-41-4	Benzene, ethyl-		
100-48-1	4-Pyridinecarbonitrile		
100-54-9	3-Pyridinecarbonitrile		
100-70-9	2-Pyridinecarbonitrile		
101-68-8	Benzene, 1,1'-methylenebis[4-isocyanato-		
101-77-9	Benzenamine, 4,4'-methylenebis-		
101-84-8	Diphenyl oxide—Benzene, 1,1'-oxybis-		
102-71-6	Triethanolamine—Ethanol, 2,2',2"-nitrilotris-		
104-49-4	Benzene, 1,4-diisocyanato-		
104-51-8	Benzene, butyl-		
104-76-7	1-Hexanol, 2-ethyl-		

CAS No.	Substance	Special exemptions	E
105-60-2	2 <i>H</i> -Azepin-2-one, hexahydro-		
106-42-3	<i>p</i> -Xylene—Benzene, 1,4-dimethyl-		
106-43-4	Benzene, 1-chloro-4-methyl-		
106-44-5	<i>p</i> -Cresol—Phenol, 4-methyl-		
106-49-0	Benzenamine, 4-methyl-		
106-50-3	<i>p</i> -Phenylenediamine—1,4-Benzenediamine		
106-51-4	Quinone—2,5-Cyclohexadiene-1,4-dione		
106-88-7	Oxirane, ethyl-		
106-89-8	Oxirane, (chloromethyl)-		
107-06-2	Ethane, 1,2-dichloro-		
107-10-8	1-Propanamine		
107-19-7	2-Propyn-1-ol		
107-98-2	1-Methoxy-2-propanol—2-Propanol, 1-methoxy-		
108-05-4	Vinyl acetate—Acetic acid ethenyl ester		
108-10-1	Methyl isobutyl ketone—2-Pentanone, 4-methyl-		
108-31-6	Maleic anhydride—2,5-Furandione		
108-38-3	<i>m</i> -Xylene—Benzene, 1,3-dimethyl-		
108-39-4	<i>m</i> -Cresol—Phenol, 3-methyl-		
108-60-1	Propane, 2,2'-oxybis[1-chloro-		
108-67-8	1,3,5-Trimethylbenzene—Benzene, 1,3,5-trimethyl-		

CAS No.	Substance	Special exemptions	E
108-86-1	Benzene, bromo-		
108-88-3	Toluene—Benzene, methyl-		
108-89-4	4-Methylpyridine—Pyridine, 4-methyl-		
108-94-1	Cyclohexanone		
108-95-2	Phenol		
108-95-5	Thiophenol		
108-98-5	Benzenethiol		
108-99-6	3-Methylpyridine—Pyridine, 3-methyl-		
109-06-8	2-Methylpyridine—Pyridine, 2-methyl-		
109-77-3	Propanedinitrile		
109-87-5	Methane, Dimethoxy-		
109-89-7	Ethanamine, <i>N</i> -ethyl-		
110-75-8	Ethene, (2-chloroethoxy)-		
110-82-7	Cyclohexane		
110-86-1	Pyridine		
111-21-7	Ethylene bisoxyethylene diacetate—Ethanol, 2,2'-[1,2-ethanediylbis(oxy)]bis-, diacetate		
111-40-0	Diethylenetriamine—1,2-Ethanediamine, <i>N</i> -(2-aminoethyl)-		
111-42-2	Diethanolamine—Ethanol, 2,2'-iminobis-		
111-69-3	Hexanedinitrile		
111-76-2	2-Butoxyethanol—Ethanol, 2-butoxy-		
111-77-3	Diethylene glycol monomethyl ether-Ethanol, 2-(2-methoxyethoxy)-		

CAS No.	Substance	Special exemptions	E
111-90-0	Diethylene glycol monoethyl ether-Ethanol, 2-(2-ethoxyethoxy)-		
111-91-1	Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro-		
111-92-2	1-Butanamine, N-butyl-		
112-35-6	Triethyleneglycol monomethyl ether—Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-		
112-50-5	Triethyleneglycol monoethyl ether—Ethanol, 2-[2-(2-ethoxyethoxy)ethoxy]-		
112-90-3	Oleylamine—9-Octadecen-1-amine, (Z)-		
115-28-6	Chlorendic acid—Bicyclo[2.2.1] hept-5-ene-2,3-dicarboxylic acid, 1,4,5,6,7,7-hexachloro-		
115-96-8	Ethanol, 2-chloro-, phosphate (3:1)		
118-79-6	2,4,6-Tribromophenol		
120-20-7	Anthracene		
120-32-1	2-Benzyl-4-chlorophenol-Phenol, 4-chloro-2-chlorophenol(phenyl methyl)-		
121-44-8	Ethanamine, N,N-diethyl-		
121-47-1	Benzenesulfonic acid, 3-amino-		
122-09-8	Benzeneethanamine, alpha,alpha-dimethyl-		
122-66-7	Hydrazine, 1,2-diphenyl-		
122-99-6	2-Phenoxyethanol—Ethanol, 2-phenoxy-		
123-31-9	Hydroquinone—1,4-Benzenediol		
123-61-5	Benzene, 1,3-diisocyanato-		
123-72-8	Butanal		
124-16-3	1-Butoxyethoxy-2-propanol-2-Propanol, 1-(2-butoxyethoxy)-		

CAS No.	Substance	Special exemptions	E
124-17-4	2-(2-Butoxyethoxy)ethyl acetate—Ethanol, 2-(2-butoxyethoxy)-, acetate	§ 716.21(a)(5)	
124-48-1	Methane, dibromochloro-		
126-73-8	Phosphoric acid, tributyl ester		
126-99-8	Chloroprene—1,3-Butadiene, 2-chloro-		
127-18-4	Ethene, tetrachloro-		
128-39-2	Phenol, 2,6-bis(1,1-dimethylethyl)-		
128-86-9	2,6-Anthracenedisulfonic acid, 4,8-diamino-9,10-dihydro-1,5-dihydroxy-9,10-dioxo-		
129-00-0	Pyrene		
131-17-9	Diallyl phthalate-1,2-Benzenedicarboxylic acid, di-2-propenyl ester		
135-98-8	Benzene, (1-methylpropyl)-		
136-35-6	1-Triazene, 1,3-diphenyl-		
137-20-2	Sodium <i>N</i> -methyl- <i>N</i> -oleoyltaurine—Ethanesulfonic acid, 2-[methyl (1-oxo-9-octadecenyl)amino]-, sodium salt, (Z)-		
137-26-8	Thioperoxydicarbonic diamide, tetramethyl-		
139-25-3	Benzene, 1,1 ¹ -methylenebis[4-isocyanato-3-methyl-		
140-08-9	Tris(2-chloroethyl)phosphite—Ethanol, 2-chloro-, phosphite (3:1)		
140-66-9	4-(1,1,3,3-Tetramethylbutyl) phenol—Phenol, 4-(1,1,3,3-tetramethylbutyl)-		
140-88-5	Ethyl acrylate—2-Propenoic acid, ethyl ester		
141-79-7	Mesityl oxide—3-Penten-2-one, 4-methyl-		
142-28-9	Propane, 1,3,-dichloro-		
142-84-7	1-Propanamine, <i>N</i> -propyl-		
143-22-6	Triethyleneglycol monobutyl ether—Ethanol, 2-[-2-(2-butoxyethoxy)ethoxy]-		

CAS No.	Substance	Special exemptions	E
143-33-9	Sodium cyanide	§ 716.21(a)(1)	
149-30-4	Mercaptobenzothiazole—2(3 <i>H</i> -Benzothiazolethione		
149-57-5	2-Ethylhexanoic acid—Hexanoic acid, 2-ethyl-		
306-83-2	Ethane, 2,2-dichloro-1,1,1-trifluoro		
328-84-7	3,4-Dichlorobenzotrifluoride—Benzene, 1,2-dichloro-4-(trifluoromethyl)-		
354-33-6	Ethane, pentafluoro		
357-57-3	Strychnidin-10-one, 2,3-dimethoxy-		
428-59-1	Oxirane, trifluoro(trifluoromethyl)-		
496-46-8	Imidazo[4,5- <i>d</i>]imidazole-2,5(1 <i>H</i> ,3 <i>H</i>)-dione, tetrahydro-		
472-41-3	Phenol, 4-(3,4-dihydro-2,2,4-trimethyl-2 <i>H</i> -1-benzopyran-4-yl)-		
506-96-7	Acetyl bromide		
526-73-8	1,2,3-Trimethylbenzene—Benzene, 1,2,3-trimethyl-		
530-50-7	Hydrazine, 1,1-diphenyl-		
534-07-6	2-Propanone, 1,3-dichloro-		
540-54-5	Propane, 1-chloro-		
540-84-1	Pentane, 2,2,4-trimethyl-		
542-75-6	1-Propene, 1,3-dichloro-		
556-67-2	Octamethylcyclotetrasiloxane—Cyclotetrasiloxane, octamethyl-		
563-54-2	1-Propene, 1,2-dichloro-		
563-58-6	1-Propene, 1,1-dichloro-		

CAS No.	Substance	Special exemptions	E
580-51-8	[1,1'-Biphenyl]-3-ol	§ 716.20(b)(3) applies	
584-84-9	Benzene, 2,4-diisocyanato-1-methyl-		
591-08-2	Acetamide, N-(aminothioxomethyl)-		
594-20-7	Propane, 2,2-dichloro-		
598-21-0	Acetyl bromide, bromo-		
598-31-2	2-Propanone, 1-bromo-		
616-23-9	1-Propanol, 2,3-dichloro-		
620-14-4	<i>m</i> -Ethyltoluene—Benzene, 1-ethyl-3-methyl-		
622-96-8	<i>p</i> -Ethyltoluene—Benzene, 1-ethyl-4-methyl-		
630-20-6	Ethane, 1,1,1,2-tetrachloro-		
632-79-1	Tetrabromophthalic anhydride		
637-92-3	Ethyl-tert-butyl ether		
646-06-0	1,3-Dioxolane		
677-21-4	Trifluoromethylethene—1-Propene, 3,3,3-trifluoro-		
685-91-6	Acetamide, <i>N,N</i> -diethyl-		
692-42-2	Arsine, diethyl-		
696-28-6	Arsonous dichloride, phenyl-		
757-58-4	Tetraphosphoric acid, hexaethyl ester		
811-97-2	Ethane, 1,1,2-tetrafluoro-		
812-03-3	Propane, 1,1,1,2-tetrachloro-		

CAS No.	Substance	Special exemptions	E
822-06-0	Hexane, 1,6-diisocyanato-	§ 716.20(b)(3) applies	
828-00-2	1,3-Dioxan-4-ol, 2,6-dimethyl-, acetate		
930-22-3	Oxirane, ethenyl-		
939-97-9	<i>p</i> -tert-Butylbenzaldehyde—Benzaldehyde, 4-(1,1-dimethylethyl)-		
994-05-8	Tert-amyl methyl ether		
1000-82-4	Methylolurea—Urea, (hydroxymethyl)-		
1070-78-6	Propane, 1,1,1,3-tetrachloro-		
1163-19-5	Decabromodiphenyl ether		
1185-81-5	Dibutyltin bis(lauryl mercaptide)—Stannane, dibutylbis(dodecylthio)		
1208-52-2	Benzenamine, 2-[(4-aminophenyl)methyl]-		
1300-71-6	Phenol, dimethyl-		
1309-64-4	Antimony trioxide		
1321-38-6	Benzene, diisocyanatomethyl-(unspecified isomer)		
1321-64-8	Naphthalene, pentachloro-		
1321-65-9	Naphthalene, trichloro-		
1331-47-1	[1,1'-Biphenyl]-4,4'-diamino, dichloro-		
1333-41-1	Methyl pyridine—Pyridine, methyl-		
1335-87-1	Naphthalene, hexachloro-		
1335-88-2	Naphthalene, tetrachloro-		
1345-04-6	Antimony trisulfide		

CAS No.	Substance	Special exemptions	E
1464-53-5	2,2'-Bioxirane		
1634-04-4	Propane, 2-methoxy-2-methyl-		
1649-08-7	Ethane, 1,2-dichloro-1,1-difluoro		
1717-00-6	Ethane, 1,1-dichloro-1-fluoro-		
1825-30-5	Naphthalene, 1,5-dichloro-		
1825-31-6	Naphthalene, 1,4-dichloro-		
1888-71-7	1-Propene, 1,1,2,3,3,3-hexachloro-		
2050-69-3	Naphthalene, 1,2-dichloro-		
2050-72-8	Naphthalene, 1,6-dichloro-		
2050-73-9	Naphthalene, 1,7-dichloro-		
2050-74-0	Naphthalene, 1,8-dichloro-		
2050-75-1	Naphthalene, 2,3-dichloro-		
2065-70-5	Naphthalene, 2,6-dichloro-		
2198-75-6	Naphthalene, 1,3-dichloro-		
2198-77-8	Naphthalene, 2,7-dichloro-		
2234-13-1	Naphthalene, octachloro-		
2536-05-2	Benzene, 1,1'-methylenebis[2-isocyanato-		
2556-36-7	Cyclohexane, 1,4-diisocyanato		
2763-96-4	3(2H)-Isoxazolone, 5-(aminomethyl)-		
2778-42-9	Benzene, 1,3-bis(1-isocyanato-1-methylethyl-		
2861-02-1	2,6-Anthracenedisulfonic acid, 4,8-diamino-9,10-dihydro-1,5-dihydroxy-9,10-dioxo-,		

CAS No.	Substance	Special exemptions	E
2873-89-0	disodium salt Ethane, 2-chloro-1,1,1,2-tetrafluoro-	§ 716.21(a)(4)	
3083-25-8	Oxirane, (2,2,2-trichloroethyl)-		
3173-72-6	Naphthalene, 1,5-diisocyanato-		
3194-55-6	Hexabromocyclododecane		
3278-89-5	Benzene, 1,3,5-tribromo-2-(2-propenyloxy)-		
3288-58-2	Phosphorodithioic acid, O,O-diethyl-S-methyl ester		
3296-90-0	1,3-Propanediol, 2,2-bis(bromomethyl)-		
3319-31-1	Tris(2-ethylhexyl) trimellitate—1,2,4-Benzenetricarboxylic acid, tris(2-ethylhexyl)ester		
3322-93-8	1,2-Dibromo-4-(1,2-dibromoethyl) cyclohexane—Cyclohexane, 1,2-dibromo-4-(1,2-dibromoethyl)-		
3389-71-7	1,2,3,4,7,7-Hexachloronorborene—Bicyclo[2.2.1]hepta-2,5-diene, 1,2,3,4,7,7-hexachloro-		
3618-72-2	Acetamide, N-[5-[bis[2-(acetyloxy)ethyl]amino]-2-[(2-bromo-4,6-dinitrophenyl)azo]-4-methoxyphenyl]-		
3618-73-3	Acetamide, N-[5-[bis[2-(acetyloxy)ethyl]amino]-2-[(2-chloro-4,6-dinitrophenyl)azo]-4-methoxyphenyl]-		
3956-55-6	Acetamide, N-[5-[bis[2-(acetyloxy)ethyl]- amino]-2-[(2-bromo-4,6-dinitrophenyl)azo]-4-ethoxyphenyl		
4098-71-9	Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-		
4170-30-3	2-Butenal		
5124-30-1	Cyclohexane, 1,1'-methylenebis[4-isocyanato-		
5131-66-8	1-Butoxy-2-propanol-2-Propanol, 1-butoxy-		
5344-82-1	Thiourea, (2-chlorophenyl)-		
5873-54-1	Benzene, 1-isocyanato-2-[4-isocyanatophenyl)methyl]-		
6145-73-9	1-Propanol, 2-chloro-, phosphate (3:1)		

CAS No.	Substance	Special exemptions	E
6247-34-3	2-Anthracenesulfonic acid, 4-[[4-(acetylamino)phenyl]amino]-1-amino-9,10-dihydro-9,10-dioxo-	§ 716.20(b)(1) applies	
6422-86-2	Bis(2-ethylhexyl) terephthalate—1,4-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester		
6424-85-7	2-Anthracenesulfonic acid, 4-[[4- (acetylamino)phenyl]amino]-1-amino-9,10-dihydro-9,10-dioxo-, monosodium salt		
7320-37-8	Oxirane, tetradecyl-		
7440-28-0	Thallium		
7440-36-0	Antimony		
7440-48-4	Cobalt		
7723-14-0	White phosphorus		
9011-05-6	Urea, polymer with formaldehyde		
9016-87-9	Isocyanic acid, polymethylenepolyphenylene ester		
10347-54-3	Cyclohexane, 1,4-bis(isocyanatomethyl)-		
10436-39-2	1-Propene, 1,1,2,3-tetrachloro-		
12001-85-3	Naphthenic acids, zinc salts		
12185-10-3	White phosphorus		
12217-79-7	9,10-Anthracenedione, 1,5-diamino-chloro-4,8-dihydroxy-		
13414-54-5	Methallyl 2-nitrophenyl ether—Benzene, 1-[(2-methyl-2-propenyl)oxy]-2-nitro-		
13414-55-6	7-Nitro-2,2-dimethyl-2,3-dihydro-benzofuran—Benzofuran, 2,3-dihydro-2,2-dimethyl-7-nitro-		
13674-84-5	2-Propanol, 1-chloro-, phosphate (3:1)		
13674-87-8	2-Propanol, 1,3-dichloro-, phosphate (3:1)		
15646-96-5	Hexane, 1,6-diisocyanato-2,4,4-trimethyl-		

CAS No.	Substance	Special exemptions	E
16691-43-3	3H-1,2,4-Triazole-3-thione, 5-amino-1,2-dihydro-	§ 716.21(a)(1)	
16938-22-0	Hexane, 1,6-diisocyanato-2,2,4-trimethyl-		
17418-58-5	9,10-Anthracenedione, 1-amino-4-hydroxy-2-phenoxy-		
18495-30-2	Propane, 1,1,2,3-tetrachloro-		
18633-25-5	Oxirane, tridecyl-		
19660-16-3	2-Propenoic acid, 2,3-dibromopropyl ester		
21429-43-6	Acetamide, N-[5-[bis[2-(acetyloxy)ethyl]amino]-2-[(2-chloro-4,6-dinitrophenyl)azo]-4-methoxyphenyl]-		
25168-06-3	Isopropyl phenol—Phenol, (1-methylethyl)-		
25168-21-2	Dibutyltin bis (isooctyl maleate)—2-Butenoic acid, 4,4'-[(dibutylstannylene)bis(oxy)]bis-[4-oxo-, diisooctyl ester, (Z,Z)-		
25498-49-1	Tripropylene glycol monomethyl ether-Propanol, [2-(2-methoxy methylethoxy)methylethoxy]-		
25550-14-5	Benzene, ethylmethyl- (mixed isomers)		
25550-98-5	Phosphorous acid, diisodecyl phenyl ester		
25551-13-7	Trimethylbenzene—Benzene, trimethyl- (mixed isomers)		
25640-78-2	Isopropyl biphenyl—1,1'-Biphenyl, (1-methylethyl)-		
25852-70-4	Monobutyltin tris (isooctyl) mercapto-acetate—Acetic acid, 2,2',2"-[(butylstannylidyne)tris(thio)]tris-, triisooctyl ester		
26447-40-5	Benzene, 1,1'-methylenebis[isocyanato-		
26471-62-5	Benzene, 1,3-diisocyanatomethyl-		
26530-20-1	3(2H)-Isothiazolone, 2-octyl-		
26952-23-8	1-Propene, dichloro-		
29091-20-1	Benzenamine, 3-chloro-2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl)-	§ 716.21(a)(2)	
29385-43-1	Tolyl triazole-1H-Benzotriazole, methyl-		

CAS No.	Substance	Special exemptions	E
32052-51-0	Isocyanic acid, trimethylcyclohexyl ester		
32534-81-9	Pentabromodiphenyl ether		
32536-52-0	Octabromodiphenyl ether		
32588-76-4	Ethylene Bis-(tetrabromophthalimide)		
33125-86-9	Phosphoric acid, 1,2-ethanediyl tetrakis (2-chloroethyl) ester		
34590-94-8	Dipropylene glycol monomethyl ether—Propanol, (2-methoxymethylethoxy)-		
37853-59-1	1,2-Bis(tribromophenoxy) ethane		
38661-72-2	Cyclohexane, 1,3-bis(isocyanatomethyl)-		
41291-34-3	Ethylene(5,6-dibromonorbornane-2,3-dicarboximide)		
52907-07-0	Ethylene bis(5,6-dibromonorbornane-2,3-dicarboximide		
57137-10-7	Tribrominated polystyrene		
61262-53-1	Ethylene bis(pentabromophenoxide)		
61788-33-8	Terphenyl, chlorinated		
61789-36-4	Calcium naphthenate—Naphthenic acids, calcium salts		
61789-51-3	Cobalt naphthenate—Naphthenic acids, cobalt salts		
61790-14-5	Lead naphthenate—Naphthenic acids, lead salts		
64742-95-6	Solvent naphtha (petroleum), light arom		
68081-84-5	Oxirane, mono[(C ₁₀₋₁₆ -alkyloxy) methyl] derivatives		
68122-86-1	Imidazolium compounds, 4,5-dihydro-1-methyl-2-nortallow alkyl-1-(2-tallow amidoethyl), methyl sulfates		
68153-35-5	Ethanaminium, 2-amino- <i>N</i> -(2-aminoethyl- <i>N</i> -(2-hydroxyethyl)- <i>N</i> -methyl-, <i>N,N'</i> -ditallow acyl derivatives, methyl sulfates (salts)		

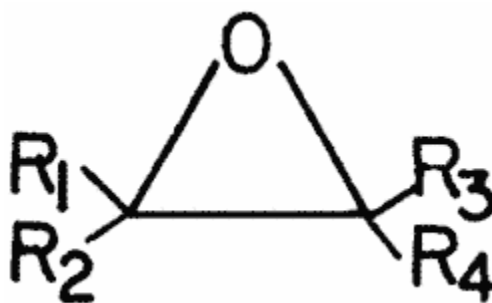
CAS No.	Substance	Special exemptions	E
68298-46-4	7-Amino-2,2-dimethyl-2,3-dihydrobenzofuran—7-Benzofuranamine,2,3-dihydro-2,2-dimethyl-	§ 716.20(b)(1) applies § 716.21(a)(3)	
68389-88-8	Poly(oxy-1,2-ethanediyl), α-[2-[bis(2-aminoethyl)methylammonio]ethyl]-ω-hydroxy-, <i>N,N'</i> -dicoco acyl derivatives, methyl sulfates (salts)		
68389-89-9	Poly(oxy-1,2-ethanediyl), α-[2-[bis(2-aminoethyl)methylammonio]ethyl]-ω-hydroxy-, <i>N,N'</i> -bis(hydrogenated tallow acyl) derivatives, methyl sulfates (salts)		
68410-69-5	Poly(oxy-1,2-ethanediyl), alpha-[2-[bis(2-aminoethyl) methylammonio]ethyl]-w-hydroxy-, <i>N,N'</i> -ditallow acyl derivatives, methyl sulfates (salts)		
68413-04-7	Poly[oxy(methyl-1,2-ethanediyl)], α-[2-[bis(2-aminoethyl)methylammonio] methylethyl]-ω-hydroxy-, <i>N,N'</i> -ditallow acyl derivatives, methyl sulfates (salts)		
68554-06-3	Poly(oxy-1,2-ethanediyl), α-[3-[bis(2-aminoethyl)methylammonio]-2-hydroxy-propyl]-ω-hydroxy-, <i>N</i> -coco acyl derivatives, methyl sulfates (salts)		
68611-64-3	Urea, reaction products with formaldehyde		
68928-76-7	Stannane, dimethylbis[(1-oxoneodecyl)oxy]-		
69009-90-1	Diisopropyl biphenyl—1,1'-Biphenyl, bis(1-methylethyl)-		
70914-09-9	Poly(oxy-1,2-ethanediyl), α-[2-[bis(2-aminoethyl)methylammonio]ethyl]-ω-hydroxy-, <i>N,N'</i> -di[C ₁₄₋₁₈ acyl] derivatives, methyl sulfates (salts)		
75790-84-0	Benzene, 2-isocyanato-4-[(4-isocyanato-phenyl)methyl]-1-methyl-		
75790-87-3	Benzene, 1-isocyanato-2-[(4-isocyanato-phenyl)thio]-		

(b) [Reserved]

(c) **By category.** The following categories are listed in alphabetical order. Chemical substances listed within a category are provided only as examples of the category. All chemical substances within a category are subject to all the provisions of part 716 for the time period from the effective date of the category until the sunset date. Manufacturers, importers, and processors of any chemical substance within a category are

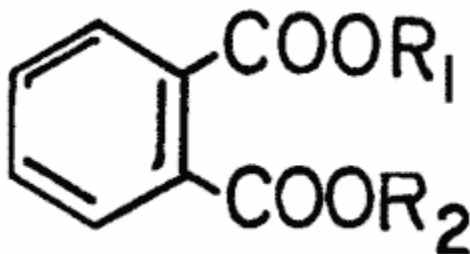
subject to the reporting requirements of subpart A for that category, except when the sunset date for the particular substance predates the sunset date for the category, or when the exemption of § 716.20(b) of this part applies.

Category	CAS No. (examples for category)	Special exemptions	Effective date	Sunset date
Alkyl epoxides—including all noncyclic aliphatic hydrocarbons with one or more epoxy functional groups.			10/4/82	12/29/88



Category	CAS No. (examples for category)	Special exemptions	Effective date	Sunset date
$R_1 = R_2 = R_3 = R_4 = \text{H or alkyl}$. Groups R_1 - R_4 may contain one or more epoxide functions.				
Oxirane, decyl-	2855-19-8		10/04/82	12/29/88
Oxirane, 2, 2 - dimethyl -	558-30-5		10/04/82	12/29/88
Oxirane, 2, 3 - dimethyl -	3266-23-7		10/04/82	12/29/88
Oxirane, dodecyl	3234-28-4		10/04/82	12/29/88
Oxirane, heptadecyl -	67860-04-2		10/04/82	12/29/88
Oxirane, octyl-	2404-44-6		10/04/82, 12/29/88	
Oxirane, pentadecyl -	22092-38-2		10/04/82	12/29/88

Category	CAS No. (examples for category)	Special exemptions	Effective date	Sunset date
Alkyl phthalates — all alkyl esters of 1, 2-benzenedicarboxylic acid (<i>ortho</i> -phthalic acid).			10/04/82	10/04/92

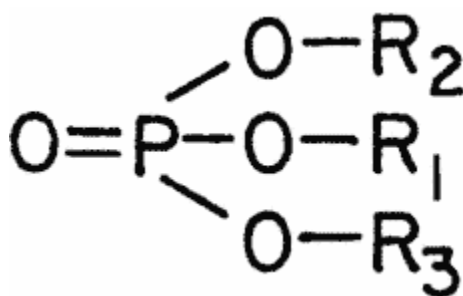


Category	CAS No. (examples for category)	Special exemptions	Effective date	Sunset date
R ₁ = R ₂ = alkyl.				
1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester	117-81-7		10/04/82	10/04/92
1,2-Benzenedicarboxylic acid, bis(1-methylheptyl) ester	131-15-7		10/04/82	10/04/92
1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester	84-69-5		10/04/82	10/04/92
1,2-Benzenedicarboxylic acid, 2-butoxy-2-oxyethyl butyl ester	85-70-1		10/04/82	01/13/86
1,2-Benzenedicarboxylic acid, butyl cyclohexyl ester	84-64-0		10/04/82	10/04/92
1,2-Benzenedicarboxylic acid, butyl 2-ethylhexyl ester	85-69-8		10/04/82	10/04/92
1,2-Benzenedicarboxylic acid, butyl octyl ester	84-78-6		10/04/82	10/04/92
1,2-Benzenedicarboxylic acid, decyl hexyl ester	25724-58-7		10/04/82	10/04/92
1,2-Benzenedicarboxylic acid, decyl octyl ester	119-07-3		10/04/82	10/04/92
1,2-Benzenedicarboxylic acid, dibutyl ester	84-74-2		10/04/82	10/04/92

Category	CAS No. (examples for category)	Special exemptions	Effective date	Sunset date
1,2-Benzenedicarboxylic acid, dicyclohexyl ester	84-61-7		10/04/ 82	10/04/ 92
1,2-Benzenedicarboxylic acid, diethyl ester	84-66-2		10/04/ 82	10/04/ 92
1,2-Benzenedicarboxylic acid, dihexyl ester	84-75-3		10/04/ 82	10/04/ 92
1,2-Benzenedicarboxylic acid, diisodecyl ester	26761-40-0		10/04/ 82	10/04/ 92
1,2-Benzenedicarboxylic acid, diisononyl ester	28553-12-0		10/04/ 82	10/04/ 92
1,2-Benzenedicarboxylic acid, diisooctyl ester	27554-26-3		10/04/ 82	10/04/ 92
1,2-Benzenedicarboxylic acid, demethyl ester	131-11-3		10/04/ 82	10/04/ 92
1,2-Benzenedicarboxylic acid, dinonyl ester	84-76-4		10/04/ 82	10/04/ 92
1,2-Benzenedicarboxylic acid, dioctyl ester	117-84-0		10/04/ 82	10/04/ 92
1,2-Benzenedicarboxylic acid, diundecyl ester	119-06-2		10/04/ 82	10/04/ 92
1,2-Benzenedicarboxylic acid, isodecyl tridecyl ester	3648-20-2		10/04/ 82	10/04/ 92
1,2-Benzenedicarboxylic acid, 2-ethylhexyl-8-methylnonyl ester	89-13-4		10/04/ 82	10/04/ 92
1,2-Benzenedicarboxylic acid, hexyl isodecyl ester	61702-81-6		10/04/ 82	10/04/ 92
1,2-Benzenedicarboxylic acid, isodecyl tridecyl ester	61886-60-0		10/04/ 82	10/04/ 92
Alkyltin compounds.			01/03/ 83	12/29/ 88
Dibutyltin S,S'-bis(isooctyl mercaptoacetate)—Acetic acid, 2,2'-[(dibutylstannylene)bis(thio)]bis-, diisooctyl ester	25168-24-5		01/03/ 83	12/29/ 88
Dibutyltin S,S'-bis(isooctyl mercaptoacetate)—Acetic acid, 2,2'-[(dimethylstannylene)bis(thio)]bis-, diisooctyl ester	26636-01-1		01/03/ 83	12/29/ 88
Mono methyltin tris(isooctylmercaptoacetate) Acetic acid, 2,2',2''-[(methylstannylidene)tris(thio)]tris- triisoacetyl ester	54849-38-6		01/03/ 83	12/29/ 88

Category	CAS No. (examples for category)	Special exemptions	Effective date	Sunset date
Aniline and chloro-, bromo-, and/or nitroanilines.			10/04/ 82	10/04/ 92
Benzenamine	62-53-3		10/04/ 82	10/04/ 92
Benzenamine, 4-bromo-	106-40-1		10/04/ 82	10/04/ 92
Benzenamine, 2-bromo-6-chloro-4-nitro-	99-29-6		10/04/ 82	10/04/ 92
Benzenamine, 2-bromo-,4,6-dinitro-	1817-73-8		10/04/ 82	10/04/ 92
Benzenamine, 2-chloro-	95-51-2		10/04/ 82	10/04/ 92
Benzenamine, 3-chloro-	108-42-9		10/04/ 82	10/04/ 92
Benzenamine, 4-chloro-	106-47-8		10/04/ 82	10/04/ 92
Benzenamine, 2-chloro-4,6-dinitro-	3531-19-9		10/04/ 82	10/04/ 92
Benzenamine, 4-chloro-2,6-dinitro-	5388-62-5		10/04/ 82	10/04/ 92
Benzenamine, 3-chloro-, hydrochloride	141-85-5		10/04/ 82	10/04/ 92
Benzenamine, 2-chloro-4-nitro-	121-87-9		10/04/ 82	10/04/ 92
Benzenamine, 2-chloro-5-nitro-	6283-25-6		10/04/ 82	10/04/ 92
Benzenamine, 4-chloro-2-nitro-	89-63-4		10/04/ 82	10/04/ 92
Benzenamine, 4-chloro-3-nitro-	635-22-3		10/04/ 82	10/04/ 92
Benzenamine, 2,6-dibromo-4-nitro-	827-94-1		10/04/ 82	10/04/ 92
Benzenamine, 2,3-dichloro-	608-27-5		10/04/ 82	10/04/ 92
Benzenamine, 2,4-dichloro-	554-00-7		10/04/ 82	10/04/ 92
Benzenamine, 2,5-dichloro-	95-82-9		10/04/ 82	10/04/ 92
Benzenamine, 3,4-dichloro-	95-76-1		10/04/	10/04/

Category	CAS No. (examples for category)	Special exemptions	Effective date	Sunset date
Benzenamine, 3,5-dichloro-	626-43-7		82 10/04/	92 10/04/
Benzenamine, 2,6-dichloro-4-nitro-	99-30-9		82 10/04/	92 10/04/
Benzenamine, 2,4-dinitro-	97-02-9		82 10/04/	92 10/04/
Benzenamine, 2-nitro-	88-74-4		82 10/04/	92 10/04/
Benzenamine, 3-nitro-	99-09-2		82 10/04/	92 10/04/
Benzenamine, 4-nitro-	100-01-6		82 10/04/	92 10/04/
Benzenamine, 2,4,6-tribromo-	147-82-0		82 10/04/	92 10/04/
Benzenamine, 2,4,6-trichloro-	634-93-5		82 10/04/	92 10/04/
Aryl phosphates—phosphate esters of phenol or of alkyl-substituted phenols. Triaryl and mixed alkyl and aryl esters are included but trialkyl esters are excluded			82 10/04/	92 10/04/



Category	CAS No. (examples for category)
R ₁ = phenyl, either unsubstituted or substituted with one or more alkyl or aralkyl groups R ₂ = R ₃ alkyl; or	

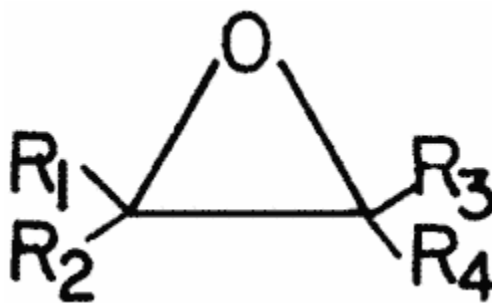
Category	CAS No. (example for category)
phenyl, either unsubstituted or substituted with one or more alkyl or aralkyl groups	
Phenol, dimethyl-, phosphate (3:1)	25155-23-
Phenol, 4-(1,1-dimethylethyl)-, phosphate (3:1)	78-33-
Phosphoric acid, dibutyl phenyl ester	2528-36-
Phosphoric acid, diisodecyl phenyl ester	51363-64-
Phosphoric acid, (1,1-dimethylethyl) phenyl diphenyl ester	56803-37-
Phosphoric acid, 2-ethylhexyl diphenyl ester	1241-94-
Phosphoric acid, isodecyl diphenyl ester	29761-21-
Phosphoric acid, (1-methylethyl)phenyl diphenyl ester	28108-99-
Phosphoric acid, methylphenyl diphenyl ester	25444-49-
Phosphoric acid, (1-methyl-1-phenylethyl)phenyl diphenyl ester	34364-42-
Phosphoric acid, triphenyl ester	115-86-
Phosphoric acid, tris(methylphenyl) ester	1330-78-
Phosphoric acid, tris(2-methylphenyl) ester	78-30-
Phosphoric acid, tris(3-methylphenyl) ester	563-04-
Phosphoric acid, tris(4-methylphenyl) ester	78-32-
Asbestos—asbestiform varieties of chrysolite (serpentine); crocidolite (riebeckite); amosite (cummingtonite—grunerite); anthophyllite; tremolite; and actinolite.	
Asbestos	1332-21-
Asbestiform minerals	12001-29-
Asbestiform minerals	17068-78-

Category	CAS No. (example for category)
Asbestiform minerals	12172-73-
Bisazobiphenyl dyes derived from benzidine and its congeners, <i>ortho</i> -toluidine (dimethylbenzidine) and dianisidine (dimethoxybenzidine).	
Benzoic acid, 2-[[2-amino-6-[[4'-[(-carboxy-4-hydroxyphenyl) azo]-3,3'-dimethoxy[1,1'-biphenyl]-4-yl]azo]-5-hydroxy-7-sulfo-1-naphthalenylazo]-5-nitro-, trisodium salt	6739-62-
Benzoic acid, 5-[[4'-[2-amino-8-hydroxy-6-sulfo-1-naphthalenyl) azo] [1,1'-biphenyl]-4-yl]-azo]-2-hydroxy-, disodium salt	2429-84-
Benzoic acid, 5-[[4'-[7-amino-1-hydroxy-3-sulfo-2-naphthalenyl)azo] [1,1'-biphenyl]-4-yl]azo]-2-hydroxy-, disodium salt	2429-82-
Benzoic acid, 5-[[4'-[(1-amino-4-sulfo-2-naphthalenyl)azo] [1,1'-biphenyl]-4-yl]azo]-2-hydroxy-, disodium salt	2429-79-
Benzoic acid, 5-[[4'-[[2,6-diamino-3-[[8-hydroxy-3,6-disulfo-7-[(4-sulfo-1-naphthalenyl)azo]-2-naphthalenyl]azo]-5-methylphenyl]azo] [1,1'-biphenyl]-4-yl]azo]-2-hydroxy-, tetrasodium salt	2429-81-
Benzoic acid, 5-[[4'-[(2,6-diamino-3-methyl-5-sulfophenyl)azo]-3,3'-dimethyl[1,1'-biphenyl]-4-yl]azo]-2-hydroxy-, disodium salt	6637-88-
Benzoic acid, 5-[[4'-[[2,6-diamino-3-methyl-5-[(4-sulfophenyl)azo]phenyl]azo][1,1'-biphenyl]-4-yl]azo]-2-hydroxy-, disodium salt	2586-58-
Benzoic acid, 5-[[4'-[[2,6-diamino-3-methyl-5-[(4-sulfophenyl)azo]phenyl]azo]1,1'-biphenyl]-4-yl]azo]-2-hydroxy-3-methyl-, disodium salt	6360-54-
Benzoic acid, 5-[[4'-[[2,4-dihydroxy-3-[(4-sulfophenyl)azo]phenyl]azo] [1,1'-biphenyl]-4-yl]azo]-2-hydroxy-, disodium salt	2893-80-
Benzoic acid, 3,3'-[(3,7-disulfo-1,5-naphthalene-diyl)bis[azo(6-hydroxy-3,1-phenylene)azo[6(or 7)-sulfo-4,1-naphthalenediyl]azo[1,1'-biphenyl]-4,4'-diylazo]]bis[6-hydroxy-, hexasodium salt	8014-91-
[1,1'-Biphenyl]-4,1'-bis diazonium), 3,3'-dimethoxy-	20282-70-
Butanamide, <i>N,N'</i> -(3,3'-dimethyl [1,1'-biphenyl]-4,4'-diyl)bis[3-oxo-	91-96-
C.I. Direct Blue 218	10401-50-
Cuprate(2-), [5-[[4'-[[2,6-dihydroxy-3-[(2-hydroxy-5-sulfophenyl)azo]phenyl]azo][1,1'-biphenyl]-4-yl]azo]-2-hydroxybenzoato(4-)-, disodium	16071-86-
Cuprate(3-), [μ-7-[[3,3'-dihydroxy-4'-[[1-hydroxy-6-(phenylamino)-3-sulfo-2-naphthalenyl]azo] [1,1'-biphenyl]-4-yl]azo]-8-hydroxy-1,6-naphthalenedisulfonato(7-)]di-, trisodium	6656-03-
Cuprate(4-), [μ-[[6,6'-[3,3'-dihydroxy[1,1'-biphenyl]-4-4'-diyl)bis(azo)]bis[4-amino-5-hydroxy-1,3-naphthalendisulfonato]](8-)]di-, tetrasodium	16143-79-
2-Naphthalenecarboxamide, <i>N,N'</i> -(3,3'-dimethoxy[1,1'-biphenyl]-4,4'-diyl)bis[3-hydroxy-	91-92-

Category	CAS No. (example for category)
1,3-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-6-[[4'-[(2hydroxy-1-naphthalenyl)azo]-3,3'-dimethoxy[1,1'-biphenyl]-4-yl]azo]-, disodium salt	2586-57-
1,3-Naphthalenedisulfonic acid, 6,6'-[(3,3'-dimethoxy[1,1'-biphenyl]-4,4'diyl)bis(azo)]bis[4-amino-5-hydroxy-, tetrasodium salt	2610-05-
1,3-Naphthalenedisulfonic acid, 8-[[4'-[(4-ethoxyphenyl)azo] [1,1'-biphenyl]-4-yl]azo]-7-hydroxy-, disodium salt	3530-19-6
1,3-Naphthalenedisulfonic acid, 8-[[4'-[4-ethoxyphenyl)azo]-3,3'-dimethyl] [1,1'-biphenyl]-4-yl]azo]-7-hydroxy-, disodium salt	6358-29-
1,3-Naphthalenedisulfonic acid, 7-hydroxy-8-[[4'-[[4-[(4-methylphenyl) sulfonyl]oxy]phenyl]-azo] [1,1'-biphenyl]-4-yl]azo]-, disodium salt	3567-65-
2,7-Naphthalenedisulfonic acid, 5-amino-3-[[4'-(7-amino-1-hydroxy-3-sulfo-2-naphthalenyl)-azo] [1,1'-biphenyl]-4-yl]azo]-4-hydroxy-, trisodium salt	2429-73-
2,7-Naphthalenedisulfonic acid, 4-amino-3-[[4'-[(2,4-diamino-5-methylphenyl)azo] [1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)-, disodium salt	2429-83-
2,7-Naphthalenedisulfonic acid, 4-amino-3-[[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] 5-hydroxy-6-(phenylazo)-, disodium salt	1937-37-
2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-6[[4'-[(4-hydroxyphenyl)azo] [1,1'-biphenyl]-4-yl]-azo]-3-[(4-nitrophenyl)azo]-, disodium salt	4335-09-
2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-3-[[4'-[(4-hydroxyphenyl)azo] [1,1'-biphenyl]-4-yl]azo]-6-(phenylazo)-, disodium salt	3626-28-
2,7-Naphthalenedisulfonic acid, 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis[5-amino-4-hydroxy-, tetrasodium salt	2602-46-
2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-dimethoxy[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[5-amino-4-hydroxy-, tetrasodium salt	2429-74-
2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-dimethyl-[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[5-amino-4-hydroxy-, tetrasodium salt	72-57-
2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-dimethyl-[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis-[4,5-dihydroxy-, tetrasodium salt	2150-54-
1-Naphthalenesulfonic acid, 3-[[4'[(6-amino-1-hydroxy-3-sulfo-2-naphthalenyl)azo]-3,3'-dimethoxy[1,1'-biphenyl]-4-yl]azo]-4-hydroxy-, disodium salt	6449-35-
1-Naphthalenesulfonic acid, 3,3'-[[1,1'-biphenyl]-4,4'-diyl-4,4'-diyl)bis(azo)]bis[(4-amino-,disodium salt	573-58-
1-Naphthalenesulfonic acid, 3,3'-[3,3'-dimethoxy-[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[4-hydroxy-, disodium salt	2429-71-
1-Naphthalenesulfonic acid, 3,3'-[(3,3'dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[4-amino-,disodium salt	992-59-
Chlorinated benzenes, mono-, di-, tri-, tetra-, and penta-	
Benzene, chloro-	108-90-

Category	CAS No. (example for category)
Benzene, 1,2-dichloro-	95-50-
Benzene, 1,3-dichloro-	541-73-
Benzene, 1,4-dichloro-	106-46-
Benzene, pentachloro-	608-93-
Benzene, 1,2,3,4-tetrachloro-	634-66-
Benzene, 1,2,3,5-tetrachloro-	634-90-
Benzene, 1,2,4,5-tetrachloro-	95-94-
Benzene, 1,2,3-trichloro-	87-61-
Benzene, 1,2,4-trichloro-	120-82-
Benzene, 1,3,5-trichloro-	108-70-
Chlorinated naphthalenes—chlorinated derivatives of naphthalene (empirical formula) $C_{10}H_xCl_y$ where $x = y = 8$.	
Naphthalene, chloro-	25586-43-
Naphthalene, chloro derivatives	70776-03-
Naphthalene, 1-chloro-	90-13-
Naphthalene, heptachloro-	32241-08-
Chlorinated paraffins—chlorinated paraffin oils and chlorinated paraffin waxes, with chlorine content of 35 percent through 70 percent by weight.	
Alkanes, chloro-	61788-76-
Alkanes, C_{6-18} , chloro-	68920-70-
Paraffin waxes and hydrocarbon waxes, chlorinated	63449-39-

Category	CAS No. (example for category)
Ethyltoluenes—This category consists of ethyltoluene (mixed isomers) and the ortho (1,2-), meta (1,3-) and para (1,4-) isomers Benzene, 1-ethyl-2-methyl-	611-14-
Fluoroalkenes—This category is defined as fluoroalkenes of the general formula: $C_n H_{2n-x} F_x$ where n equals 2 to 3 and X equals 1 to 6. Ethene, tetrafluoro-	116-14-
Ethene, trifluoro-	359-11-
1-Propene, 1,1,2,3,3,3-hexafluoro-	116-15-
Glycidol (oxiranemethanol) and its derivatives	



Category
R = H; alkyl, alkenyl or alkynyl; aryl; acyl. where R = alkyl, alkenyl, alkynyl, aryl, or acyl; any substituents or functional groups present with the alkyl, etc., groups 1,2-Cyclohexanedicarboxylic acid, bis(oxiranylmethyl) ester Disiloxane, 1,1,3,3-tetramethyl-1,3-bis[3-oxiranylmethoxy)propyl]- 2,4-Imidazolidinedione, 5,5-dimethyl-3-[2-(oxiranylmethoxy)propyl]-1-(oxiranylmethyl)-

Category

2,4-Imidazolidinedione, 3,3'-[2-(oxiranylmethoxy)-1,3-propanediyl]bis[5,5-dimethyl-1-(oxiranyl-methyl)-

Neodecanoic acid, oxiranylmethyl ester

Oxirane, 2,2'-[1,4-butanediylbis(oxymethylene)]bis

Oxirane, (butoxymethyl)-

Oxirane, 2,2'-[1,4-cyclohexanedilbis (methylenioxymethylene)]bis-

Oxirane, [(2,4-dibromophenoxy)methyl]-

Oxirane, [(1,2-dibromopropoxy)methyl]-

Oxirane, [(1,1-dimethylethoxy)methyl]-

Oxirane, [[4-(1,1-dimethylethyl)phenoxy]methyl]-

Oxirane, 2,2'-[(2,2-dimethyl-1,3-propanediyl)bis(oxymethylene)]bis-

Oxirane, [(dodecyloxy)methyl]-

Oxirane, 2,2'-[1,2-ethanediylbis (oxymethylene)]bis-

Oxirane, 2,2',2'',2'''-[1,2-ethanediylidenetetrakis-(4,1-phenyleneoxymethylene)]tetrakis-

Oxirane, (ethoxymethyl)-

Oxirane, [[[2-ethylhexyl)oxy]methyl]-

Oxirane, [(hexadecyloxy)methyl]-

Oxirane, 2,2',2''-[1,2,6-hexanetriyltris-(oxymethylene)]tris-

Oxirane, (methoxymethyl)-

Oxirane, 2,2'-[methylenebis(phenyleneoxymethylene)]bis-

Oxirane, 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis-

Category

Oxirane, [(1-methylethoxy)methyl]-

Oxirane, 2,2'-[(1-methylethylidene)bis[4,1-phenyl-eneoxy[1-(butoxymethyl)-2,1-ethanediyl]oxymethylene]]bis-

Oxirane, 2,2'-[1-methylethylidene) bis(4,1-phenyl-eneoxymethylene)]bis-

Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyl-eneoxymethylene)]bis-, homopolymer

Oxirane, 2,2'-

[(1-methylethylidene)bis[4,1-phenyleneoxy-3,1-propanediyl]oxy-4,1-phenylene(1-methylethylidene)-4,1-phenyleneoxymethylene]

Oxirane, [(methylphenoxy)methyl]-

Oxirane, [(2-methylphenoxy)methyl]-

Oxirane, [[4-(1-methyl-1-phenylethyl)phenoxy]-methyl]-

Oxirane, mono[C₆-C₁₂-alkyloxy)methyl]derivatives

Oxirane, mono[(C₈-C₁₂-alkyloxy)methyl]derivatives

Oxirane, mono[C₁₀-C₁₆-alkyloxy)methyl]derivatives

Oxirane, mono[(C₁₀-C₁₄-alkyloxy)methyl]derivatives

Oxirane, [(4-nitrophenoxy)methyl]-

Oxirane, [(4-nonylphenoxy)methyl]-

Oxirane, [(9-octadecenyl)oxy)methyl]-, (Z)-

Oxirane, [(octadecyloxy)methyl]-

Oxirane, 2,2'-(oxiranylmethoxy)-1,3-phenylene]bis(methylene)]bis-

Oxirane, 2,2'-[[[2-oxiranylmethoxy) phenyl]methylene]bis(4,1-phenyl-eneoxymethylene)]bis-

Oxirane, 2,2'-[oxybis(methylene)]bis-

Category

Oxirane, (phenoxymethyl)-

Oxirane, 2,2'-[1,3-phenylenebis (oxymethylene)]bis-

Oxirane, 2,2'-[1,4-phenylenebis (oxymethylene)]bis-

Oxirane, 2,2',21/4-[1,2,3-propanetriyl tris(oxymethylene)]tris-

Oxirane, [(2-propenyloxy)methyl]-

Oxirane, 2,2',21/4-[propylidynetris (4,1-phenyleneoxymethylene)]tris-

Oxirane, [(tetradecyloxy)methyl]-

Oxiranecarboxylic acid, 3-methyl-3-phenyl-, ethyl ester

Poly(oxy-1,2-ethanediyl)- α -[4-oxiranylmethoxy]benzoyl]- ω -[[4-oxiranylmethoxy]benzoyl]oxy]-

2-Propenoic acid, 2-methyl-, oxiranylmethyl ester

2-Propenoic acid, oxiranylmethyl ester

Silane, [(3-chloropropyl)(dimethoxy)[3-(oxiranylmethoxy)propyl]-

Silane, diethoxymethyl[3-(oxiranyl-methoxy)propyl]-

Silane, ethoxydimethyl[3-(oxiranyl-methoxy)propyl]-

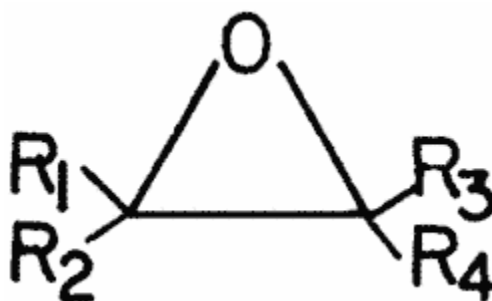
Silane, trimethoxy[3-(oxiranyl-methoxy)propyl]-

Tetrasiloxane, 1,1,1,3,5,7,7,7-octamethyl-3,5-bis[3-(oxiranylmethoxy)propyl]-

Trisiloxane, 1,1,1,3,5,5,5-heptamethyl-3-[3-(oxiranyl-methoxy)propyl]-

Halogenated alkyl epoxides—halogenated noncyclic aliphatic hydrocarbons with one or more epoxy functional groups.

Category



Category	CAS No. (examples for category)	Special exemptions	Effective date	Sunset date
$R_1 = X \text{ or } C_n H_{2n-1-y} X_y$ ($y = 1 \text{ to } 1n = 1$) $R_2 = H \text{ or } X \text{ or } C_n H_{2n-1-y} X_y$ ($y = 0 \text{ to } 2n = 1$) $R_3 = H \text{ or } X \text{ or } C_n H_{2n-1-y} X_y$ ($y = 0 \text{ to } 2n = 1$) $R_4 = H \text{ or } X \text{ or } C_n H_{2n-1-y} X_y$ ($y = 0 \text{ to } 2n = 1$) $X = \text{halogen}$. Groups R_1 - R_4 may contain one or more expoxide functions. Lead and lead compounds		§ 716.21 (a)(8)	February 28, 2008	April 28, 2008
Lead	7439-92-1	§ 716.21 (a)(8)	February 28, 2008	April 28, 2008
Acetic acid, lead (2 +) salt	301-04-2	§ 716.21 (a)(8)	February 28, 2008	April 28, 2008
Carbonic acid, lead (2 +) salt (1:1)	598-63-0	§ 716.21 (a)(8)	February 28, 2008	April 28, 2008
Lead chloride ($PbCl_2$)	7758-95-4	§ 716.21 (a) (8)	February 28, 2008	April 28, 2008

Category	CAS No. (examples for category)	Special exemptions	Effective date	Sunset date
Chromic acid (H ₂ CrO ₄), lead (2 +) salt (1:1)	7758-97-6	§ 716.21 (a)(8)	February 28, 2008	April 28, 2008
Lead oxide (PbO ₂)	1309-60-0	§ 716.21 (a)(8)	February 28, 2008	April 28, 2008
Oxirane, (2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptyl)-	38565-52-5		10/04/ 82	12/29/ 88
Borate (1-), tetrafluoro-, lead (2 +) (2:1)	13814-96-5	§ 716.21 (a)(8)	February 28, 2008	April 28, 2008
Phosphoric acid, lead (2 +) salt (2:3)	7446-27-7	§ 716.21 (a)(8)	February 28, 2008	April 28, 2008
Silicic acid, lead salt, basic	53466-66-3	§ 716.21 (a)(8)	February 28, 2008	April 28, 2008
Octadecanoic acid, lead salt (1:?)	7428-48-0	§ 716.21 (a)(8)	February 28, 2008	April 28, 2008
Sulfuric acid, lead salt (1:?), basic	63653-42-9	§ 716.21 (a)(8)	February 28, 2008	April 28, 2008
Oxirane, (bromomethyl)-	3132-463-7		10/04/ 82	12/29/ 88
Oxirane, (2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptyl)-	38565-52-5		10/04/ 82	12/29/ 88
Lead sulfide (PbS)	1314-8 7-0	§ 716.21 (a)(8)	February 28, 2008	April 28, 2008
Phenylenediamines (Benzenediamines). This category is defined as all nitrogen unsubstituted phenylenediamines and their salts with zero to two substitutents on the ring selected from the same of different members of the group of halo, nitro, hydroxy, hydroxy-lower alkoxy, lower-alkyl, and lower alkoxy. For this purpose, the term "lower" is defined as a group containing between one and four carbons.			04/29/ 83	04/29/ 93
1,2-Benzenediamine	95-54-5		4/29/83	4/29/

Category	CAS No. (examples for category)	Special exemptions	Effective date	Sunset date
1,3-Benzenediamine	108-45-2		4/29/83	93 4/29/93
1,2 - Benzenediamine, 4-butyl-	3663-23-8		4/29/83	12/29/88
1,2 - Benzenediamine, 4-butyl-	95-83-0		4/29/83	4/29/83
1,3-Benzenediamine, 4-chloro-	5131-60-2		04/29/83	04/29/93
1,4-Benzenediamine, 2-chloro-, dihydrochloride	615-46-3		04/29/83	12/29/88
1,2-Benzenediamine, 5-chloro-3-nitro-	42389-30-0		04/29/83	12/29/88
1,2-Benzenediamine, 4-chloro-, sulfate (1:1)	68459-98-3		04/29/83	12/29/88
1,3-Benzenediamine, 4-chloro-, sulfate (1:1)	68239-80-5		04/29/83	12/29/88
1,4-Benzenediamine, 2-chloro-, sulfate	6219-71-2		04/29/83	12/29/88
1,4-Benzenediamine, 2,5-dichloro-	20103-09-7		04/29/83	12/29/88
1,2-Benzenediamine, dihydrochloride	615-28-1		04/29/83	04/29/93
1,3-Benzenediamine, dihydrochloride	541-69-5		04/29/83	04/29/93
1,4-Benzenediamine, dihydrochloride	624-18-0		04/29/83	04/29/93
1,4-Benzenediamine, ethanedioate (1:1)	62654-17-5		04/29/83	04/29/93
1,2-Benzenediamine, 4-ethoxy-	1197-37-1		04/29/83	12/29/88
1,3-Benzenediamine, 4-ethoxy-dihydrochloride	67801-06-3		04/29/83	12/29/88
1,3-Benzenediamine, 4-ethoxy-, sulfate (1:1)	68015-98-5		04/29/83	12/29/88
1,3-Benzenediamine, <i>ar</i> -ethyl- <i>ar</i> -methyl-	68966-84-7		04/29/83	12/29/88
1,4-Benzenediamine, 2-methoxy	5307-02-8		04/29/83	04/29/93

Category	CAS No. (examples for category)	Special exemptions	Effective date	Sunset date
1,2-Benzenediamine, 4-methoxy-, dihydrochloride	614-94-8		04/29/ 83	12/29/ 88
1,3-Benzenediamine, 4-methoxy-, sulfate	6219-67-6		04/29/ 83	12/29/ 88
1,3-Benzenediamine, 4-methoxy-, sulfate (1:1)	39156-41-7		04/29/ 83	04/29/ 93
Benzenediamine, <i>ar</i> -methyl-	25376-45-8		04/29/ 83	04/29/ 93
1,2-Benzenediamine, 3-methyl-	2687-25-4		04/29/ 83	04/29/ 93
1,2-Benzenediamine, 4-methyl-	496-72-0		04/29/ 83	04/29/ 93
1,3-Benzenediamine, 2-methyl-	823-40-5		04/29/ 83	04/29/ 93
1,3-Benzenediamine, 4-methyl-	95-80-7		04/29/ 83	04/29/ 93
1,3-Benzenediamine, 5-methyl-	108-71-4		04/29/ 83	04/29/ 93
1,4-Benzenediamine, 2-methyl-	95-70-5		04/29/ 83	04/29/ 93
1,4-Benzenediamine, 2-methyl-, dihydrochloride-	615-45-2		04/29/ 83	04/29/ 93
1,4-Benzenediamine, 2-methyl-, sulfate	6369-59-1		04/29/ 83	04/29/ 93
1,4-Benzenediamine, 2-methyl-, sulfate (1:1)	615-50-9		04/29/ 83	04/29/ 93
1,2-Benzenediamine, 4-nitro-	99-56-9		04/29/ 83	04/29/ 93
1,3-Benzenediamine, 4-nitro-,	5131-58-8		04/29/ 83	12/29/ 88
1,3-Benzenediamine, 5-nitro-,	5042-55-7		04/29/ 83	12/29/ 88
1,4-Benzenediamine, 2-nitro-,	5307-14-2		04/29/ 83	04/29/ 93
1,2-Benzenediamine, 4-nitro-, dihydrochloride	6219-77-8		04/29/ 83	12/29/ 88
1,4-Benzenediamine, 2-nitro-, dihydrochloride	18266-52-9		04/29/ 83	12/29/ 88
1,2-Benzenediamine, 4-nitro-, sulfate (1:1)	68239-82-7		04/29/	12/29/

Category	CAS No. (examples for category)	Special exemptions	Effective date	Sunset date
1,4-Benzenediamine, 2-nitro-, sulfate (1:1)	68239-83-8		83 04/29/	88 12/29/
1,3-Benzenediamine, sulfate (1:1)	541-70-8		83 04/29/	88 04/29/
1,4-Benzenediamine, sulfate (1:1)	16245-77-5		83 04/29/	93 04/29/
Ethanol, 2-(2,4-diaminophenoxy)-, dihydrochloride	66422-95-5		83 04/29/	88 12/29/
Phenol, 2,4-diamino-, dihydrochloride	137-09-7		83 04/29/	93 04/29/
Phenol, 2,4-diamino-6-methyl-	15872-73-8		83 04/29/	88 12/29/
Phenol, 2,4-diamino-6-methyl-, hydrochloride	65879-44-9		83 04/29/	88 12/29/

- (d) **Listed members of categories.** The following categories are listed in alphabetical order with the chemical substances identified in each category also listed alphabetically. Only those chemical substances specifically listed within a category are subject to all provisions of part 716 for the time period from the effective date of the rule until the sunset date.

TABLE 3 TO PARAGRAPH (d)

Category
Aldehydes:
Acetaldehyde
Acetaldehyde, chloro-
Acetaldehyde, (1,3-dihydro-1,3,3-trimethyl-2 <i>H</i> -indol-2-ylidene)
Acetaldehyde, trichloro-
Benzaldehyde
Benzaldehyde, 3-bromo-
Benzaldehyde, 4-butyl-
Benzaldehyde, 2-chloro-
Benzaldehyde, 4-chloro-

Category
Benzaldehyde, 4-(diethylamino)-
Benzaldehyde, 4-(diethylamino)-2-hydroxy-
Benzaldehyde, 2,4-dihydroxy-
Benzaldehyde, 2,5-dimethoxy-
Benzaldehyde, 3,4-dimethoxy-
Benzaldehyde, (dimethylamino)-
Benzaldehyde, 4-(dimethylamino)-
Benzaldehyde, 4-ethoxy-
Benzaldehyde, 3-ethoxy-4-hydroxy-
Benzaldehyde, 2-hydroxy-
Benzaldehyde, 4-hydroxy-
Benzaldehyde, 4-hydroxy-3-methoxy-
Benzaldehyde, 2-hydroxy-5-nitro-
Benzaldehyde, 2-methoxy-
Benzaldehyde, 4-methoxy-
Benzaldehyde, methyl-
Benzaldehyde, 4-methyl-
Benzaldehyde, 2-nitro-
Benzaldehyde, 3-phenoxy-
Benzaldehyde, 4-(trifluoromethyl)-
Benzeneacetaldehyde
Benzeneacetaldehyde, alpha-methyl-
Benzeneacetaldehyde, 4-methyl-
Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl-
Benzenepropanal, .alpha.-methyl-4-(1-methylethyl)-
1,3-Benzodioxole-5-carboxaldehyde
1,3-Benzodioxole-5-carboxaldehyde, 7-methoxy-
Butanal, 3-methyl-
3-Cyclohexene-1-carboxaldehyde
3-Cyclohexene-1-carboxaldehyde, dimethyl-
3-Cyclohexene-1-carboxaldehyde, 4-(4-hydroxy-4-methylpentyl)-
3-Cyclohexene-1-carboxaldehyde, 1-methyl-4-(4-methyl-3-pentenyl)-
3-Cyclohexene-1-carboxaldehyde, 1-methyl-4-(4-methylpentyl)-
3-Cyclohexene-1-carboxaldehyde, 4-(4-methyl-3-pentenyl)-
3-Cyclohexene-1-carboxaldehyde, 2,4,6-trimethyl-
3-Cyclopentene-1-acetaldehyde, 2,2,3-trimethyl-
Decanal
4a(4H)-Dibenzofurancarboxaldehyde, 1,5a,6,9,9a,9b-hexahydro-

Category
Dodecanal
Ethanedial
Heptanal
Heptanal, 2-(phenylmethylene)-
5-Heptenal, 2,6-dimethyl-
Hexanal, 2-ethyl-
Hexanal, 3,5,5-trimethyl-
2-Hexenal
Hexenal, 2-ethyl-
Indium Compounds:
Acetic acid, indium(3 +) salt
Indium
Indium chloride (InCl3)
Indium hydroxide (In(OH)3)
Indium oxide (In2O3)
Indium phosphide (InP)
Indium tin oxide
Sulfamic acid, indium(3 +) salt
Sulfuric acid, indium(3 +) salt (3:2)
1-Naphthalene carboxaldehyde
Nonanal
2,6-Octadienal, 3,7-dimethyl-, (E)
2,6-Octadienal, 3,7-dimethyl-, (Z)
Octanal
Octanal, 3,7-dimethyl-
Octanal, 7-hydroxy-3,7-dimethyl-
Octanal, 7-methoxy-3,7-dimethyl-
Octanal, 2-(phenylmethylene)-
6-Octenal, 3,7-dimethyl-
6-Octenal, 3,7-dimethyl-, (S)-
Pentanal

Category
Pentanedial
1-Piperidinecarboxaldehyde
Propanal
Propanal, 3-hydroxy-2,2-dimethyl-
2-Propenal, 2-methyl-
Propanal, 3-(methylthio)-
2-Propenal
2-Propenal, 3- 4-(1,1-dimethylethyl)phenyl -2-methyl-
2-Propenal, 3-(2-methoxyphenyl)-
2-Propenal, 2-methyl-
2-Propenal, 2-methyl-3-phenyl-
2-Propenal, 3-phenyl-
2-Propenal, 3-phenyl-, monopentyl deriv.
2-Pyridinecarboxaldehyde
2-Thiophene carboxaldehyde
Undecanal
Undecanal, 2-methyl-
9-Undecenal
10-Undecenal
Alkyl-, Chloro-, and Hydroxymethyl Diaryl Ethers:
Benzene, 1-(bromomethyl)-3-phenoxy-
Benzenemethanol, 3-phenoxy-,
Benzenemethanol, 3-phenoxy-, acetate
Benzene, 1-methyl-3-phenoxy-
Benzene, 1,1'-oxybis[dodecyl-
Benzene, 1,1'-oxybis[methyl-
Benzene, 1,1'-oxybis[(1,1,3,3-tetramethylbutyl)-
Benzoic acid, 3-[2-chloro-4-(trifluoromethyl)phenoxy]-,
Benzoic acid, 3-[2-chloro-4-(trifluoromethyl)phenoxy], potassium salt
1,1'-Biphenyl, phenoxy-
2-Chloro-1-(3-methylphenoxy)-4-(trifluoromethyl)benzene
1,4-Diphenoxybenzene
Phenol, 3-[2-chloro-4-(trifluoromethyl)phenoxy]-, acetate
Alkyl Phosphates:
Ethanol, 2-butoxy-, phosphate (3:1)
Ethanol, 2-(2-butoxyethoxy)-, phosphate (3:1)
Phosphoric acid, bis(2-ethylhexyl) ester
Phosphoric acid, dibutyl ester

Category
Phosphoric acid, didodecyl ester
Phosphoric acid, diisooctyl ester
Phosphoric acid, dodecyl ester
Phosphoric acid, 2-ethylhexyl ester
Phosphoric acid, monobutyl ester
Phosphoric acid, mono(2-ethylhexyl)ester
Phosphoric acid, monohexyl ester
Phosphoric acid, monomethyl ester
Phosphoric acid, mono(1-methylethyl)ester
Phosphoric acid, monooctyl ester
Phosphoric acid, monooctadecyl ester
Phosphoric acid, triethyl ester
Phosphoric acid, tris(2-ethylhexyl) ester
Phosphoric acid, tris(2-methylpropyl) ester
Phosphorodichloridic acid, ethyl ester
Alkylphenols and Alkylphenol Ethoxyates:
tert-Butylphenol (mixed isomers)
2-Butylphenol
2-tert-Butylphenol
4-n-Butylphenol
4-sec-Butylphenol
4-tert-Butylphenol
Decaethylene glycol 4-isooctylphenyl ether
4-Dodecylphenol

Category
Dodecylphenol (mixed isomers)
Dedecylphenol (mixed isomers)
Hexaethylene glycol 4-isooctylphenyl ether
Isobutylphenol (mixed isomers)
Isononylphenol (mixed isomers)
4-(1-Methylbutyl)phenol
(1-Methylheptyl)phenol (mixed isomers)
4-(1-Methyloctyl)phenol
Nonylphenol (mixed isomers)
4-Nonylphenol
Branched 4-nonylphenol (mixed isomers)
2-Octylphenol
4-Octylphenol

Category
4-Pentylphenol
4-tert-Pentylphenol
Polyethylene glycol mono(octyl)phenyl ether
Polyethylene glycol 4-(tert-octyl)phenyl ether
Poly(oxy-1,2-ethanediyl), α -(octylphenyl)- ω -hydroxy-, branched
2-(1,1,3,3-Tetramethylbutyl)phenol
(1,1,3,3-Tetramethylbutyl)phenol (mixed isomers)
4-(2,2,3,3-Tetramethylbutyl)phenol
Brominated flame retardants: Alkanes, C10-18, bromochloro- Benzamide, 3,5-dibromo-N-(4-bromophenyl)-2-hydroxy- Benzene, ethenyl-, homopolymer, brominated Benzene, 1,1'-(1-methylethylidene)bis (3,5-dibromo-4-(2-propenyloxy)-

Category
<p>Benzene, pentabromomethyl-</p> <p>Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-</p> <p>Cyclohexane, tetrabromodichloro-</p> <p>Cyclohexane, tribromotrichloro-</p> <p>Ethanol, 2,2'-((1-methylethylidene)bis ((2,6-dibromo-4,1-phenylene)oxy)) bis-</p> <p>Ethene, bromo-</p> <p>Phenol, 2,4-dibromo-</p> <p>Phenol, 2,4(or 2,6)-dibromo-,homopolymer</p> <p>1-Propanol, 2,3-dibromo-</p> <p>1-Propanol, 2,2-dimethyl-,tribromo deriv</p> <p>2-Propenoic acid,(1-methylethylidene)bis (2,6-dibromo-4,1-phenylene) ester</p> <p>Chloroalkyl phosphates:</p> <p>2,2-Bis(chloromethyl)-1,3-propanediyltetrakis(2-chloroethyl) phosphate</p> <p>2-Chloro-1-methylethylbis(2-chloropropyl) phosphate-</p> <p>1,2-Ethanediy l tetrakis(2-chloro-1-methylethylene) phosphate</p> <p>Oxydi-2,1-ethanediy ltetrakis(2-choloroethyl) phosphate</p> <p>Cyanoacrylates:</p> <p>2-Propenoic acid, 2-cyano-, methyl ester</p> <p>2-Propenoic acid, 2-cyano-, isobutyl ester</p> <p>2-Propenoic acid, 2-cyano-3,3-diphenyl-, 2-ethylhexyl ester</p> <p>2-Propenoic acid, 2-cyano-, butyl ester</p> <p>2-Propenoic acid, 2-cyano-, ethyl ester</p> <p>2-Propenoic acid, 2-cyano-, 2-propenyl ester</p> <p>2-Propenoic acid, 2-cyano-, 1-methylethyl ester</p> <p>2-Propenoic acid, 2-cyano-, ethoxy ethyl ester</p> <p>2-Propenoic acid, 2-cyano-, 2,2,2-trifluoromethyl ester</p> <p>2-Propenoic acid, 2-cyano-, 2-methoxyethyl ester</p> <p>Ethanaminium, 2-[[2-cyano-3-[4-(diethylamino)phenyl]-1-oxo-2-propenyl]oxy]-N,N,N-trimethyl-, chloride</p> <p>High-Priority Substances:</p> <p>1,3-Butadiene</p> <p>Butyl benzyl phthalate (BBP)—1,2-Benzene-dicarboxylic acid, 1-butyl 2(phenylmethyl) ester</p> <p>Dibutyl phthalate (DBP) (1,2-Benzene-dicarboxylic acid, 1,2-dibutyl ester)</p> <p>o-Dichlorobenzene</p> <p>p-Dichlorobenzene</p>

Category
1,1-Dichloroethane
1,2-Dichloroethane
Trans-1,2-Dichloroethylene
1,2-Dichloropropane
Dicyclohexyl phthalate
Di-ethylhexyl phthalate (DEHP)—(1,2-Benzene-dicarboxylic acid, 1,2-bis(2-ethylhexyl) ester)
Di-isobutyl phthalate (DIBP)—(1,2-Benzene-dicarboxylic acid, 1,2-bis-(2methylpropyl) ester)
Ethylene dibromide
Formaldehyde
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta [g]-2-benzopyran (HHCB)
4,4'-(1-Methylethylidene)bis[2,6-dibromophenol] (TBBPA)
Phosphoric acid, triphenyl ester (TPP)
Phthalic anhydride
1,1,2-Trichloroethane
Tris(2-chloroethyl) phosphate (TCEP)
Indium Compounds:
Acetic acid, indium(3 +) salt
Indium
Indium chloride (InCl ₃)
Indium hydroxide (In(OH) ₃)
Indium oxide (In ₂ O ₃)

Category
Indium phosphide (InP)
Indium tin oxide
Sulfamic acid, indium(3 +) salt
Sulfuric acid, indium(3 +) salt (3:2)
IRIS Chemicals:
3,4-Dimethylphenol
2,4-Dinitrophenol
Isocyanates:
Acetic acid, isocyanato-, ethyl ester
Benzene, bis(isocyanatomethyl)-
Benzene, 1-bromo-4-isocyanato-
Benzene, 1-chloro-3-isocyanato-
Benzene, 1-chloro-4-isocyanato-
Benzene, 1,2-dichloro-4-isocyanato-
Benzene, 1,3-dichloro-5-isocyanato-
Benzene, 1,1'-(diisocyanatomethylene)bis-
Benzene, isocyanato-
Benzene, 2-isocyanato-1,3-bis(1-methylethyl)-
Benzene, 2-isocyanato-1,3-dimethyl-, ester
Benzene, 1-isocyanato-2-methyl-
Benzene, 1-isocyanato-4-methyl-
Benzene, 1-isocyanato-4-nitro-
Benzene, 1-isocyanato-3-(trifluoromethyl)-
Benzene, 1,1',1''-methylidynetris(4-isocyanato-
Butane, 1-isocyanato-
Cyclohexane, 2-heptyl-3,4-bis (9-isocyanatononyl)-1-pentyl-
Cyclohexane, isocyanato-
1,3-Diazetidene-2,4-dione, 1,3-bis(3-isocyanato methylphenyl)-
Ethane, isocyanato-
Imidodicarbonic diamide, N,N'-2-tris(6-isocyanatohexyl)-
Methane, isocyanato-
Octadecane, 1-isocyanato-
Phenol, 4-isocyanato-, phosphorothioate (3:1) (ester)
Propane, 1-isocyanato-
1-Propene, 3-isocyanato-

Category
2-Propenoic acid, 2-methyl-, 2- isocyanatoethyl ester
2-Propenoic acid, 2-methyl-2-((((5-isocyanato-1,3,3-trimethylcyclohexyl)methyl)amino) carbonyl)oxy)ethyl ester
1,3,5,-Triazine-2,4,6(1H.3H.5H-trione, 1,3,5-tris(3-isocyanatomethylphenyl)-
Methyl ethylene glycol ethers and esters:
Ethylene glycol monomethy ether acrylate
Tetraethylene glycol monomethyl ether
OPPT 2024 CHEMICALS
Acetaldehyde
Acrylonitrile
2-anilino-5-[(4-methylpentan-2-yl)amino]cyclohexa-2,5-diene-1,4-dione (6PPD-quinone)
Benzenamine
Benzene
Bisphenol A

Category
Ethylbenzene
Hydrogen fluoride
4,4-Methylene bis(2-chloraniline)
N-(1,3-Dimethylbutyl)-N'-phenyl-p-phenylenediamine (6PPD)
Naphthalene
Styrene
4-tert-octylphenol(4-(1,1,3,3-Tetramethylbutyl)-phenol)

Category
Tribromomethane (Bromoform)
Triglycidyl isocyanurate
Vinyl Chloride
Organohalogen flame retardants: Bis(2-ethylhexyl) tetrabromophthalate
Bis(hexachlorocyclopentadieno) cyclooctane
1,2-Bis(2,4,6-tribromophenoxy)ethane
1,1'-Ethane-1,2-diylbis(pentabromobenzene)
2-Ethylhexyl-2,3,4,5-tetrabromobenzoate
2-(2-Hydroxyethoxy)ethyl 2-hydroxypropyl 3,4,5,6-tetrabromophthalate
2,2'-[(1-Methylethylidene)bis[(2,6-dibromo-4,1-phenylene)oxymethylene]]bis[oxirane]
Mixture of chlorinated linear alkanes C14-17 with 45-52% chlorine
N,N-Ethylene-bis(tetrabromophthalimide)
Pentabromochlorocyclohexane

Category
(Pentabromophenyl)methyl acrylate
Pentabromotoluene
Perbromo-1,4-diphenoxybenzene
Phosphonic acid, (2-chloroethyl)-, bis(2-chloroethyl) ester
Phosphoric acid, 2,2-bis(chloromethyl)-1,3-propanediyl tetrakis(2-chloroethyl) ester
Propanoic acid, 2-bromo-, methyl ester
Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
Tetrabromobisphenol A bis(2-hydroxyethyl) ether
Tetrabromobisphenol A diallyl ether
Tetrabromobisphenol A dimethyl ether
2,4,6-Tribromoaniline
1,3,5-Tribromo-2-(prop-2-en-1-yloxy)benzene
Tris(2-chloroethyl)phosphite
Tris(1-chloro-2-propyl)phosphate
Tris(2-chloro-1-propyl)phosphate
Tris(2,3-dibromopropyl)phosphate
1,3,5-Tris(2,3-dibromopropyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione
Tris(1,3-dichloro-2-propyl)phosphate
Tris(tribromoneopentyl)phosphate
2,4,6-Tris-(2,4,6-tribromophenoxy)-1,3,5-triazine

Category
OSHA Chemicals in Need of Dermal Absorption Testing:
Amitrole
<i>n</i> -Amyl acetate
<i>o</i> -Anisidine
Benzyl chloride
<i>sec</i> -Butyl acetate
<i>tert</i> -Butyl acetate
<i>sec</i> -Butyl alcohol
<i>tert</i> -Butyl alcohol
<i>t</i> -Butylcatechol
<i>o</i> - <i>sec</i> -butylphenol
Camphor
Carbon disulfide
Catechol
<i>a</i> -Chloroacetophenone

Category
Chlorobenzene
o-Chlorotoluene
Cyclohexene
Cyclohexanol
Cyclopentadiene
Cyclopentane
Diacetone alcohol
Dibutyl phosphate
1,2-Dichloroethylene
Dicylcopentadiene
Dimethyl acetamide
Dimethylaniline

Category
Dimethyl sulfate
m-Dinitrobenzene
o-Dinitrobenzene
p-Dinitrobenzene
2,4-Dinitrotoluene
Diphenylamine
Disulfiram
Ethyl bromide
Ethyl ether
Heptane (n-Heptane)
Indene
Isoamyl acetate
N-Isopropylaniline
p-Methoxyphenol

Category
Methyl acetate
Methylcyclohexane
Methyl formate
Methyl isoamyl ketone
p-Nitroaniline
p-Nitrochlorobenzene
1-Nitropropane
2-Nitropropane
m-Nitrotoluene
o-Nitrotoluene
p-Nitrotoluene
Nonane
Pentane

Category
Phenylhydrazine
Propylene glycol dinitrate
Sodium bisulfite
Sodium metabisulfite
Tetrahydrofuran
m-Toluidine
Vinylidene chloride
Vinyl toluene
p-Xylene
Xylidine
Propylene glycol ethers and esters:
Dipropylene glycol
Dipropylene glycol butyl ether
Dipropylene glycol monomethyl ether acetate
1-(2-Methoxy-1-methylethoxy)-2-propanol
Methoxy-1-propanol
1-Phenoxy-2-propanol
Propylene glycol monobutyl ether
Propylene glycol monomethyl ether acetate

Category
Propylene glycol mono-tert-butyl ether
Tripropylene glycol diacrylate
Tripropylene glycol methyl ether
Siloxanes:
Cyclopolydimethylsiloxane
Decamethylcyclopentasiloxane
Decamethyltetrasiloxane
Dimethyldiphenylsiloxane
Dimethylhydropolylsiloxane
Dimethylmethyl 3,3,3-trifluoropropyl siloxane
Dimethylmethylvinylsiloxane
Dimethylpolysiloxanes
Dimethyl silicones and siloxanes
Dimethyl silicones and siloxane, reaction products with silica
Docosamethylcycloundecasiloxane
Docosamethyldecasiloxane
Dodecamethylcyclohexasiloxane
Dodecamethylpentasiloxane
Dotetracontamethyleicosasiloxane
Dotriacontamethylcyclohexadecasiloxane
Dotriacontamethylpentadecasiloxane
Eicosamethylcyclodecasiloxane
Eicosamethylnonasiloxane

Category
Hexacosamethylcyclotridecasiloxane
Hexacosamethyldodecasiloxane
Hexadecamethylcyclooctasiloxane
Hexadecamethylheptasiloxane
Hexamethylcyclotrisiloxane
Hexamethyldisilazane
Hexamethyldisiloxane
Hexatriacontamethylcyclooctadecasiloxane
Hexatriacontamethylheptadecasiloxane
Methylpolysiloxane
Methylvinylcyclosiloxane
Siloxanes and silicones, di-Me, hydroxy-terminated
Octacosamethylcyclotetradecasiloxane
Octacosamethyltridecasiloxane
Octadecamethylcyclononasiloxane
Octadecamethyloctasiloxane
Octamethyltrisiloxane
Octaphenylcyclotetrasiloxane
Octatriacontamethylcyclononadecasiloxane

Category
Octatriacontamethyloctadecasiloxane
Polymethyloctadecylsiloxane
Tetracontamethylcycloeicosasiloxane
Tetracontamethylnonadecasiloxane
Tetracosamethylcyclododecasiloxane
Tetracosamethylundecasiloxane
Tetradecamethylcycloheptasiloxane
Tetradecamethylhexasiloxane
Tetramethylcyclotetrasiloxane
Tetramethyldivinylidisiloxane
Tetratriacontamethylcycloheptadecasiloxane
Tetratriacontamethylhexadecasiloxane
Triacontamethylcyclopentadecasiloxane
Triacontamethyltetradecasiloxane
Trifluoropropylmethylcyclotrisiloxane
Substantially produced chemicals in need of subchronic tests:
Acetoacetanilide

Category
4-(Acetylamino)benzenesulfonyl chloride
2-(2-Aminoethoxy)-ethanol
7-Amino-4-hydroxy-2-naphthalenesulfonic acid
Ammonium carbamate
1,3-Benzenedisulfonic acid
Bis(2-ethylhexyl)-2-butenedioate
Bromamine acid
Butyric anhydride
Ethanol, 2-(2-ethoxyethoxy)-, acetate
1,2-Dichlorobutane
3,4-Dichlorobutene
3,4-Dichloronitrobenzene
1,3-Dicyanobenzene
Diethylene glycol dimethyl ether
4-Ethoxynitrobenzene
2-Ethylanthraquinone
Hexa(methoxymethyl) melamine
3-Hydroxy-2-naphthoic acid
Isobutyl acrylate
Isophthaloyl chloride
4-Methyl-2-nitro-phenol
2-(4-Morpholinylthio)-benzothiazole
Naphthalenedicarboxylic anhydride
1-Naphthol
<i>p,p'</i> -Oxybis(benzenesulfonylhydrazide)
2,4-Pentanedione
Perfluoro-N-hexane
Perfluorotributylamine
Propanoic anhydride
Quinacridone
Terephthaloyl chloride
Trichloromethanesulfonyl chloride
Triethylene glycol bis(2-ethylhexanoate)
Sulphones:
2-Amino-4-[(2-hydroxyethyl) sulfonyl]phenol
2-Amino-4-(methylsulfonyl)phenol
2-[(6-Amino-2-naphthalenyl) sulfonyl]ethanol
2-[(3-Aminophenyl)sulfonyl]ethanol

Category
Bisphenol S
3-(Decyloxy)tetrahydrothiophene 1,1-dioxide
4,4'-Diaminodiphenyl sulfone
4-[4-[(2,6-Dichloro-4-nitrophenyl)azo]phenyl] thiomorpholine, 11,1-dioxide
1-(Diiodomethyl)sulfonyl-4-methyl benzene
Dimethylsulfone
Diphenylsulfone
3-[N-Ethyl-4-[[6-(methylsulfonyl)-2-benzothiazolyl]azo]-m-toluidino]propionitrile
1,1'-[Methylenebis(sulfonyl)]bis-2-chloroethane
2,2'-[Methylenebis(sulfonyl)]bisethanol
1,1'-[Methylenebis(sulfonyl)]bisethene
6-Methylsulfonyl-2-benzothiazolamine
2-[(3-Nitrophenyl)sulfonyl]ethanol
1,1'-[Oxybis(methylenesulfonyl)]bis-2-chloroethane
2,2'-[Oxybis(methylenesulfonyl)] bisethanol
1,1'-[Oxybis(methylenesulfonyl)] bisethene
4-[[4-(Phenylmethoxy)phenyl]sulfonyl] phenol
4-Phenylthiomorpholine, 1,1-dioxide
Sulfolane
3-Sulfolene
Sulfonyl bis(4-chlorobenzene)
2,2'-Sulfonyl bisethanol
Voluntary HPV Challenge Program orphan (unsponsored) chemicals:
Acetaldehyde, reaction products with formaldehyde, by-products from
Acetamide, 2,2-dichloro-N,N-di-2-propenyl-
Acid chlorides, tallow, hydrogenated
Alkanes, chloro
Alkenes, C>10 .alpha.-
Amides, coco, N-[3-(dimethylamino)propyl], alkylation products with sodium 3-chloro-2-hydroxypropanesulfonate
Amides, tall-oil fatty, N,N-di-Me
Anthracene oil

Category
Aromatic hydrocarbons, C8, o-xylene-lean
Aromatic hydrocarbons, C9-16, biphenyl deriv.-rich
Barium, carbonate nonylphenol complexes
Benzaldehyde, 3-bromo-
Benzaldehyde, 3-phenoxy-
Benzaldehyde, 4-(1,1-dimethylethyl)-
Benzenamine, 2,6-diethyl-N-methylene-
Benzenamine, 2-ethyl-6-methyl-N-methylene-
Benzenamine, 3-(trifluoromethyl)-
Benzenamine, N,N-dimethyl-
Benzenamine, N-phenyl-4-[[4-(phenylamino)phenyl][4-(phenylimino)-2,5-cyclohexadien-1-ylidene]methyl]-, monohydrochloride
Benzene, (2-chloro-1,1-dimethylethyl)-
Benzene, 1-(bromomethyl)-3-phenoxy-
Benzene, 1,1'-[1,2-ethanediylbis(oxy)]bis-
Benzene, 1,1'-oxybis-, tetrapropylene derivs.
Benzene, 1,2-dimethyl-3-nitro-
Benzene, 1-bromo-4-fluoro-
Benzene, 1-chloro-2,4-dinitro-
Benzene, 1-chloro-4-(trichloromethyl)-
Benzene, 1-chloro-4-(trifluoromethyl)-
Benzene, 1-methoxy-4-methyl-

Category
Benzene, chloromethyl-
Benzene, ethenylethyl-
Benzene, ethylenated
Benzene, mixed with toluene, dealkylation product
1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester
1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt
1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester
1,4-Benzenedicarboxylic acid, dimethyl ester, manuf. of, by-products from
Benzenemethanol, .alpha.,.alpha.-dimethyl-
Benzenemethanol, 3-phenoxy-
Benzenesulfonic acid, 3-nitro-, sodium salt
Benzenesulfonic acid, 4-chloro-3,5-dinitro-, potassium salt
Benzenesulfonic acid, C10-16-alkyl derivs., compds. with triethanolamine
Benzenesulfonic acid, dimethyl-
Benzenesulfonyl chloride
1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide
Benzoic acid, 2-methyl-
2,4,6,8,3,5,7-Benzotetraoxatriplumbacycloundecin-3,5,7-triylidene, 1,9-dihydro-1,9-dioxo-
Benzothiazole, 2-[(chloromethyl)thio]-
Benzoyl chloride, 3,5-dichloro-

Category
1,2-Butadiene
Butanedioic acid, oxo-, diethyl ester, ion(1-), sodium
1-Butanol, sodium salt
2-Butenal
2-Butenediamide, (2E)-, N,N'-bis[2-(4,5-dihydro-2-nortall-oil alkyl-1H-imidazol-1-yl)ethyl] derivs.
2-Butenedioic acid (2E)-, di-C8-18-alkyl esters
2-Butenedioic acid (2Z)-, dioctyl ester
2-Butenenitrile, 2-methyl-, (2E)-
2-Butenenitrile, 2-methyl-, (2Z)-
Carbamic acid, monoammonium salt
Carbamodithioic acid, monoammonium salt
Carbonochloridothioic acid, S-(phenylmethyl) ester
Carbonodithioic acid, O-(1-methylethyl) ester, sodium salt
Carboxylic acids, di-, C4-11
Chromate(3-), bis[3-(hydroxy-.kappa.O)-4-[[2-(hydroxy-.kappa.O)-1-naphthalenyl]azo-.kappa.N1]-7-nitro-1-naphthalenesulfona
Coal, anthracite, calcined
Creosote
Cyclohexane, oxidized, aq. ext., sodium salt
Cyclohexane, oxidized, non-acidic by-products, distn. lights
1,3-Cyclopentadiene
Decane, 1-chloro-

Category
Decanoic acid, mixed esters with dipentaerythritol, octanoic acid and valeric acid
1-Decene, sulfurized
Distillates (coal tar)
Distillates (coal tar), heavy oils
Distillates (coal tar), upper
Distillates (petroleum), hydrofined lubricating-oil
Distillates, hydrocarbon resin prodn. higher boiling
Disulfides, alkylaryl dialkyl diaryl, petroleum refinery spent caustic oxidn. products
Disulfides, C5-12-alkyl
Ethane, 1,1,1-trimethoxy-
Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro-
Ethane, 1,1'-oxybis[2-chloro-
Ethane, 1,2-dichloro-, manuf. of, by-products from, distn. lights
1,2-Ethanediamine, N,N,N',N'-tetramethyl-
Ethanedioic acid, calcium salt (1:1)
1,2-Ethanediol, dinitrate
Ethanesulfonic acid, 2-[methyl[(9Z)-1-oxo-9-octadecenyl]amino]-, sodium salt
Ethanimidothioic acid, N-hydroxy-, methyl ester
Ethanol, 2-(2-butoxyethoxy)-, sodium salt
Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivs. residues

Category
Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine product tower residues
Ethanol, 2-[(4-aminophenyl)sulfonyl]-, hydrogen sulfate (ester)
Ethanol, 2-butoxy-, sodium salt
Ethene, hydrated, by-products from
Ethenesulfonic acid, sodium salt
Extract oils (coal), tar base
Extract residues (coal), tar oil alk.
Extract residues (coal), tar oil alk., naphthalene distn. residues
Extracts, coal tar oil alk.
Fats and Glyceridic oils, vegetable, reclaimed
Fatty acids, tall-oil, 2-(2-hydroxyethoxy)ethyl esters
Fatty acids, tall-oil, low-boiling, reaction products with ammonia-ethanolamine reaction by-products
Fatty acids, tall-oil, reaction products with diethylenetriamine, acetates
Fatty acids, tall-oil, sulfonated, sodium salts
Formic acid, compd. with 2,2',2[ethanol] (1:1)
2,5-Furandione, dihydro-3-(octenyl)-
Glycine, N-(carboxymethyl)-
Glycine, N-(carboxymethyl)-, disodium salt
Glycine, N-methyl-, monosodium salt
Glycine, N-phenyl-, monopotassium salt
Glycine, N-phenyl-, monosodium salt

Category
1-Hexacosanol
Hexadecane, 1-chloro-
1,4-Hexadiene
Hexanedioic acid, dihexyl ester
Hexanedioic acid, esters with high-boiling C6-10-alkene hydroformylation products
1,3-Hexanediol, 2-ethyl-
1,6-Hexanediol, distn. residues
2-Hexenal, 2-ethyl-
1H-Isoindole-1,3(2H)-dione, 3a,4,7,7a-tetrahydro-
Hydrocarbons, C12-20, catalytic alkylation by-products
Imidodicarbonic diamide, N,N',2-tris(6-isocyanatohexyl)-
1,3-Isobenzofurandione, 5-methyl-
Lard, oil, Me esters
Methanesulfonamide, N-[2-[(4-amino-3-methylphenyl)ethylamino]ethyl]-, sulfate (2:3)
Methanesulfonic acid, hydroxy-, monosodium salt
Methanesulfonyl chloride
Methanone, (2-hydroxy-4-methoxyphenyl)phenyl-
Naphtha (petroleum), clay-treated light straight-run
2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-, monosodium salt
1-Naphthalenesulfonic acid, 2-amino-

Category
Phenol, (1,1,3,3-tetramethylbutyl)-
Phenol, (1-methylethyl)-
Phenol, 2-(1,1-dimethylethyl)-4-methyl-
Phenol, 2,4-bis(1,1-dimethylpropyl)-6-[(2-nitrophenyl)azo]-
Phenol, 2,4-bis(1-methyl-1-phenylethyl)-6-[(2-nitrophenyl)azo]-
Phenol, 3-(diethylamino)-
Phenol, 4-methyl-2-nitro-
Phenol, isobutyleneated methylstyrenated
Phenol, methyl-, sodium salt
Phenol, nonyl derivs.
Phenol, styrenated
Phenols (petroleum)
Phosphoramidothioic acid, O,O-dimethyl ester
Phosphoric acid, (1,1-dimethylethyl)phenyl diphenyl ester
Phosphoric acid, mixed 3-bromo-2,2-dimethylpropyl and 2-bromoethyl and 2-chloroethyl esters
Phosphorochloridothioic acid, O,O-dimethyl ester
Phosphorochloridous acid, bis(4-nonylphenyl) ester
Phosphorodichloridic acid, ethyl ester
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts
Phosphorodithioic acid, O,O-dimethyl ester

Category
Phosphorodithioic acid, O,O-dimethyl ester, sodium salt
Phosphorous acid, 2-(1,1-dimethylethyl)-4-[1-[3-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-methylethyl]phenyl bis(4-nonylphenyl)
Phosphorous acid, isooctyl diphenyl ester
Piperazineethanol
Pitch, coal tar-petroleum
Propane, 2,2-dimethoxy-
Propanenitrile, 3-(dimethylamino)-
1-Propanesulfonic acid, 2-hydroxy-3-(2-propenyloxy)-, monosodium salt
Propanoic acid, 2-bromo-
Propanoic acid, 2-methyl-, 3-(benzoyloxy)-2,2,4-trimethylpentyl ester
2-Propenoic acid, 2-carboxyethyl ester
Pyridine, hydrochloride
4(1H)-Pyrimidinone, 6-methyl-2-(1-methylethyl)-
Solvent naphtha (coal)
Sulfonic acids, petroleum
Tannins
Tannins, reaction products with sodium bisulfite, sodium polysulfide and sodium sulfite
Tar oils, coal
Tar, coal, dried and oxidized
Tar, coal, high-temp.

Category
Tar, coal, high-temp., high-solids
Terpenes and Terpenoids, C10-30, distn. residues
1-Tetracosanol
Tetradecane, 1-chloro-
1,3,5,7-Tetrazocine, octahydro-1,3,5,7-tetranitro-
Thiazole, 4-methyl-
Thiourea
1,3,5-Triazine, hexahydro-1,3,5-trinitro-
1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris(6-isocyanatohexyl)-
1,3,5-Triazine-2,4-diamine, 6-chloro-N-(1,1-dimethylethyl)-N'-ethyl-
1,3,5-Triazine-2,4-diamine, 6-chloro-N,N'-bis(1-methylethyl)-
1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)-
Urea, (hydroxymethyl)-
Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl-
Urea, sulfate (1:1)
Urea, sulfate (2:1)

[53 FR 38645, Sept. 30, 1988]

Editorial Note: For FEDERAL REGISTER citations affecting § 716.120, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at www.govinfo.gov.

Effective Date Note: At 59 FR 14115, Mar. 25, 1994, in § 716.120 paragraph (d), the chemical substances under the category “propylene glycol ethers and esters” and all related dates, were stayed effective Mar. 25, 1994.

