

under the Emergency Planning and Community Right-to-Know Act (EPCRA) section 311, namely through a Material Safety Data Sheet (MSDS)? If so, identify all such schemes. Was the linkage claimed as confidential in any of these instances?

(ii) What harmful effect, if any, to your competitive position do you think would result from the identity of the site and the chemical substance being disclosed in connection with reporting under this subpart? How could a competitor use such information? Would the effects of disclosure be substantial? What is the causal relationship between the disclosure and the harmful effects?

(2) If any of the information contained in the answers to the questions listed in paragraph (c)(1) of this section is asserted to contain confidential business information, the submitter must clearly identify the information that is claimed confidential by marking the specific information on each page with a label such as “confidential business information,” “proprietary,” or “trade secret.”

(d) If no claim of confidentiality is indicated on the reporting form submitted to EPA under this subpart, or if confidentiality claim substantiation required under paragraphs (b) and (c) of this section is not submitted with the reporting form, EPA may make the information available to the public without further notice to the submitter.

[68 FR 890, Jan. 7, 2003, as amended at 69 FR 40791, July 7, 2004]

**§ 710.59 Availability of reporting form and instructions.**

(a) *Use the proper EPA form.* You must use the EPA form identified as “Form U” to submit written information in response to the requirements of this subpart. Instructions for obtaining copies of Form U are in paragraph (c) of this section.

(b) *Follow the reporting instructions.* You should follow the detailed instructions for completing and submitting an electronic or hard copy report. Instructions given in the EPA publication titled, “Instructions for Reporting for the 2006 Partial Updating of the TSCA Chemical Inventory Database,” are available as described in paragraph (c)

of this section. EPA encourages reporting sites subject to this part to submit the required information to EPA electronically.

(c) *Obtain the reporting package and copies of the form.* You can obtain the reporting form or software, reporting instructions, and other associated documents as follows:

(1) *By website.* Go to the EPA Inventory Update Reporting Internet home page at <http://www.epa.gov/oppt/iur> and follow the appropriate links. EPA encourages reporting sites subject to this subpart to visit this home page.

(2) *By phone.* Call the EPA TSCA Hotline at (202) 554-1404.

(3) *By e-mail.* Send an e-mail request for this information to the EPA TSCA Hotline at [TSCA-Hotline@epa.gov](mailto:TSCA-Hotline@epa.gov).

(4) *By mail.* Send a written request for this information to the following address: TSCA Hotline, Mail Code 7408M, ATTN: Inventory Update Reporting, Office of Pollution Prevention and Toxics, U.S. Environmental Protection Agency, 1200 Pennsylvania Ave., NW., Washington, DC 20460-0001.

[71 FR 52498, Sept. 6, 2006]

**PART 712—CHEMICAL INFORMATION RULES**

**Subpart A—General Provisions**

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AUTHORITY: 15 U.S.C. 2607(a).

SOURCE: 47 FR 26998, June 22, 1982, unless otherwise noted.

### Subpart A—General Provisions

#### § 712.1 Scope and compliance.

(a) This part establishes procedures for chemical manufacturers and processors to report production, use, and exposure-related information on listed chemical substances. Subpart A establishes requirements that apply to all reporting under this part. Subpart B covers manufacturers' and processors' reporting.

(b) Chemical substances, mixtures, and categories of substances or mixtures which have been recommended by the Interagency Testing Committee for testing consideration by the Agency but not designated for Agency response within 12 months, will be added to § 712.30 using the procedure specified in § 712.30(c) only to the extent that the total number of designated and recommended chemicals has not exceeded 50 in any 1 year. Additional recommended but not designated chemicals may be added after proposal, and consideration of public comment.

[47 FR 26998, June 22, 1982, as amended at 50 FR 34809, Aug. 28, 1985; 60 FR 31921, June 19, 1995]

#### § 712.3 Definitions.

The definitions in section 3 of TSCA, 15 U.S.C. 2602, apply for this part. In addition, the following definitions apply:

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

(b) *EPA* means the U.S. Environmental Protection Agency.

(c) *Import in bulk form* means to import a chemical substance (other than as part of a mixture or article) in any quantity, in cans, bottles, drums, barrels, packages, tanks, bags, or other containers used for purposes of transportation or containment, if the chemical substance has an end use or commercial purpose separate from the container.

(d) *Importer* means anyone who imports a chemical substance, including a chemical substance as part of a mixture or article, into the customs territory of the U.S. and includes the per-

son liable for the payment of any duties on the merchandise, or an authorized agent on his behalf. 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 withdraw merchandise in a bonded warehouse has been transferred in accordance with subpart C of 19 CFR part 144. For the purposes of this definition, the customs territory of the U.S. consists of the 50 states, Puerto Rico, and the District of Columbia.

(e) *Impurity* means a chemical substance unintentionally present with another chemical substance or mixture.

(f) *Intermediate* means any chemical substance that is consumed, in whole or in part, in chemical reactions used for the intentional manufacture of other chemical substances or mixtures, or that is intentionally present for the purpose of altering the rates of such chemical reactions. (See also paragraph (j) of this section.)

(g) *Known to or reasonably ascertainable by* means all information in a person's possession or control, plus all information that a reasonable person similarly situated might be expected to possess, control, or know, or could obtain without unreasonable burden.

(h) *Manufacture for commercial purposes* means to import, produce, or manufacture 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:

(1) For commercial distribution, including for test marketing.

(2) For use by the manufacturer, including use for product research and development, or as an intermediate. 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 coproducts that are separated from that other substance or

mixture, and impurities that remain in that substance or mixture. Byproducts and impurities 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 produced for a commercial purpose.

(i) *Mixture* means any combination of two or more chemical substances if the combination does not occur in nature and is not, in whole or in part, the result of a chemical reaction; except that *mixture* does include (1) any combination which occurs, in whole or in part, as a result of a chemical reaction if the combination could have been manufactured for commercial purposes without a chemical reaction at the time the chemical substances comprising the combination were combined, and if all of the chemical substances comprising the combination are included in the EPA, TSCA Chemical Substance Inventory after the effective date of the premanufacture notification requirement under 40 CFR part 720, and (2) hydrates of a chemical substance or hydrated ions formed by association of a chemical substance with water. The term *mixture* includes alloys, inorganic glasses, ceramics, frits, and cements, including Portland cement.

(j) *Non-isolated intermediate* means any intermediate that is not intentionally removed from the equipment in which it is manufactured, including the reaction vessel in which it is manufactured, equipment which is ancillary to the reaction vessel, and any equipment through which the substance passes during a continuous flow process, but not including tanks or other vessels in which the substance is stored after its manufacture. (See also paragraph (f) of this section.)

(k) *Owned or controlled by the parent company* means the parent owns or controls 50 percent or more of the other company's voting stock or other equity rights, or has the power to control the management and policies of the other company.

(l) *Person* means any natural person, 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.

(m) *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 or mixture containing impurities is processed for commercial purposes, then those impurities are also processed for commercial purposes.

(n) *Site* means a contiguous property unit. Property divided only by a public right-of-way shall be considered one site. There may be more than one manufacturing plant on a single site.

(o) *Test marketing* means distributing in commerce a limited amount of a chemical substance or mixture, or article containing such substance or mixture, to a defined number of potential customers, during a predetermined testing period, to explore market capability prior to broader distribution in commerce.

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

#### § 712.5 Method of identification of substances for reporting purposes.

(a) *Report on TSCA-regulable quantities*. Unless specifically otherwise required, respondents must report only about quantities of a chemical that is defined as a chemical substance under TSCA section 3(2).

(b) *Chemicals from natural sources*. A manufacturer of a chemical substance which is extracted from an ore, from oil, or from any other natural source must report only about the manufacturing steps for, and the uses of, that chemical, not about production of the natural source material or other crude precursors derived from the natural source material.

For example, persons who manufacture a chemical substance such as "sweetened naphtha, 64741-87-3," but do not refine the naphtha to produce "hexane, 110-54-3" would not report on hexane. Only the production of "hexane" as an isolated product must be reported—not previous production of more crude, complex substances such as naphtha

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from which hexane is extracted. Thus, persons who produce crude oil, ores, and other crude natural materials, but do not carry them through further manufacturing steps that produce a listed chemical have no reporting responsibilities under this Part. Note, however, that any method of extraction, refinement, or purification of a listed chemical substance is considered to be manufacturing for the purposes of this rule.

(c) *Chemical substances as marketed.* This part requires reporting about chemical substances as they are marketed or used in practice. The following preparations of a chemical substance must be reported as the substance itself, not as a mixture, since these preparations are regarded as the substance in practice.

(1) The chemical substance in aqueous solution.

(2) The chemical substance containing an additive (such as a stabilizer or other chemical) to maintain the integrity or physical form of the substance.

(3) The chemical substance in any grade of purity.

### §712.7 Report of readily obtainable information for subparts B and C.

TSCA section 8(a) authorizes EPA to require persons to report information that is known to or reasonably ascertainable by them. For purposes of subpart B, however, a lesser standard applies. Companies must report information that is readily obtainable by management and supervisory employees responsible for manufacturing, processing, distributing, technical services, and marketing. Extensive file searches are not required.

[47 FR 26998, June 22, 1982, as amended at 60 FR 31921, June 19, 1995]

### §712.15 Confidentiality.

(a) Any person submitting information under this part may assert business confidentiality claims for the information as described in the pertinent reporting form and its instructions. Any information covered by a claim will be disclosed by EPA only as provided in the procedures set forth at 40 CFR part 2.

(b) Persons must certify to the validity of a claim of confidentiality they make for information reported under

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this part, as specified on the reporting form.

(c) If no claim accompanies the information at the time it is submitted to EPA or if certification as to the claim is not made on the reporting form, EPA may place the information in an open file available to the public without further notice to the submitter.

## Subpart B—Manufacturers Reporting—Preliminary Assessment Information

### §712.20 Manufacturers and importers who must report.

Except as described in §712.25, at the time a chemical substance is listed in §712.3, the following persons must submit the “Manufacturer’s Report—Preliminary Assessment Information” (as described in §712.28) for each plant site at which they manufactured or imported the chemical substance during the reporting period specified in §712.30:

(a) Persons who manufactured one or more of the chemical substances listed in §712.30 for commercial purposes.

(b) Persons who imported in bulk form one or more of the chemical substances listed in §712.30 for commercial purposes.

### §712.25 Exempt manufacturers and importers.

(a) Persons who manufactured or imported the chemical substance during the reporting period, solely for purposes of scientific experimentation, analysis, or research, including research or analysis for product development, are not subject to reporting under §712.20.

(b) Persons who, during the reporting period, manufactured or imported fewer than 500 kilograms (1100 pounds) of the chemical substance at a single plant site are not subject to reporting for that site under §712.20.

(c) Persons who qualify as small manufacturers or importers in respect to a specific chemical substance listed in §712.30 are exempt. However, this exemption does not apply with respect to any chemical in §712.30 designated by an asterisk. A manufacturer is qualified as small and is exempt from submitting a report under this subpart for

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a chemical substance manufactured at a particular plant site if both of the following criteria are met:

(1) Total annual sales taken together of all sites owned or controlled by the foreign or domestic parent company were below \$30 million for the reporting period;

(2) Total production of the listed substance for the reporting period was below 45,400 kilograms (100,000 pounds) at the plant site.

(d) Persons are not subject to reporting under § 712.20 if they manufactured or imported the chemical substance during the reporting period only in the following forms:

(1) As a byproduct that was not used or sold or that was formed as described in 40 CFR 710.4(d) (3) through (7).

(2) As a non-isolated intermediate.

(3) As an impurity.

[47 FR 26998, June 22, 1982; 47 FR 28382, June 30, 1982]

### § 712.28 Form and instructions.

(a) Manufacturers and importers subject to this subpart must submit a single EPA Form No. 7710-35, "Manufacturer's Report—Preliminary Assessment Information," for each plant site manufacturing or importing a chemical substance listed in § 712.30.

(b) Reporting companies may submit their reports through individual plant sites or company headquarters as they choose. A separate form must be submitted for each plant site manufacturing the chemical substance.

(c) You must submit forms by one of the following methods:

(1) Mail, preferably certified, to the Document Control Office (DCO) (7407M), Office of Pollution Prevention and Toxics (OPPT), Environmental Protection Agency, 1200 Pennsylvania Ave., NW., Washington, DC 20460-0001, ATTN: 8(a) PAIR Reporting.

(2) Hand delivery to OPPT Document Control Office (DCO), EPA East, Rm. 6428, 1201 Constitution Ave., NW., Washington, DC, ATTN: 8(a) PAIR Reporting. The DCO is open from 8 a.m. to 4 p.m., Monday through Friday, excluding legal holidays. The telephone number for the DCO is (202)564-8930.

(d) Form 7710-35, Manufacturer's Report—Preliminary Assessment Information or PAIR form and instructions

may be obtained by telephoning or writing the Environmental Assistance Division. The telephone number and the address of the Environmental Assistance Division is: Phone Number (202) 554-1404, TDD (202) 554-0551. Address: Environmental Assistance Division (7406), Office of Pollution Prevention and Toxics, Environmental Protection Agency, 1200 Pennsylvania Ave., NW., Washington, DC 20460.

[47 FR 26998, June 22, 1982, as amended at 52 FR 20083, May 29, 1987; 53 FR 12523, Apr. 15, 1988; 60 FR 31921, June 19, 1995; 60 FR 34463, July 3, 1995; 71 FR 47126, Aug. 16, 2006]

### § 712.30 Chemical lists and reporting periods.

(a)(1) Persons subject to this subpart B must submit a Preliminary Assessment Information Manufacturer's Report for each chemical substance or mixture that is listed or designated in this section.

(2) Unless a respondent has already prepared a Manufacturer's Report in conformity with conditions set forth in paragraph (a)(3) of this section, the information in each Manufacturer's Report must cover the respondent's latest complete corporate fiscal year as of the effective date. The effective date will be 30 days after the FEDERAL REGISTER publishes a rule amendment making the substance or mixture subject to this subpart B.

(3) Persons subject to this subpart B need not comply with the requirements of paragraph (a)(2) of this section if they meet either one of the following conditions:

(i) The respondent has previously and voluntarily provided EPA with a Manufacturer's Report on a chemical substance or mixture subject to this subpart B, which contains data for a one-year period ending no more than three years prior to the effective date described in paragraph (a)(2) of this section. Respondents meeting this condition must notify EPA by letter of their desire to have the voluntary submission used in lieu of a current data submission and must verify the completeness and current accuracy of the voluntarily submitted data. Such letters must contain the following language: "I hereby certify that, to the best of

my knowledge and belief, all information entered on this form is complete and accurate. I agree to permit access to, and the copying of records by, a duly authorized representative of the EPA Administrator, in accordance with the Toxic Substances Control Act, to document any information reported on the form." Notification letters must be submitted prior to the reporting deadline.

(ii) The respondent has previously submitted a Manufacturer's Report on a chemical substance or mixture subject to this subpart B to the Interagency Testing Committee, but not to EPA, and that Report contained data for a one-year period ending less than three years prior to the effective date described in paragraph (a)(2) of this section. Respondents meeting this condition must submit a copy of the Manufacturer's Report to EPA, and must submit an accompanying letter notifying EPA of the respondent's intent that the submission be used in lieu of a current Manufacturer's Report. The notification letter must verify the completeness and current accuracy of the voluntarily submitted data. Such a letter must contain the following language: "I hereby certify that, to the best of my knowledge and belief, all information entered on this form is complete and accurate. I agree to permit access to, and the copying of records by, a duly authorized representative of the EPA Administrator, in accordance with the Toxic Substances Control Act, to document any information reported on the form." The submission must be made prior to the reporting deadline.

(b) Except as provided in paragraph (c) of this section, chemical substances and designated mixtures will be added after a notice of proposed amendment of this subpart is published in the FEDERAL REGISTER. There will be a 30 day public comment period on each notice; after consideration of the comments, a final amendment will identify the substances and mixtures added.

(c)(1) Chemical substances, mixtures, and categories of substances or mixtures that have been added by the Interagency Testing Committee, established under section 4(e) of TSCA, to the section 4(e) Priority List, for testing consideration by the Agency, will

be added to this section 30 days after EPA issues for publication in the FEDERAL REGISTER a rule amendment listing these chemical substances, mixtures and categories. A Preliminary Assessment Information—Manufacturer's Report must be submitted for each chemical substance and mixture within 60 days after the effective date of the listing. At the discretion of the Assistant Administrator for Prevention, Pesticides and Toxic Substances, a listed substance, mixture or category may be withdrawn, for good cause, from the rule's reporting requirements prior to the effective date. Any information submitted showing why a substance, mixture or category should be removed from the rule must be received by EPA within 14 days after the date of publication of the notice under this paragraph. If a substance, mixture or category is removed, a FEDERAL REGISTER notice announcing this decision will be published no later than the effective date of the amendment.

(2) You must submit information by one of the following methods:

(i) Mail, preferably certified, to the Document Control Office (DCO) (7407M), Office of Pollution Prevention and Toxics (OPPT), Environmental Protection Agency, 1200 Pennsylvania Ave., NW., Washington, DC 20460-0001, ATTN: 8(a) Auto-ITC.

(ii) Hand delivery to OPPT Document Control Office (DCO), EPA East, Rm. 6428, 1201 Constitution Ave., NW., Washington, DC, ATTN: 8(a) Auto-ITC. Reporting. The DCO is open from 8 a.m. to 4 p.m., Monday through Friday, excluding legal holidays. The telephone number for the DCO is (202)564-8930.

(d) Manufacturers and importers of the substances listed below must submit a Preliminary Assessment Information Manufacturer's Report for each site at which they manufacture or import each substance by the reporting date shown in the table below. The substances are listed in Chemical Abstracts Service Registry Number order. Typically EPA lists the trivial or common name first, then, following the symbol "- -", EPA lists the substance by its TSCA Chemical Substance Inventory name. Whenever EPA lists a single name, the name may be either

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the TSCA Chemical Substance Inventory name, a trivial name, or a common name. Generally, when a single name is listed, it is the TSCA Chemical Substances Inventory name.

CAS No.	Substance	Effective date	Reporting date
78-10-4	Ethyl silicate .....	8/23/00	10/23/00
90-30-2	N-Phenyl-1-naphthylamine .....	9/30/91	11/27/91
100-40-3	4-Vinylcyclohexene .....	1/11/90	3/12/90
108-95-5	Thiophenol .....	1/26/94	3/28/94
109-87-5	Methylal .....	8/23/00	10/23/00
118-79-6	2,4,6-tribromophenol .....	1/11/90	3/12/90
133-49-3	Pentachlorothiophenol .....	8/27/01	10/24/01
136-35-6	1-Triazene, 1,3-diphenyl- .....	7/11/03	9/9/03
143-33-9	Sodium cyanide .....	10/29/90	12/27/90
496-46-8	Glycoluril .....	8/23/00	10/23/00
632-79-1	Tetrabromophthalic anhydride .....	1/11/90	3/12/90
637-92-3	Ethyl tert-butyl ether .....	12/28/94	2/27/95
994-05-8	Tert-amyl methyl ether .....	12/28/94	2/27/95
1163-19-5	Decabromodiphenyl ether .....	1/11/90	3/12/90
1198-55-6	Tetrachloropyrocatechol .....	8/27/01	10/24/01
1806-24-2	p-toluidine, 5-chloro-.alpha.,.alpha.,.alpha.-trifluoro-2-nitro-N-phenyl- .....	8/27/01	10/24/01
3194-55-6	Hexabromocyclododecane .....	1/11/90	3/12/90
3278-89-5	Benzene, 1,3,5-tribromo-2-(2-propenyloxy)- .....	7/11/03	9/9/03
3296-90-0	Dibromoneopentyl glycol .....	1/11/90	3/12/90
12185-10-3	White phosphorus .....	1/26/94	3/28/94
16691-43-3	3-Amino-5-mercapto-1,2,4-triazole .....	8/23/00	10/23/00
29091-20-1	Benzenamine, 3-chloro-2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl)- .....	7/11/03	9/9/03
32534-81-9	Pentabromodiphenyl ether .....	1/11/90	3/12/90
32536-52-0	Octabromodiphenyl ether .....	1/11/90	3/12/90
32588-76-4	Ethylene Bis-(tetrabromophthalimide) .....	1/11/90	3/12/90
37853-59-1	1,2-Bis(tribromophenoxy) ethane .....	1/11/90	3/12/90
41291-34-3	Ethylene(5,6-dibromonorbornane-2,3-dicarboximide) .....	1/11/90	3/12/90
52907-07-0	Ethylene bis(5,6-dibromonorbornane-2,3-dicarboximide) .....	1/26/94	3/28/94
57137-10-7	Tribrominated polystyrene .....	1/11/90	3/12/90
61262-53-1	Ethylene bis(pentabromophenoxide) .....	1/11/90	3/12/90
68928-76-7	Stannane, dimethylbis[(1-oxoneodecyl)oxy]- .....	7/11/03	9/9/03
88185-22-2	Benzoic acid, 3-[2-chloro-4-(trifluoromethyl)phenoxy]-, 2-ethoxy-1-methyl-2-oxoethyl ester.	8/27/01	10/24/01

(e) Manufacturers and importers of the substances listed below by category must submit a Preliminary Assessment Information Manufacturers Report for each site at which they manufacture or import each substance by the reporting

date shown in the table below. The categories are listed in alphabetic order with the chemical substances within each category listed by ascending numerical CAS number.

CAS No.	Substance	Effective date	Reporting date
Aldehydes			
66-77-3	1-Naphthalenecarboxaldehyde .....	9/30/91	11/27/91
75-07-0	Acetaldehyde .....	9/30/91	11/27/91
75-87-6	Acetaldehyde, trichloro- .....	9/30/91	11/27/91
78-84-2	Propanal, 2-methyl- .....	9/30/91	11/27/91
78-85-3	2-Propenal, 2-methyl- .....	9/30/91	11/27/91
80-54-6	Benzenepropanal,4-(1,1-dimethylethyl)-.alpha.-methyl- .....	9/30/91	11/27/91
84-83-3	Acetaldehyde, (1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene). .....		
89-98-5	Benzaldehyde, 2-chloro- .....	9/30/91	11/27/91
90-02-8	Benzaldehyde, 2-hydroxy- .....	9/30/91	11/27/91
93-02-7	Benzaldehyde, 2,5-dimethoxy- .....	9/30/91	11/27/91
93-53-8	Benzeneacetaldehyde, .alpha.-methyl- .....	9/30/91	11/27/91
95-01-2	Benzaldehyde, 2,4-dihydroxy- .....	9/30/91	11/27/91
97-51-8	Benzaldehyde, 2-hydroxy-5-nitro- .....	9/30/91	11/27/91
98-01-1	2-Furancarboxaldehyde .....	9/30/91	11/27/91
98-03-3	2-Thiophenecarboxaldehyde .....	9/30/91	11/27/91
100-10-7	Benzaldehyde, 4-(dimethylamino)- .....	9/30/91	11/27/91
100-50-5	3-Cyclohexene-1-carboxaldehyde .....	9/30/91	11/27/91
100-52-7	Benzaldehyde .....	9/30/91	11/27/91
101-39-3	2-Propenal, 2-methyl-3-phenyl- .....	9/30/91	11/27/91

CAS No.	Substance	Effective date	Reporting date
Aldehydes			
101-86-0	Octanal, 2-(phenylmethylene)- .....	9/30/91	11/27/91
103-95-7	Benzenepropional, alpha-methyl-4-(1-methylethyl)- .....	9/30/91	11/27/91
104-09-6	Benzeneacetaldehyde, 4-methyl- .....	9/30/91	11/27/91
104-55-2	2-Propenal, 3-phenyl- .....	9/30/91	11/27/91
104-87-0	Benzaldehyde, 4-methyl- .....	9/30/91	11/27/91
104-88-1	Benzaldehyde, 4-chloro- .....	9/30/91	11/27/91
106-23-0	6-Octenal, 3,7-dimethyl- .....	9/30/91	11/27/91
106-26-3	2,6-Octadienal, 3,7-dimethyl-, (Z)- .....	9/30/91	11/27/91
106-72-9	5-Heptenal, 2,6-dimethyl- .....	9/30/91	11/27/91
107-02-8	2-Propenal .....	9/30/91	11/27/91
107-20-0	Acetaldehyde, chloro- .....	9/30/91	11/27/91
107-22-2	Ethanedial .....	9/30/91	11/27/91
107-75-5	Octanal, 7-hydroxy-3,7-dimethyl- .....	9/30/91	11/27/91
110-41-8	Undecanal, 2-methyl- .....	9/30/91	11/27/91
110-62-3	Pentanal .....	9/30/91	11/27/91
111-30-8	Pentanedial .....	9/30/91	11/27/91
111-71-7	Heptanal .....	9/30/91	11/27/91
112-31-2	Decanal .....	9/30/91	11/27/91
112-44-7	Undecanal .....	9/30/91	11/27/91
112-45-8	10-Undecenal .....	9/30/91	11/27/91
112-54-9	Dodecanal .....	9/30/91	11/27/91
120-14-9	Benzaldehyde, 3,4-dimethoxy- .....	9/30/91	11/27/91
120-21-8	Benzaldehyde, 4-(diethylamino)- .....	9/30/91	11/27/91
120-57-0	1,3-Benzodioxole-5-carboxaldehyde .....	9/30/91	11/27/91
121-32-4	Benzaldehyde, 3-ethoxy-4-hydroxy- .....	9/30/91	11/27/91
121-33-5	Benzaldehyde, 4-hydroxy-3-methoxy- .....	9/30/91	11/27/91
122-40-7	Heptanal, 2-(phenylmethylene)- .....	9/30/91	11/27/91
122-78-1	Benzeneacetaldehyde .....	9/30/91	11/27/91
123-05-7	Hexanal, 2-ethyl- .....	9/30/91	11/27/91
123-08-0	Benzaldehyde, 4-hydroxy- .....	9/30/91	11/27/91
123-11-5	Benzaldehyde, 4-methoxy- .....	9/30/91	11/27/91
123-38-6	Propanal .....	9/30/91	11/27/91
124-13-0	Octanal .....	9/30/91	11/27/91
124-19-6	Nonanal .....	9/30/91	11/27/91
126-15-8	4a(4H)-Dibenzofurancarboxaldehyde, 1,5a,6,9,9a,9b-hexahydro- .....	9/30/91	11/27/91
135-02-4	Benzaldehyde, 2-methoxy- .....	9/30/91	11/27/91
141-27-5	2,6-Octadienal, 3,7-dimethyl-, (E)- .....	9/30/91	11/27/91
143-14-6	9-Undecenal .....	9/30/91	11/27/91
455-19-6	Benzaldehyde, 4-(trifluoromethyl)- .....	9/30/91	11/27/91
505-57-7	02-Hexenal .....	9/30/91	11/27/91
552-89-6	Benzaldehyde, 2-nitro- .....	9/30/91	11/27/91
590-86-3	Butanal, 3-methyl- .....	9/30/91	11/27/91
597-31-9	Propanal, 3-hydroxy-2,2-dimethyl- .....	9/30/91	11/27/91
939-97-9	Benzaldehyde, 4-(1,1-dimethylethyl)- .....	9/30/91	11/27/91
1121-60-4	2-Pyridinecarboxaldehyde .....	9/30/91	11/27/91
1200-14-2	Benzaldehyde, 4-butyl .....	9/30/91	11/27/91
1331-92-6	2-Propenal, 3-phenyl-, monopentyl deriv. ....	9/30/91	11/27/91
1334-78-7	Benzaldehyde, methyl- .....	9/30/91	11/27/91
1423-46-7	3-Cyclohexene-1-carboxaldehyde, 2,4,6-trimethyl- .....	9/30/91	11/27/91
1504-74-1	2-Propenal, 3-(2-methoxyphenyl)- .....	9/30/91	11/27/91
2591-86-8	1-Piperidinecarboxaldehyde .....	9/30/91	11/27/91
3132-99-8	Benzaldehyde, 3-bromo- .....	9/30/91	11/27/91
3268-49-3	Propanal, 3-(methylthio)- .....	9/30/91	11/27/91
3613-30-7	Octanal, 7-methoxy-3,7-dimethyl- .....	9/30/91	11/27/91
4501-58-0	3-Cyclopentene-1-acetaldehyde, 2,2,3-trimethyl- .....	9/30/91	11/27/91
5435-64-3	Hexanal, 3,5,5-trimethyl- .....	9/30/91	11/27/91
5780-07-4	1,3-Benzodioxole-5-carboxaldehyde, 7-methoxy- .....	9/30/91	11/27/91
5949-05-3	6-Octenal, 3,7-dimethyl-, (S)- .....	9/30/91	11/27/91
5988-91-0	Octanal, 3,7-dimethyl- .....	9/30/91	11/27/91
10031-82-0	Benzaldehyde, 4-ethoxy- .....	9/30/91	11/27/91
13586-68-0	2-Propenal, 3- 4-(1,1-dimethylethyl)phenyl-2-methyl- .....	9/30/91	11/27/91
17754-90-4	Benzaldehyde, 4-(diethylamino)-2-hydroxy- .....	9/30/91	11/27/91
26266-68-2	Hexenal, 2-ethyl- .....	9/30/91	11/27/91
27939-60-2	3-Cyclohexene-1-carboxaldehyde, dimethyl- .....	9/30/91	11/27/91
28602-27-9	Benzaldehyde, (dimethylamino)- .....	9/30/91	11/27/91
31906-04-4	3-Cyclohexene-1-carboxaldehyde, 4-(4-hydroxy-4-methylpentyl)- .....	9/30/91	11/27/91
37677-14-8	3-Cyclohexene-1-carboxaldehyde, 4-(4-methyl-3-pentenyl)- .....	9/30/91	11/27/91
39515-51-0	Benzaldehyde, 3-phenoxy- .....	9/30/91	11/27/91
52475-86-2	3-Cyclohexene-1-carboxaldehyde, 1-methyl-4-(4-methyl-3-pentenyl)- .....	9/30/91	11/27/91
66327-54-6	3-Cyclohexene-1-carboxaldehyde, 1-methyl-4-(4-methylpentyl)- .....	9/30/91	11/27/91



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Aldehydes			
Alkyl-, Chloro-, and Hydroxymethyl Diaryl Ethers			
3061-36-7	1,4-Diphenoxybenzene	04/12/93	06/10/93
3586-14-9	Benzene, 1-methyl-3-phenoxy-	04/12/93	06/10/93
13826-35-2	Benzenemethanol, 3-phenoxy-,	04/12/93	06/10/93
28299-41-4	Benzene, 1,1'-oxybis[methyl-	04/12/93	06/10/93
28984-89-6	1,1'-Biphenyl, phenoxy-	04/12/93	06/10/93
42874-96-4	2-Chloro-1-(3-methylphenoxy)-4-(trifluoromethyl)benzene	04/12/93	06/10/93
50594-77-9	Phenol, 3-[2-chloro-4-(trifluoromethyl)phenoxy]-, acetate	04/12/93	06/10/93
50789-44-1	Benzenemethanol, 3-phenoxy-, acetate	04/12/93	06/10/93
51632-16-7	Benzene, 1-(bromomethyl)-3-phenoxy-	04/12/93	06/10/93
61702-88-3	Benzene, 1,1'-oxybis[(1,1,3,3-tetramethylbutyl)-	04/12/93	06/10/93
63734-62-3	Benzoic acid, 3-[2-chloro-4-(trifluoromethyl)phenoxy]-,	04/12/93	06/10/93
69834-19-1	Benzene, 1,1'-oxybis[dodecyl-	04/12/93	06/10/93
72252-48-3	Benzoic acid, 3-[2-chloro-4-(trifluoromethyl)phenoxy]-, potassium salt	04/12/93	06/10/93
Alkylphenols, Alkylphenol ethoxylates, and Polyalkylphenols			
80-46-6	4-tert-Pentylphenol	3/29/96	5/29/96
88-18-6	2-tert-Butylphenol	3/29/96	5/29/96
94-06-4	4-(1-Methylbutyl)phenol	3/29/96	5/29/96
98-54-4	4-tert-Butylphenol	3/29/96	5/29/96
99-71-8	4-sec-Butylphenol	3/29/96	5/29/96
104-40-5	4-Nonylphenol	3/29/96	5/29/96
104-43-8	4-Dodecylphenol	3/29/96	5/29/96
136-81-2	Phenol, 2-pentyl-	8/4/00	10/3/00
140-66-9	Phenol, 4-(1,1,3,3-tetramethylbutyl)-	8/4/00	10/3/00
949-13-3	2-Octylphenol	3/29/96	5/29/96
1300-16-9	Nonylphenol (mixed isomers)	3/29/96	5/29/96
1322-69-6	(1,1,3,3-Tetramethylbutyl)phenol (mixed isomers)	3/29/96	5/29/96
1331-57-3	Dodecylphenol (mixed isomers)	3/29/96	5/29/96
1638-22-8	4-n-Butylphenol	3/29/96	5/29/96
1806-26-4	4-Octylphenol	3/29/96	5/29/96
1987-50-4	Phenol, 4-heptyl-	8/4/00	10/3/00
2315-66-4	Decaethylene glycol 4-isooctylphenyl ether	3/29/96	5/29/96
2446-69-7	Phenol, 4-hexyl-	8/4/00	10/3/00
2497-58-7	Hexaethylene glycol 4-isooctylphenyl ether	3/29/96	5/29/96
2589-78-8	Phenol, 4-hexadecyl-	8/4/00	10/3/00
3180-09-4	2-Butylphenol	3/29/96	5/29/96
3279-27-4	Phenol, 2-(1,1-dimethylpropyl)-	8/4/00	10/3/00
3884-95-5	2-(1,1,3,3-Tetramethylbutyl)phenol	3/29/96	5/29/96
9002-93-1	Polyethylene glycol 4-(tert-octyl)phenyl ether	3/29/96	5/29/96
9004-87-9	Poly(oxy-1,2-ethanediyl), $\alpha$ -(isooctylphenyl)- $\omega$ -hydroxy-	8/4/00	10/3/00
9014-92-0	Poly(oxy-1,2-ethanediyl), $\alpha$ -(dodecylphenyl)- $\omega$ -hydroxy-	8/4/00	10/3/00
9036-19-5	Polyethylene glycol mono(octyl)phenyl ether	3/29/96	5/29/96
9063-89-2	Poly(oxy-1,2-ethanediyl), $\alpha$ -(octylphenyl)- $\omega$ -hydroxy-	8/4/00	10/3/00
11066-49-2	Isononylphenol (mixed isomers)	3/29/96	5/29/96
14938-35-3	4-Pentylphenol	3/29/96	5/29/96
17404-66-9	4-(1-Methyloctyl)phenol	3/29/96	5/29/96
25154-52-3	Nonylphenol (mixed isomers)	3/29/96	5/29/96
25401-86-9	Phenol, 2-hexadecyl-	8/4/00	10/3/00
25735-67-5	Phenol, 4-sec-pentyl-	8/4/00	10/3/00
26401-47-8	Poly(oxy-1,2-ethanediyl), $\alpha$ -(4-dodecylphenyl)- $\omega$ -hydroxy-	8/4/00	10/3/00
26401-74-1	Phenol, 2-sec-pentyl-	8/4/00	10/3/00
27157-66-0	Phenol, decyl-	8/4/00	10/3/00
27178-34-3	tert-Butylphenol (mixed isomers)	3/29/96	5/29/96
27193-28-8	(1,1,3,3-Tetramethylbutyl)phenol (mixed isomers)	3/29/96	5/29/96
27193-86-8	Dodecylphenol (mixed isomers)	3/29/96	5/29/96
27985-70-2	(1-Methylheptyl)phenol (mixed isomers)	3/29/96	5/29/96
29932-96-5	(1,1,3,3-Tetramethylbutyl)phenol (mixed isomers)	3/29/96	5/29/96
30105-54-5	(1,1,3,3-Tetramethylbutyl)phenol (mixed isomers)	3/29/96	5/29/96
31195-95-6	Isobutylphenol (mixed isomers)	3/29/96	5/29/96
54932-78-4	4-(2,2,3,3-Tetramethylbutyl)phenol	3/29/96	5/29/96
59911-95-4	Poly(oxy-1,2-ethanediyl), $\alpha$ -(4-hexadecylphenyl)- $\omega$ -hydroxy-	8/4/00	10/3/00
61723-87-3	Poly(oxy-1,2-ethanediyl), $\alpha$ -(tridecylphenyl)- $\omega$ -hydroxy-	8/4/00	10/3/00
62744-41-6	(1,1,3,3-Tetramethylbutyl)phenol (mixed isomers)	3/29/96	5/29/96
68081-86-7	Phenol, nonyl derivs.	8/4/00	10/3/00
68784-24-7	Phenol, C18-30-alkyl derivs.	8/4/00	10/3/00
68891-67-8	Phenol, polypropene derivs.	8/4/00	10/3/00
68908-55-4	Phenol, polybutene derivs.	8/4/00	10/3/00
68954-70-1	Phenol, polyethyl derivs.	8/4/00	10/3/00

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Alkylphenols, Alkylphenol ethoxylates, and Polyalkylphenols			
68987–90–6	Poly(oxy-1,2-ethanediyl), $\alpha$ -(octylphenyl)- $\omega$ -hydroxy-, branched .....	3/29/96	5/29/96
70682–80–3	Phenol, tetradecyl- .....	8/4/00	10/3/00
71902–25–5	Phenol, octenylated .....	8/4/00	10/3/00
72624–02–3	Phenol, heptyl derivs. ....	8/4/00	10/3/00
74499–35–7	Phenol, (tetrapropenyl) derivs. ....	8/4/00	10/3/00
84605–25–4	Phenol, 1-methylhexyl derivs. ....	8/4/00	10/3/00
84852–15–3	Branched 4-nonylphenol (mixed isomers) .....	3/29/96	5/29/96
91672–41–2	Phenol, 2-nonyl-, branched .....	8/4/00	10/3/00
112375–88–9	Phenol, polyisobutylene derivs. ....	8/4/00	10/3/00
112375–89–0	Phenol, poly(2,4,4-trimethylpentene) derivs .....	8/4/00	10/3/00
Alkyl phosphates			
78–40–0	Phosphoric acid, triethyl ester .....	10/29/90	12/27/90
78–42–2	Phosphoric acid, tris(2-ethylhexyl)ester .....	10/29/90	12/27/90
78–51–3	Ethanol, 2-butoxy-, phosphate (3:1) .....	10/29/90	12/27/90
107–66–4	Phosphoric acid, dibutyl ester .....	10/29/90	12/27/90
126–71–6	Phosphoric acid, tris(2-methylpropyl) ester .....	10/29/90	12/27/90
126–73–8	Phosphoric acid tributyl ester .....	10/29/90	12/27/90
298–07–7	Phosphoric acid, bis(2-ethylhexyl)ester .....	10/29/90	12/27/90
812–00–0	Phosphoric acid, monomethyl ester .....	10/29/90	12/27/90
1070–03–7	Phosphoric acid, mono(2-ethylhexyl)ester .....	10/29/90	12/27/90
1498–51–7	Phosphorodichloridic acid, ethylester .....	10/29/90	12/27/90
1623–15–0	Phosphoric acid, monobutyl ester .....	10/29/90	12/27/90
1623–24–1	Phosphoric acid, mono(1-methylethyl)ester .....	10/29/90	12/27/90
2958–09–0	Phosphoric acid, monoctadecyl ester .....	10/29/90	12/27/90
3900–04–7	Phosphoric acid, monohexyl ester .....	10/29/90	12/27/90
3991–73–9	Phosphoric acid, monoocetyl ester .....	10/29/90	12/27/90
7057–92–3	Phosphoric acid, didodecyl ester .....	10/29/90	12/27/90
7332–46–9	Ethanol, 2-(2-butoxyethoxy)-, phosphate (3:1) .....	10/29/90	12/27/90
12645–31–7	Phosphoric acid, 2-ethylhexyl ester .....	10/29/90	12/27/90
12751–23–4	Phosphoric acid, dodecyl ester .....	10/29/90	12/27/90
27215–10–7	Phosphoric acid, diisooctyl ester .....	10/29/90	12/27/90
Brominated flame retardants			
87–10–5	Benzamide, 3,5-dibromo-N-(4-bromophenyl)-2-hydroxy- .....	10/29/90	12/27/90
87–83–2	Benzene, pentabromomethyl- .....	10/29/90	12/27/90
87–84–3	Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro- .....	10/29/90	12/27/90
96–13–9	1-Propanol, 2,3-dibromo- .....	10/29/90	12/27/90
593–60–2	Ethene, bromo- .....	10/29/90	12/27/90
615–58–7	Phenol, 2,4-dibromo- .....	10/29/90	12/27/90
4162–45–2	Ethanol, 2,2'-((1-methylethylidene)bis((2,6-dibromo-4,1-phenylene)oxy))bis- .....	10/29/90	12/27/90
25327–89–3	Benzene, 1,1'-(1-methylethylidene)bis(3,5-dibromo-4-(2-propenyloxy)- .....	10/29/90	12/27/90
30554–72–4	Cyclohexane, tetrabromodichloro- .....	10/29/90	12/27/90
30554–73–5	Cyclohexane, tribromotrichloro- .....	10/29/90	12/27/90
36483–57–5	1-Propanol, 2,2-dimethyl-, tribromo deriv. ....	10/29/90	12/27/90
55205–38–4	2-Propenoic acid, (1-methylethylidene)bis(2,6-dibromo-4,1-phenylene) ester .....	10/29/90	12/27/90
68955–41–9	Alkanes, C10-18, bromochloro- .....	10/29/90	12/27/90
69882–11–7	Phenol, 2,4(or 2,6)-dibromo-, homopolymer .....	10/29/90	12/27/90
88497–56–7	Benzene, ethenyl-, homopolymer, brominated .....	10/29/90	12/27/90
Chloralkyl phosphates			
34621–99–3	1,2-Ethanediyttetrakis(2-chloro-1-methylethylene) phosphate .....	6/14/93	8/12/93
38051–10–4	2,2-Bis(chloromethyl)-1,3-propanediyttetrakis(2-chloroethyl) phosphate .....	6/14/93	8/12/93
53461–82–8	Oxydi-2,1-ethanediyttetrakis(2-chloroethyl) phosphate .....	6/14/93	8/12/93
76649–15–5	2-Chloro-1-methylethylbis(2-chloropropyl) phosphate.		
Cyanoacrylates			
137–05–3	2-Propenoic acid, 2-cyano-, methyl ester .....	1/26/94	3/28/94
1069–55–2	2-Propenoic acid, 2-cyano-, isobutyl ester .....	1/26/94	3/28/94
6197–30–4	2-Propenoic acid, 2-cyano-3,3-diphenyl-, 2-ethylhexyl ester .....	1/26/94	3/28/94
6606–65–1	2-Propenoic acid, 2-cyano-, butyl ester .....	1/26/94	3/28/94
7085–85–0	2-Propenoic acid, 2-cyano-, ethyl ester .....	1/26/94	3/28/94
7324–02–9	2-Propenoic acid, 2-cyano-, 2-propenyl ester .....	1/26/94	3/28/94
10586–17–1	2-Propenoic acid, 2-cyano-, 1-methylethyl ester .....	1/26/94	3/28/94
21982–43–4	2-Propenoic acid, 2-cyano-, ethoxyethyl ester .....	1/26/94	3/28/94
23023–91–8	2-Propenoic acid, 2-cyano-, 2,2,2-trifluoromethyl ester .....	1/26/94	3/28/94
27816–23–5	2-Propenoic acid, 2-cyano-, 2-methoxyethyl ester .....	1/26/94	3/28/94

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Cyanoacrylates			
64992-16-1	Ethanaminium, 2-[[2-cyano-3-[4-(diethylamino)phenyl]-1-oxo-2-propenyl]oxy]-N,N,N-trimethyl-, chloride.	1/26/94	3/28/94
Indium Chemicals			
923-34-2	Triethylindium .....	8/27/01	10/24/01
1303-11-3	Indium arsenide .....	8/27/01	10/24/01
1312-41-0	Indium antimonide .....	8/27/01	10/24/01
1312-43-2	Indium (III) oxide .....	8/27/01	10/24/01
1312-45-4	Indium (III) telluride .....	8/27/01	10/24/01
4194-69-8	Indium (III) citrate .....	8/27/01	10/24/01
7440-74-6	Indium .....	8/27/01	10/24/01
7783-52-0	Indium (III) fluoride .....	8/27/01	10/24/01
10025-82-8	Indium (III) chloride .....	8/27/01	10/24/01
12018-95-0	Copper indium diselenide .....	8/27/01	10/24/01
12030-14-7	Indium (II) sulfide .....	8/27/01	10/24/01
12030-24-9	Indium (III) sulfide .....	8/27/01	10/24/01
12056-07-4	Indium selenide .....	8/27/01	10/24/01
12672-70-7	Indium chloride .....	8/27/01	10/24/01
12672-71-8	Indium oxide .....	8/27/01	10/24/01
13464-82-9	Indium (III) sulfate .....	8/27/01	10/24/01
13465-09-3	Indium (III) bromide .....	8/27/01	10/24/01
13465-10-6	Indium (I) chloride .....	8/27/01	10/24/01
13510-35-5	Indium (III) iodide .....	8/27/01	10/24/01
13709-93-8	Indium (III) borate .....	8/27/01	10/24/01
13770-61-1	Indium (III) nitrate .....	8/27/01	10/24/01
13966-94-4	Indium (I) iodide .....	8/27/01	10/24/01
14166-78-0	Indium (III) fluoride .....	8/27/01	10/24/01
14280-53-6	Indium (I) bromide .....	8/27/01	10/24/01
14405-45-9	Indium tris(acetylacetonate) .....	8/27/01	10/24/01
20661-21-6	Indium (III) hydroxide .....	8/27/01	10/24/01
22398-80-7	Indium (I) phosphide .....	8/27/01	10/24/01
25114-58-3	Indium (III) acetate .....	8/27/01	10/24/01
25617-98-5	Indium nitride .....	8/27/01	10/24/01
27765-48-6	Indium (III) tetrafluoroborate .....	8/27/01	10/24/01
50926-11-9	Indium tin oxide .....	8/27/01	10/24/01
55326-87-9	Indium hydroxide .....	8/27/01	10/24/01
66027-93-8	Indium (III) sulfamate .....	8/27/01	10/24/01
66027-94-9	Hydroxybis(trifluoroacetato-O)indium .....	8/27/01	10/24/01
67816-06-2	Indium (III) 2-ethylhexanoate .....	8/27/01	10/24/01
68310-35-0	Indium (III) neodecanoate .....	8/27/01	10/24/01
71243-84-0	Indium tin oxide (In <sub>1.69</sub> Sn <sub>0.1502</sub> O <sub>2.85</sub> ) .....	8/27/01	10/24/01
IRIS Chemicals			
51-28-5	2,4 Dinitrophenol .....	9/30/91	11/27/91
95-65-8	3,4 Dinethylphenol .....	9/30/91	11/27/91
Isocyanates			
91-97-4	1,1'-Biphenyl, 4,4'-diisocyanato-3,3'-dimethyl- .....	10/29/90	12/27/90
100-28-7	Benzene, 1-isocyanato-4-nitro- .....	10/29/90	12/27/90
101-68-8	Benzene, 1,1'-methylenebis(4-isocyanato- .....	10/29/90	12/27/90
102-36-3	Benzene, 1,2-dichloro-4-isocyanato- .....	10/29/90	12/27/90
103-71-9	Benzene, isocyanato- .....	10/29/90	12/27/90
104-12-1	Benzene, 1-chloro-4-isocyanato- .....	10/29/90	12/27/90
104-49-4	Benzene, 1,4-diisocyanato- .....	10/29/90	12/27/90
109-90-0	Ethane, isocyanato- .....	10/29/90	12/27/90
110-78-1	Propane, 1-isocyanato- .....	10/29/90	12/27/90
111-36-4	Butane, 1-isocyanato- .....	10/29/90	12/27/90
112-96-9	Octadecane, 1-isocyanato- .....	10/29/90	12/27/90
123-61-5	Benzene, 1,3-diisocyanato- .....	10/29/90	12/27/90
329-01-1	Benzene, 1-isocyanato-3-(trifluoromethyl)- .....	10/29/90	12/27/90
614-68-6	Benzene, 1-isocyanato-2-methyl- .....	10/29/90	12/27/90
622-58-2	Benzene, 1-isocyanato-4-methyl- .....	10/29/90	12/27/90
624-83-9	Methane, isocyanato- .....	10/29/90	12/27/90
1476-23-9	1-Propene, 3-isocyanato- .....	10/29/90	12/27/90
2422-91-5	Benzene, 1,1',1''-methylidynetris(4-isocyanato- .....	10/29/90	12/27/90
2493-02-9	Benzene, 1-bromo-4-isocyanato- .....	10/29/90	12/27/90
2909-38-8	Benzene, 1-chloro-3-isocyanato- .....	10/29/90	12/27/90
2949-22-6	Acetic acid, isocyanato-, ethyl ester .....	10/29/90	12/27/90
3173-53-3	Cyclohexane, isocyanato- .....	10/29/90	12/27/90

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OSHA Chemicals in Need of Dermal Absorption Testing			
4035–89–6	Imidodicarbonic diamide,N,N',2-tris(6-isocyanatohexyl)- .....	10/29/90	12/27/90
4098–71–9	Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl- .....	10/29/90	12/27/90
4151–51–3	Phenol, 4-isocyanato-, phosphorothioate (3:1) (ester) .....	10/29/90	12/27/90
5124–30–1	Cyclohexane, 1,1'-methylenebis(4-isocyanato- .....	10/29/90	12/27/90
5873–54–1	Benzene, 1-isocyanato-2-((4-isocyanatophenyl)methyl)- .....	10/29/90	12/27/90
10031–75–1	Benzene, 1,1'-(diisocyanatomethylene)bis- .....	10/29/90	12/27/90
15646–96–5	Hexane, 1,6-diisocyanato-2,4,4-trimethyl- .....	10/29/90	12/27/90
16938–22–0	Hexane, 1,6-diisocyanato-2,2,4-trimethyl- .....	10/29/90	12/27/90
25854–16–4	Benzene, bis(isocyanatomethyl)- .....	10/29/90	12/27/90
26447–40–5	Benzene, 1,1'-methylenebis(isocyanato- .....	10/29/90	12/27/90
26603–40–7	1,3,5-Triazine-2,4,6-(1H,3H,5H-trione, 1,3,5-tris(3-isocyanatomethylphenyl)- .....	10/29/90	12/27/90
26747–90–0	1,3-Diazetidone-2,4-dione, 1,3-bis(3-isocyanatomethylphenyl)- .....	10/29/90	12/27/90
28178–42–9	Benzene, 2-isocyanato-1,3-bis(1-methylethyl)- .....	10/29/90	12/27/90
28556–81–2	Benzene, 2-isocyanato-1,3-dimethyl- .....	10/29/90	12/27/90
30674–80–7	2-Propenoic acid, 2-methyl-,2-isocyanatoethyl ester .....	10/29/90	12/27/90
34893–92–0	Benzene, 1,3-dichloro-5-isocyanato- .....	10/29/90	12/27/90
68239–06–5	Cyclohexane, 2-heptyl-3,4-bis(9-isocyanatononyl)-1-pentyl- .....	10/29/90	12/27/90
73597–26–9	2-Propenoic acid, 2-methyl-, 2-(((5-isocyanato-1,3,3-trimethylcyclohexyl) methyl)amino)carbonyloxy)ethyl ester. .....	10/29/90	12/27/90
Methyl ethylene glycol ethers and esters			
3121-61-7	Ethylene glycol monomethyl ether acrylate .....	1/26/94	3/28/94
23783-42-8	Tetraethylene glycol monomethyl ether .....	1/26/94	3/28/94
Nonylphenol ethoxylates			
7311–27–5	Ethanol, 2-[2-[2-(p-nonylphenoxy)ethoxy]ethoxy]ethoxy]- .....	2/10/00	4/10/00
9016–45–9	Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy- .....	2/10/00	4/10/00
20427–84–3	Ethanol, 2-[2-(p-nonylphenoxy)ethoxy]- .....	2/10/00	4/10/00
20636–48–0	3,6,9,12-Tetraoxatetradecan-1-ol, 14-(4-nonylphenoxy)- .....	2/10/00	4/10/00
26027–38–3	Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy- .....	2/10/00	4/10/00
26264–02–8	3,6,9,12-Tetraoxatetradecan-1-ol, 14-(nonylphenoxy)- .....	2/10/00	4/10/00
26571–11–9	3,6,9,12,15,18,21,24-Octaoxahexacosan-1-ol, 26-(nonylphenoxy)- .....	2/10/00	4/10/00
27176–93–8	Ethanol, 2-[2-(nonylphenoxy)ethoxy]- .....	2/10/00	4/10/00
27177–01–1	3,6,9,12,15-Pentaoxaheptadecan-1-ol, 17-(nonylphenoxy)- .....	2/10/00	4/10/00
27177–05–5	3,6,9,12,15,18,21-Heptaotricosan-1-ol, 23-(nonylphenoxy)- .....	2/10/00	4/10/00
27177–08–8	3,6,9,12,15,18,21,24,27-Nonaoxanonacosan-1-ol, 29-(nonylphenoxy)- .....	2/10/00	4/10/00
27986–36–3	Ethanol, 2-(nonylphenoxy)- .....	2/10/00	4/10/00
37205–87–1	Poly(oxy-1,2-ethanediyl), alpha-(isononylphenyl)-omega-hydroxy- .....	2/10/00	4/10/00
51938–25–1	Poly(oxy-1,2-ethanediyl), alpha-(2-nonylphenyl)-omega-hydroxy- .....	2/10/00	4/10/00
65455–72–3	3,6,9,12,15,18,21,24,27-Nonaoxanonacosan-1-ol, 29-(isononylphenoxy)- .....	2/10/00	4/10/00
68412–54–4	Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, branched .....	2/10/00	4/10/00
98113–10–1	NP9 .....	2/10/00	4/10/00
127087–87–0	Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched .....	2/10/00	4/10/00
152143–22–1	Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched, phosphates. .....	2/10/00	4/10/00
OSHA Chemicals in Need of Dermal Absorption Testing			
60–29–7	Ethyl ether .....	1/26/94	3/28/94
61–82–5	Amitrole .....	3/11/94	5/10/94
74–96–4	Ethyl bromide .....	3/11/94	5/10/94
75–05–8	Acetonitrile .....	8/4/95	10/3/95
75–12–7	Formamide .....	8/4/95	10/3/95
75–15–0	Carbon disulfide .....	3/11/94	5/10/94
75–25–2	Bromoform .....	3/11/94	5/10/94
75–34–3	1,1-Dichloroethane .....	3/11/94	5/10/94
75–35–4	Vinylidene chloride .....	8/4/95	10/3/95
75–65–0	tert-Butyl alcohol .....	1/26/94	3/28/94
76–22–2	Camphor .....	1/26/94	3/28/94
77–73–6	Dicyclopentadiene .....	8/4/95	10/3/95
77–78–1	Dimethyl sulfate .....	3/11/94	5/10/94
78–59–1	Isophorone .....	8/4/95	10/3/95
78–87–5	Propylene dichloride .....	8/4/95	10/3/95
78–92–2	sec-Butyl alcohol .....	1/26/94	3/28/94
79–20–9	Methyl acetate .....	1/26/94	3/28/94
79–46–9	2-Nitropropane .....	3/11/94	5/10/94
88–72–2	o-Nitrotoluene .....	3/11/94	5/10/94
89–72–5	o-sec-Butylphenol .....	3/11/94	5/10/94
90–04–0	o-Anisidine .....	3/11/94	5/10/94
91–20–3	Naphthalene .....	8/4/95	10/3/95

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OSHA Chemicals in Need of Dermal Absorption Testing			
92-52-4	Biphenyl .....	8/4/95	10/3/95
95-13-6	Indene .....	3/11/94	5/10/94
95-49-8	o-Chlorotoluene .....	3/11/94	5/10/94
95-50-1	o-Dichlorobenzene .....	8/4/95	10/3/95
96-18-4	1,2,3-Trichloropropane .....	8/4/95	10/3/95
97-77-8	Disulfiram .....	1/26/94	3/28/94
98-29-3	t-Butylcatechol .....	8/4/95	10/3/95
99-08-1	m-Nitrotoluene .....	8/4/95	10/3/95
99-65-0	m-Dinitrobenzene .....	3/11/94	5/10/94
99-99-0	p-Nitrotoluene .....	8/4/95	10/3/95
100-00-5	p-Nitrochlorobenzene .....	3/11/94	5/10/94
100-01-6	p-Nitroaniline .....	3/11/94	5/10/94
100-44-7	Benzyl chloride .....	3/11/94	5/10/94
100-25-4	p-Dinitrobenzene .....	1/26/94	3/28/94
100-63-0	Phenylhydrazine .....	3/11/94	5/10/94
105-46-4	sec-Butyl acetate .....	1/26/94	3/28/94
106-42-3	p-Xylene .....	1/26/94	3/28/94
106-46-7	p-Dichlorobenzene .....	8/4/95	10/3/95
106-49-0	p-Toluidine .....	3/11/94	5/10/94
107-06-2	Ethylene dichloride .....	8/4/95	10/3/95
107-31-3	Methyl formate .....	1/26/94	3/28/94
107-66-4	Dibutyl phosphate .....	1/26/94	3/28/94
108-03-2	1-Nitropropane .....	1/26/94	3/28/94
108-44-1	m-Toluidine .....	3/11/94	5/10/94
108-87-2	Methylcyclohexane .....	1/26/94	3/28/94
108-90-7	Chlorobenzene .....	3/11/94	5/10/94
108-93-0	Cyclohexanol .....	8/4/95	10/3/95
109-66-0	Pentane .....	1/26/94	3/28/94
109-99-9	Tetrahydrofuran .....	3/11/94	5/10/94
110-12-3	Methyl isoamyl ketone .....	8/4/95	10/3/95
110-83-8	Cyclohexene .....	1/26/94	3/28/94
111-84-2	Nonane .....	1/26/94	3/28/94
120-80-9	Catechol .....	8/4/95	10/3/95
121-14-2	2,4-Dinitrotoluene .....	3/11/94	5/10/94
121-69-7	Dimethylaniline .....	8/4/95	10/3/95
122-39-4	Diphenylamine .....	3/11/94	5/10/94
123-42-2	Diacetone alcohol .....	8/4/95	10/3/95
123-92-2	Isoamyl acetate .....	1/26/94	3/28/94
126-99-8	beta-Chloroprene .....	3/11/94	5/10/94
127-19-5	Dimethyl acetamide .....	8/4/95	10/3/95
142-82-5	Heptane (n-Heptane) .....	1/26/94	3/28/94
150-76-5	p-Methoxyphenol .....	3/11/94	5/10/94
287-92-3	Cyclopentane .....	1/26/94	3/28/94
528-29-0	o-Dinitrobenzene .....	3/11/94	5/10/94
532-27-4	a-Chloroacetophenone .....	1/26/94	3/28/94
540-59-0	1,2-Dichloroethylene .....	3/11/94	5/10/94
540-88-5	tert-Butyl acetate .....	1/26/94	3/28/94
542-92-7	Cyclopentadiene .....	8/4/95	10/3/95
626-17-5	m-Phthalodinitrile .....	3/11/94	5/10/94
628-63-7	n-Amyl acetate .....	1/26/94	3/28/94
768-52-5	N-Isopropylaniline .....	3/11/94	5/10/94
1300-73-8	Xylidine .....	3/11/94	5/10/94
6423-43-4	Propylene glycol dinitrate .....	3/11/94	5/10/94
7631-90-5	Sodium bisulfite .....	1/26/94	3/28/94
7681-57-4	Sodium metabisulfite .....	1/26/94	3/28/94
25013-15-4	Vinyl toluene .....	3/11/94	5/10/94
34590-94-8	Dipropylene glycol methyl ether .....	8/4/95	10/3/95
Propylene glycol ethers and esters			
108-65-6	Propylene glycol monomethyl ether acetate .....	1/26/94	3/28/94
110-98-5	Dipropylene glycol .....	1/26/94	3/28/94
770-35-4	1-Phenoxy-2-propanol .....	1/26/94	3/28/94
20324-32-7	1-(2-Methoxy-1-methylethoxy)-2-propanol .....	1/26/94	3/28/94
20324-33-8	Tripropylene glycol methyl ether .....	1/26/94	3/28/94
28677-93-2	Methoxy-1-propanol .....	1/26/94	3/28/94
29387-86-8	Propylene glycol monobutyl ether .....	1/26/94	3/28/94
29911-28-2	Dipropylene glycol butyl ether .....	1/26/94	3/28/94
42978-66-5	Tripropylene glycol diacrylate .....	1/26/94	3/28/94
57018-52-7	Propylene glycol mono-tert-butyl ether .....	1/26/94	3/28/94
88917-22-0	Dipropylene glycol monomethyl ether acetate .....	1/26/94	3/28/94

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Propylene glycol ethers and esters			
Pyridinamines			
462–08–8	3-Pyridinamine .....	1/6/05	3/7/05
504–24–5	4-Pyridinamine .....	1/6/05	3/7/05
504–29–0	2-Pyridinamine .....	1/6/05	3/7/05
Siloxanes			
107–46–0	Hexamethyldisiloxane .....	10/12/93	2/28/94
107–50–6	Tetradecamethylcycloheptasiloxane .....	10/12/93	2/28/94
107–51–7	Octamethyltrisiloxane .....	10/12/93	2/28/94
107–52–8	Tetradecamethylhexasiloxane .....	10/12/93	2/28/94
107–53–9	Tetracosamethylundecasiloxane .....	10/12/93	2/28/94
141–62–8	Decamethyltetrasiloxane .....	10/12/93	2/28/94
141–63–9	Dodecamethylpentasiloxane .....	10/12/93	2/28/94
540–97–6	Dodecamethylcyclohexasiloxane .....	10/12/93	2/28/94
541–01–5	Hexadecamethylheptasiloxane .....	10/12/93	2/28/94
541–02–6	Decamethylcyclopentasiloxane .....	10/12/93	2/28/94
541–05–9	Hexamethylcyclotrisiloxane .....	10/12/93	2/28/94
546–56–5	Octaphenylcyclohexasiloxane .....	10/12/93	2/28/94
556–67–2	Octamethylcyclohexasiloxane .....	10/12/93	2/28/94
556–68–3	Hexadecamethylcyclooctasiloxane .....	10/12/93	2/28/94
556–69–4	Octadecamethyloctasiloxane .....	10/12/93	2/28/94
556–70–7	Docosamethyldecaasiloxane .....	10/12/93	2/28/94
556–71–8	Octadecamethylcyclononasiloxane .....	10/12/93	2/28/94
999–97–3	Hexamethyldisilazane .....	10/12/93	2/28/94
2370–88–9	Tetramethylcyclohexasiloxane .....	10/12/93	2/28/94
2374–14–3	Trifluoropropylmethylcyclohexasiloxane .....	10/12/93	2/28/94
2471–08–1	Hexacosamethyldodecaasiloxane .....	10/12/93	2/28/94
2471–09–2	Octacosamethyltridecaasiloxane .....	10/12/93	2/28/94
2471–10–5	Triacontamethyltetradecaasiloxane .....	10/12/93	2/28/94
2471–11–6	Dotriacontamethylpentadecaasiloxane .....	10/12/93	2/28/94
2554–06–5	Methylvinylcyclosiloxane .....	10/12/93	2/28/94
2627–95–4	Tetramethyldivinylsiloxane .....	10/12/93	2/28/94
2652–13–3	Eicosamethylnonasiloxane .....	10/12/93	2/28/94
70131-67-8	Siloxanes and silicones, di-Me, hydroxy-terminated .....	10/12/93	2/28/94
9004–73–3	Methylpolysiloxane .....	10/12/93	2/28/94
18766–38–6	Docosamethylcycloundecaasiloxane .....	10/12/93	2/28/94
18772–36–6	Eicosamethylcyclodecaasiloxane .....	10/12/93	2/28/94
18844–04–7	Hexatriacontamethylheptadecaasiloxane .....	10/12/93	2/28/94
18919–94–3	Tetracosamethylcyclododecaasiloxane .....	10/12/93	2/28/94
23523–12–8	Hexatriacontamethylcyclooctadecaasiloxane .....	10/12/93	2/28/94
23523–14–0	Triacontamethylcyclopentadecaasiloxane .....	10/12/93	2/28/94
23732–94–7	Hexacosamethylcyclotridecaasiloxane .....	10/12/93	2/28/94
36938–50–8	Tetraatriacontamethyl hexadecaasiloxane .....	10/12/93	2/28/94
36938–52–0	Octatriacontamethyl octadecaasiloxane .....	10/12/93	2/28/94
63148–62–9	Dimethyl silicones and siloxanes .....	10/12/93	2/28/94
67762–90–7	Dimethyl silicones and siloxane, reaction products with silica .....	10/12/93	2/28/94
67762–94–1	Dimethylmethylvinylsiloxane .....	10/12/93	2/28/94
68037–59–2	Dimethylhydriopolysiloxane .....	10/12/93	2/28/94
68037–74–1	Dimethylpolysiloxanes .....	10/12/93	2/28/94
68083–14–7	Dimethyldiphenylsiloxane .....	10/12/93	2/28/94
69430–24–6	Cyclopolydimethylsiloxane .....	10/12/93	2/28/94
115361-68-7	Dimethylmethyl 3,3,3-trifluoropropyl siloxane .....	10/12/93	2/28/94
149050-40-8	Octacosamethylcyclohexadecaasiloxane .....	10/12/93	2/28/94
150026-95-2	Dotriacontamethylcyclohexadecaasiloxane .....	10/12/93	2/28/94
150026-96-3	Tetraatriacontamethylcycloheptadecaasiloxane .....	10/12/93	2/28/94
150026-97-4	Octatriacontamethylcyclononadecaasiloxane .....	10/12/93	2/28/94
150026-98-5	Tetracontamethylcycloicosasiloxane .....	10/12/93	2/28/94
150026-99-6	Tetracontamethylnonadecaasiloxane .....	10/12/93	2/28/94
150027-00-2	Dotetracontamethyleicosaasiloxane .....	10/12/93	2/28/94
not available	Polymethyloctadecylsiloxane .....	10/12/93	2/28/94
Substantially produced chemicals in need of subchronic tests			
80-51-3	p,p'-Oxybis(benzenesulfonylhydrazide) .....	9/30/91	11/27/91
81-84-5	Naphthalenedicarboxylic anhydride .....	9/30/91	11/27/91
84-51-5	2-Ethylanthraquinone .....	9/30/91	11/27/91
87-02-5	7-Amino-4-hydroxy-2-naphthalenesulfonic acid .....	9/30/91	11/27/91
90-15-3	1-Naphthol .....	9/30/91	11/27/91
92-70-6	3-Hydroxy-2-naphthoic acid .....	9/30/91	11/27/91
94-28-0	Triethylene glycol bis(2-ethylhexanoate) .....	9/30/91	11/27/91

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Substantially produced chemicals in need of subchronic tests			
95-32-9	2-(4-Morpholinylidithio)-benzothiazole .....	9/30/91	11/27/91
97-88-1	N-Butyl methacrylate .....	9/30/91	11/27/91
98-48-6	1,3-Benzenedisulfonic Acid .....	9/30/91	11/27/91
99-54-7	3,4-Dichloronitrobenzene .....	9/30/91	11/27/91
99-63-8	Isophthaloyl chloride .....	9/30/91	11/27/91
100-20-9	Terephthaloyl chloride .....	9/30/91	11/27/91
100-29-8	4-Ethoxynitrobenzene .....	9/30/91	11/27/91
102-01-2	Acetoacetanilide .....	9/30/91	11/27/91
106-31-0	Butyric anhydride .....	9/30/91	11/27/91
106-63-8	Isobutyl acrylate .....	9/30/91	11/27/91
111-96-6	Diethylene glycol dimethyl ether .....	9/30/91	11/27/91
112-15-2	Ethanol, 2-(2-ethoxyethoxy)-, acetate .....	9/30/91	11/27/91
116-81-4	Bromamine acid .....	9/30/91	11/27/91
119-33-5	4-Methyl-2-nitro-phenol .....	9/30/91	11/27/91
121-60-8	4-(Acetylamino)benzenesulfonyl chloride .....	9/30/91	11/27/91
123-54-6	2,4-Pentanedione .....	9/30/91	11/27/91
123-62-6	Propanoic anhydride .....	9/30/91	11/27/91
142-16-5	Bis(2-ethylhexyl)-2-butenedioate .....	9/30/91	11/27/91
311-89-7	Perfluorotributylamine .....	9/30/91	11/27/91
355-42-0	Perfluoro-N-hexane .....	9/30/91	11/27/91
594-42-3	Trichloromethanesulfonyl chloride .....	9/30/91	11/27/91
616-21-7	1,2-Dichlorobutane .....	9/30/91	11/27/91
626-17-5	1,3-Dicyanobenzene .....	9/30/91	11/27/91
760-23-6	3,4-Dichlorobutene .....	9/30/91	11/27/91
929-06-6	2-(2-Aminoethoxy)-ethanol .....	6/30/92	9/28/92
1047-16-1	Quinacridone .....	9/30/91	11/27/91
1111-78-0	Ammonium carbamate .....	9/30/91	11/27/91
3089-11-0	Hexa(methoxymethyl) melamine .....	9/30/91	11/27/91
Sulphones			
67-71-0	Dimethylsulfone .....	9/30/91	11/27/91
77-79-2	3-Sulfolene .....	9/30/91	11/27/91
80-07-9	Sulfonyl bis-(4-chlorobenzene) .....	9/30/91	11/27/91
80-08-0	4,4'-Diaminodiphenyl sulfone .....	9/30/91	11/27/91
80-09-1	Bisphenol S .....	9/30/91	11/27/91
98-30-6	2-Amino-4-(methylsulfonyl)phenol .....	9/30/91	11/27/91
126-33-0	Sulfolane .....	9/30/91	11/27/91
127-63-9	Diphenylsulfone .....	9/30/91	11/27/91
2580-77-0	2,2'-Sulfonyl bis-ethanol .....	9/30/91	11/27/91
3278-22-6	1,1'-[Methylene bis(sulfonyl)]bisethene .....	9/30/91	11/27/91
5246-57-1	2-[(3-Aminophenyl)sulfonyl]ethanol .....	9/30/91	11/27/91
16588-67-3	3-[N-Ethyl-4-[[6-(methylsulfonyl)-2-benzothiazolyl] azo]-m-toluidino]- propionitrile .....	9/30/91	11/27/91
17557-67-4	6-(Methylsulfonyl)-2-benzothiazolamine .....	9/30/91	11/27/91
17601-96-6	2-Amino-4-[(2-hydroxyethyl) sulfonyl]phenol .....	9/30/91	11/27/91
17688-68-5	4-Phenylthiomorpholine, 1,1-dioxide .....	9/30/91	11/27/91
17741-62-7	4-[4-[(2,6-Dichloro-4-nitrophenyl) azo]phenyl]thiomorpholine, 1,1-dioxide- .....	9/30/91	11/27/91
18760-44-6	3-(Decyloxy)tetrahydrothiophene 1,1-dioxide .....	9/30/91	11/27/91
20018-09-1	1-(Diiodomethyl) sulfonyl-4-methyl benzene .....	9/30/91	11/27/91
26750-50-5	1,1'-[Oxybis(methylenesulfonyl)] bisethene .....	9/30/91	11/27/91
36724-43-3	2,2'-[Oxybis(methylenesulfonyl)]bisethanol .....	9/30/91	11/27/91
41123-59-5	1,1'-[Methylenebis(sulfonyl)]bis-2-chloroethane .....	9/30/91	11/27/91
41123-69-7	2,2'-[Methylenebis(sulfonyl)]bisethanol .....	9/30/91	11/27/91
41687-30-3	2-[(3-Nitrophenyl)sulfonyl]ethanol .....	9/30/91	11/27/91
52218-35-6	2-[[6-Amino-2-naphthalenyl)sulfonyl]ethanol .....	9/30/91	11/27/91
53061-10-2	1,1'-[Oxybis(methylenesulfonyl)]bis-2-chloroethane .....	9/30/91	11/27/91
63134-33-8	4-[[4-(Phenylmethoxy)phenyl]sulfonyl]phenol .....	9/30/91	11/27/91
Tungsten compounds			
1314-35-8	Tungsten oxide (WO <sub>3</sub> ) .....	1/6/05	3/7/05
7440-33-7	Tungsten .....	1/6/05	3/7/05
7783-03-1	Tungstate (WO <sub>4</sub> <sup>2-</sup> ), dihydrogen, (T-4)- .....	1/6/05	3/7/05
7783-82-6	Tungsten fluoride (WF <sub>6</sub> ), (OC-6-11)- .....	1/6/05	3/7/05
7790-60-5	Tungstate (WO <sub>4</sub> <sup>2-</sup> ), dipotassium, (T-4)- .....	1/6/05	3/7/05
7790-85-4	Cadmium tungsten oxide (CdWO <sub>4</sub> ) .....	1/6/05	3/7/05
10213-10-2	Tungstate (WO <sub>4</sub> <sup>2-</sup> ), disodium, dihydrate, (T-4)- .....	1/6/05	3/7/05
11105-11-6	Tungsten oxide (WO <sub>3</sub> ), hydrate .....	1/6/05	3/7/05
11120-01-7	Sodium tungsten oxide .....	1/6/05	3/7/05
11120-25-5	Tungstate (W <sub>12</sub> (OH) <sub>2</sub> O <sub>40</sub> <sup>10-</sup> ), decaammonium .....	1/6/05	3/7/05

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Tungsten compounds			
12027–38–2	Tungstate(4-), [mu.12-[orthosilicato(4-)-kappa.O:kappa.O:kappa.O:kappa.O:kappa.O':kappa.O':kappa.O':kappa.O':kappa.O':kappa.O':kappa.O':kappa.O']tetracosaoxododeca-, tetrahydrogen.	1/6/05	3/7/05
12028–48–7	Tungstate (W <sub>12</sub> (OH) <sub>2</sub> O <sub>38</sub> <sup>6-</sup> ), hexaammonium	1/6/05	3/7/05
12036–22–5	Tungsten oxide (WO <sub>2</sub> )	1/6/05	3/7/05
12067–99–1	Tungsten hydroxide oxide phosphate	1/6/05	3/7/05
12138–09–9	Tungsten sulfide (WS <sub>2</sub> )	1/6/05	3/7/05
12141–67–2	Tungstate (W <sub>12</sub> (OH) <sub>2</sub> O <sub>38</sub> <sup>6-</sup> ), hexasodium	1/6/05	3/7/05
13283–01–7	Tungsten chloride (WCl <sub>6</sub> ), (OC-6-11)-	1/6/05	3/7/05
13472–45–2	Tungstate (WO <sub>2</sub> <sup>2-</sup> ), disodium, (T-4)-	1/6/05	3/7/05
14040–11–0	Tungsten carbonyl (W(CO) <sub>6</sub> ), (OC-6-11)-	1/6/05	3/7/05
23321–70–2	Tungsten oxide (WO <sub>3</sub> ), dihydrate	1/6/05	3/7/05
Vanadium compounds			
1314–34–7	Vanadium oxide (V2O3) [Vanadium trioxide]	7/11/03	9/9/03
1314–62–1	Vanadium oxide (V2O5) [Vanadium pentoxide]	7/11/03	9/9/03
1686–22–2	Vanadium, triethoxyoxo-, (T-4)- [Triethyl orthovanadate]	7/11/03	9/9/03
3153–26–2	Vanadium, oxobis (2,4-pentanedionato-kappa.O,kappa.O)-, (SP-5-21)-	7/11/03	9/9/03
5588–84–1	Vanadium, oxotris(2-propanolato)-, (T-4)- [Vanadium triisopropoxide oxide]	7/11/03	9/9/03
7440–62–2	Vanadium	7/11/03	9/9/03
7632–51–1	Vanadium chloride (VCl4), (T-4)- [Vanadium tetrachloride]	7/11/03	9/9/03
7718–98–1	Vanadium chloride (VCl3) [Vanadium trichloride]	7/11/03	9/9/03
7727–18–6	Vanadium, trichloroxo-, (T-4)- [Vanadium oxytrichloride]	7/11/03	9/9/03
7803–55–6	Vanadate (VO3 <sup>1-</sup> ), ammonium [Ammonium metavanadate]	7/11/03	9/9/03
10049–16–8	Vanadium fluoride (VF4) [Vanadium tetrafluoride]	7/11/03	9/9/03
10213–09–9	Vanadium, dichloroxo- [Vanadyl dichloride]	7/11/03	9/9/03
10580–52–6	Vanadium chloride (VCl2) [Vanadium dichloride]	7/11/03	9/9/03
11099–11–9	Vanadium oxide [Polyvanadic acid]	7/11/03	9/9/03
11115–67–6	Ammonium vanadium oxide	7/11/03	9/9/03
11130–21–5	Vanadium carbide	7/11/03	9/9/03
12007–37–3	Vanadium boride (VB2)	7/11/03	9/9/03
12035–98–2	Vanadium oxide (VO)	7/11/03	9/9/03
12036–21–4	Vanadium oxide (VO2)	7/11/03	9/9/03
12070–10–9	Vanadium carbide (VC)	7/11/03	9/9/03
12083–48–6	Vanadium, dichlorobis (eta.5-2,4-cyclopentadien-1-yl)-	7/11/03	9/9/03
12166–27–7	Vanadium sulfide (VS)	7/11/03	9/9/03
12439–96–2	Vanadium, oxo[sulfato(2-)-kappa.O]-, pentahydrate [Vanadyl sulfate (VOSO4), pentahydrate].	7/11/03	9/9/03
12604–58–9	Vanadium alloy, base, V,C,Fe (Ferrovanadium)	7/11/03	9/9/03
13470–26–3	Vanadium bromide (VBr3)	7/11/03	9/9/03
13476–99–8	Vanadium, tris(2,4-pentanedionato-kappa.O,kappa.O)-, (OC-6-11)- [Vanadium tris(acetylacetonate)].	7/11/03	9/9/03
13497–94–4	Silver vanadium oxide (AgVO3)	7/11/03	9/9/03
13517–26–5	Sodium vanadium oxide (Na4V2O7) [Sodium pyrovanadate]	7/11/03	9/9/03
13718–26–8	Vanadate (VO3 <sup>1-</sup> ), sodium [Sodium metavanadate]	7/11/03	9/9/03
13721–39–6	Sodium vanadium oxide (Na3VO4) [Sodium orthovanadate]	7/11/03	9/9/03
13769–43–2	Vanadate (VO3 <sup>1-</sup> ), potassium [Potassium metavanadate]	7/11/03	9/9/03
13930–88–6	Vanadium, oxo[29H,31H-phthalocyaninato(2-)-kappa.N29,kappa.N30,kappa.N31,kappa.N32]-, (SP-5-12)-.	7/11/03	9/9/03
14059–33–7	Bismuth vanadium oxide (BiVO4)	7/11/03	9/9/03
19120–62–8	Vanadium, tris(2-methyl-1-propanolato)oxo-, (T-4)- [Isobutyl orthovanadate]	7/11/03	9/9/03
24646–85–3	Vanadium nitride (VN)	7/11/03	9/9/03
27774–13–6	Vanadium, oxo[sulfato(2-)-kappa.O]- [Vanadyl sulfate]	7/11/03	9/9/03
30486–37–4	Vanadium hydroxide oxide (V(OH)2O)	7/11/03	9/9/03
39455–80–6	Ammonium sodium vanadium oxide	7/11/03	9/9/03
53801–77–7	Bismuth vanadium oxide	7/11/03	9/9/03
65232–89–5	Vanadium hydroxide oxide phosphate	7/11/03	9/9/03
68130–18–7	Vanadium hydroxide oxide phosphate (V6(OH)3O3(PO4)7)	7/11/03	9/9/03
68815–09–8	Naphthenic acids, vanadium salts	7/11/03	9/9/03
68990–29–4	Balsams, copaiba, sulfurized, vanadium salts	7/11/03	9/9/03
Voluntary HPV Challenge Program orphan (unsponsored) chemicals			
62–56–6	Thiourea	September 29, 2006	November 28, 2006
77–76–9	Propane, 2,2-dimethoxy-	September 29, 2006	November 28, 2006
81–07–2	1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide	September 29, 2006	November 28, 2006



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Voluntary HPV Challenge Program orphan (unsponsored) chemicals			
81-16-3	1-Naphthalenesulfonic acid, 2-amino- .....	September 29, 2006	November 28, 2006
81-84-5	1H,3H-Naphtho[1,8-cd]pyran-1,3-dione .....	September 29, 2006	November 28, 2006
83-41-0	Benzene, 1,2-dimethyl-3-nitro- .....	September 29, 2006	November 28, 2006
84-69-5	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester .....	September 29, 2006	November 28, 2006
85-40-5	1H-Isindole-1,3(2H)-dione, 3a,4,7,7a-tetrahydro- .....	September 29, 2006	November 28, 2006
91-68-9	Phenol, 3-(diethylamino)- .....	September 29, 2006	November 28, 2006
94-96-2	1,3-Hexanediol, 2-ethyl- .....	September 29, 2006	November 28, 2006
96-22-0	3-Pentanone .....	September 29, 2006	November 28, 2006
97-00-7	Benzene, 1-chloro-2,4-dinitro- .....	September 29, 2006	November 28, 2006
98-09-9	Benzenesulfonyl chloride .....	September 29, 2006	November 28, 2006
98-16-8	Benzenamine, 3-(trifluoromethyl)- .....	September 29, 2006	November 28, 2006
98-56-6	Benzene, 1-chloro-4-(trifluoromethyl)- .....	September 29, 2006	November 28, 2006
101-34-8	9-Octadecenoic acid, 12-(acetyloxy)-, 1,2,3-propanetriyl ester, (9Z,9'Z,9'',12R,12'R,12'')- .....	September 29, 2006	November 28, 2006
104-66-5	Benzene, 1,1'-[1,2-ethanediylbis(oxy)]bis- .....	September 29, 2006	November 28, 2006
104-93-8	Benzene, 1-methoxy-4-methyl- .....	September 29, 2006	November 28, 2006
107-39-1	1-Pentene, 2,4,4-trimethyl- .....	September 29, 2006	November 28, 2006
107-40-4	2-Pentene, 2,4,4-trimethyl- .....	September 29, 2006	November 28, 2006
110-18-9	1,2-Ethanediamine, N,N,N',N'-tetramethyl- .....	September 29, 2006	November 28, 2006
110-33-8	Hexanedioic acid, dihexyl ester .....	September 29, 2006	November 28, 2006
111-44-4	Ethane, 1,1'-oxybis[2-chloro- .....	September 29, 2006	November 28, 2006
111-85-3	Octane, 1-chloro- .....	September 29, 2006	November 28, 2006
111-91-1	Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro- .....	September 29, 2006	November 28, 2006
118-90-1	Benzoic acid, 2-methyl- .....	September 29, 2006	November 28, 2006
119-33-5	Phenol, 4-methyl-2-nitro- .....	September 29, 2006	November 28, 2006
121-69-7	Benzenamine, N,N-dimethyl- .....	September 29, 2006	November 28, 2006
121-82-4	1,3,5-Triazine, hexahydro-1,3,5-trinitro- .....	September 29, 2006	November 28, 2006
124-63-0	Methanesulfonyl chloride .....	September 29, 2006	November 28, 2006
127-68-4	Benzenesulfonic acid, 3-nitro-, sodium salt .....	September 29, 2006	November 28, 2006
131-57-7	Methanone, (2-hydroxy-4-methoxyphenyl)phenyl- .....	September 29, 2006	November 28, 2006
137-20-2	Ethanesulfonic acid, 2-[methyl[(9Z)-1-oxo-9-octadeceny]amino]-, sodium salt .....	September 29, 2006	November 28, 2006
138-25-0	1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester .....	September 29, 2006	November 28, 2006
139-40-2	1,3,5-Triazine-2,4-diamine, 6-chloro-N,N'-bis(1-methylethyl)- .....	September 29, 2006	November 28, 2006
140-93-2	Carbonodithioic acid, O-(1-methylethyl) ester, sodium salt .....	September 29, 2006	November 28, 2006
142-73-4	Glycine, N-(carboxymethyl)- .....	September 29, 2006	November 28, 2006
330-54-1	Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl- .....	September 29, 2006	November 28, 2006

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Voluntary HPV Challenge Program orphan (unsponsored) chemicals			
460–00–4	Benzene, 1-bromo-4-fluoro- .....	September 29, 2006	November 28, 2006
506–51–4	1-Tetracosanol .....	September 29, 2006	November 28, 2006
506–52–5	1-Hexacosanol .....	September 29, 2006	November 28, 2006
513–74–6	Carbamodithioic acid, monoammonium salt .....	September 29, 2006	November 28, 2006
515–40–2	Benzene, (2-chloro-1,1-dimethylethyl)- .....	September 29, 2006	November 28, 2006
529–33–9	1-Naphthalenol, 1,2,3,4-tetrahydro- .....	September 29, 2006	November 28, 2006
529–34–0	1(2H)-Naphthalenone, 3,4-dihydro- .....	September 29, 2006	November 28, 2006
542–92–7	1,3-Cyclopentadiene .....	September 29, 2006	November 28, 2006
557–61–9	1-Octacosanol .....	September 29, 2006	November 28, 2006
563–72–4	Ethanedioic acid, calcium salt (1:1) .....	September 29, 2006	November 28, 2006
590–19–2	1,2-Butadiene .....	September 29, 2006	November 28, 2006
592–45–0	1,4-Hexadiene .....	September 29, 2006	November 28, 2006
598–72–1	Propanoic acid, 2-bromo- .....	September 29, 2006	November 28, 2006
617–94–7	Benzenemethanol, .alpha.,.alpha.-dimethyl- .....	September 29, 2006	November 28, 2006
628–13–7	Pyridine, hydrochloride .....	September 29, 2006	November 28, 2006
628–96–6	1,2-Ethanediol, dinitrate .....	September 29, 2006	November 28, 2006
645–62–5	2-Hexenal, 2-ethyl- .....	September 29, 2006	November 28, 2006
693–95–8	Thiazole, 4-methyl- .....	September 29, 2006	November 28, 2006
756–80–9	Phosphorodithioic acid, O,O-dimethyl ester .....	September 29, 2006	November 28, 2006
870–72–4	Methanesulfonic acid, hydroxy-, monosodium salt .....	September 29, 2006	November 28, 2006
928–72–3	Glycine, N-(carboxymethyl)-, disodium salt .....	September 29, 2006	November 28, 2006
939–97–9	Benzaldehyde, 4-(1,1-dimethylethyl)- .....	September 29, 2006	November 28, 2006
1000–82–4	Urea, (hydroxymethyl)- .....	September 29, 2006	November 28, 2006
1002–69–3	Decane, 1-chloro- .....	September 29, 2006	November 28, 2006
1111–78–0	Carbamic acid, monoammonium salt .....	September 29, 2006	November 28, 2006
1401–55–4	Tannins .....	September 29, 2006	November 28, 2006
1445–45–0	Ethane, 1,1,1-trimethoxy- .....	September 29, 2006	November 28, 2006
1498–51–7	Phosphorodichloridic acid, ethyl ester .....	September 29, 2006	November 28, 2006
1738–25–6	Propanenitrile, 3-(dimethylamino)- .....	September 29, 2006	November 28, 2006
1912–24–9	1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- .....	September 29, 2006	November 28, 2006
2152–64–9	Benzenamine, N-phenyl-4-[[4-(phenylamino)phenyl][4-(phenylimino)-2,5-cyclohexadien-1-ylidene]methyl]-, monohydrochloride.	September 29, 2006	November 28, 2006
2210–79–9	Oxirane, [(2-methylphenoxy)methyl]- .....	September 29, 2006	November 28, 2006
2372–45–4	1-Butanol, sodium salt .....	September 29, 2006	November 28, 2006
2409–55–4	Phenol, 2-(1,1-dimethylethyl)-4-methyl- .....	September 29, 2006	November 28, 2006
2425–54–9	Tetradecane, 1-chloro- .....	September 29, 2006	November 28, 2006

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2494-89-5	Ethanol, 2-[(4-aminophenyl)sulfonyl]-, hydrogen sulfate (ester)	September 29, 2006	November 28, 2006
2524-03-0	Phosphorochloridothioic acid, O,O-dimethyl ester	September 29, 2006	November 28, 2006
2691-41-0	1,3,5,7-Tetrazocine, octahydro-1,3,5,7-tetranitro-	September 29, 2006	November 28, 2006
2814-20-2	4(1H)-Pyrimidinone, 6-methyl-2-(1-methylethyl)-	September 29, 2006	November 28, 2006
2905-62-6	Benzoyl chloride, 3,5-dichloro-	September 29, 2006	November 28, 2006
2915-53-9	2-Butenedioic acid (2Z)-, dioctyl ester	September 29, 2006	November 28, 2006
3039-83-6	Ethenesulfonic acid, sodium salt	September 29, 2006	November 28, 2006
3132-99-8	Benzaldehyde, 3-bromo-	September 29, 2006	November 28, 2006
3386-33-2	Octadecane, 1-chloro-	September 29, 2006	November 28, 2006
3779-63-3	1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris(6-isocyanatohexyl)-	September 29, 2006	November 28, 2006
3965-55-7	1,3-Benzenedicarboxylic acid, 5-sulfo-, 1,3-dimethyl ester, sodium salt	September 29, 2006	November 28, 2006
4035-89-6	Imidodicarbonic diamide, N,N',2-tris(6-isocyanatohexyl)-	September 29, 2006	November 28, 2006
4170-30-3	2-Butenal	September 29, 2006	November 28, 2006
4316-73-8	Glycine, N-methyl-, monosodium salt	September 29, 2006	November 28, 2006
4860-03-1	Hexadecane, 1-chloro-	September 29, 2006	November 28, 2006
5026-74-4	Oxiranemethanamine, N-[4-(oxiranylmethoxy)phenyl]-N-(oxiranylmethyl)-	September 29, 2006	November 28, 2006
5216-25-1	Benzene, 1-chloro-4-(trichloromethyl)-	September 29, 2006	November 28, 2006
5460-09-3	2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-, monosodium salt	September 29, 2006	November 28, 2006
5915-41-3	1,3,5-Triazine-2,4-diamine, 6-chloro-N-(1,1-dimethylethyl)-N'-ethyl-	September 29, 2006	November 28, 2006
6473-13-8	2-Naphthalenesulfonic acid, 6-[(2,4-diaminophenyl)azo]-3-[[4-[[7-[(2,4-diaminophenyl)azo]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]phenyl]amino]-3-sulfo-phenyl]azo]-4-hydroxy-, trisodium salt.	September 29, 2006	November 28, 2006
7795-95-1	1-Octanesulfonyl chloride	September 29, 2006	November 28, 2006
8001-58-9	Creosote	September 29, 2006	November 28, 2006
10265-69-7	Glycine, N-phenyl-, monosodium salt	September 29, 2006	November 28, 2006
13749-94-5	Ethanimidothioic acid, N-hydroxy-, methyl ester	September 29, 2006	November 28, 2006
13826-35-2	Benzenemethanol, 3-phenoxy-	September 29, 2006	November 28, 2006
17103-31-0	Urea, sulfate (2:1)	September 29, 2006	November 28, 2006
17321-47-0	Phosphoramidothioic acid, O,O-dimethyl ester	September 29, 2006	November 28, 2006
17976-43-1	2,4,6,8,3,5,7-Benzotetraoxatriplumbacycloundecin-3,5,7-triylidene, 1,9-dihydro-1,9-dioxo-	September 29, 2006	November 28, 2006
19438-61-0	1,3-Isobenzofurandione, 5-methyl-	September 29, 2006	November 28, 2006
19525-59-8	Glycine, N-phenyl-, monopotassium salt	September 29, 2006	November 28, 2006
20068-02-4	2-Butenenitrile, 2-methyl-, (2Z)-	September 29, 2006	November 28, 2006
20227-53-6	Phosphorous acid, 2-(1,1-dimethylethyl)-4-[1-[3-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-methylethyl]phenyl bis(4-nonylphenyl) ester.	September 29, 2006	November 28, 2006
21351-39-3	Urea, sulfate (1:1)	September 29, 2006	November 28, 2006
22527-63-5	Propanoic acid, 2-methyl-, 3-(benzoyloxy)-2,2,4-trimethylpentyl ester	September 29, 2006	November 28, 2006
24615-84-7	2-Propenoic acid, 2-carboxyethyl ester	September 29, 2006	November 28, 2006

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Voluntary HPV Challenge Program orphan (unsponsored) chemicals			
24794–58–9	Formic acid, compd. with 2,2',2[ethanol] (1:1)	September 29, 2006	November 28, 2006
25154–38–5	Piperazineethanol	September 29, 2006	November 28, 2006
25168–05–2	Benzene, chloromethyl-	September 29, 2006	November 28, 2006
25168–06–3	Phenol, (1-methylethyl)-	September 29, 2006	November 28, 2006
25321–41–9	Benzenesulfonic acid, dimethyl-	September 29, 2006	November 28, 2006
25383–99–7	Octadecanoic acid, 2-(1-carboxyethoxy)-1-methyl-2-oxoethyl ester, sodium salt	September 29, 2006	November 28, 2006
25646–71–3	Methanesulfonamide, N-[2-[(4-amino-3-methylphenyl)ethylamino]ethyl]-, sulfate (2:3)	September 29, 2006	November 28, 2006
26377–29–7	Phosphorodithioic acid, O,O-dimethyl ester, sodium salt	September 29, 2006	November 28, 2006
26401–27–4	Phosphorous acid, isooctyl diphenyl ester	September 29, 2006	November 28, 2006
26680–54–6	2,5-Furandione, dihydro-3-(octenyl)-	September 29, 2006	November 28, 2006
27193–28–8	Phenol, (1,1,3,3-tetramethylbutyl)-	September 29, 2006	November 28, 2006
28106–30–1	Benzene, ethenylethyl-	September 29, 2006	November 28, 2006
28188–24–1	Octadecanoic acid, 2-(hydroxymethyl)-2-[[1-(1-oxooctadecyl)oxy]methyl]-1,3-propanediyl ester	September 29, 2006	November 28, 2006
28908–00–1	Benzothiazole, 2-[(chloromethyl)thio]-	September 29, 2006	November 28, 2006
30574–97–1	2-Butenenitrile, 2-methyl-, (2E)-	September 29, 2006	November 28, 2006
34689–46–8	Phenol, methyl-, sodium salt	September 29, 2006	November 28, 2006
35203–06–6	Benzenamine, 2-ethyl-6-methyl-N-methylene-	September 29, 2006	November 28, 2006
35203–08–8	Benzenamine, 2,6-diethyl-N-methylene-	September 29, 2006	November 28, 2006
37734–45–5	Carbochlorodithioic acid, S-(phenylmethyl) ester	September 29, 2006	November 28, 2006
37764–25–3	Acetamide, 2,2-dichloro-N,N-di-2-propenyl-	September 29, 2006	November 28, 2006
38185–06–7	Benzenesulfonic acid, 4-chloro-3,5-dinitro-, potassium salt	September 29, 2006	November 28, 2006
38321–18–5	Ethanol, 2-(2-butoxyethoxy)-, sodium salt	September 29, 2006	November 28, 2006
39515–51–0	Benzaldehyde, 3-phenoxy-	September 29, 2006	November 28, 2006
40630–63–5	1-Octanesulfonyl fluoride	September 29, 2006	November 28, 2006
40876–98–0	Butanedioic acid, oxo-, diethyl ester, ion(1-), sodium	September 29, 2006	November 28, 2006
51632–16–7	Benzene, 1-(bromomethyl)-3-phenoxy-	September 29, 2006	November 28, 2006
52184–19–7	Phenol, 2,4-bis(1,1-dimethylpropyl)-6-[(2-nitrophenyl)azo]-	September 29, 2006	November 28, 2006
52556–42–0	1-Propanesulfonic acid, 2-hydroxy-3-(2-propenyloxy)-, monosodium salt	September 29, 2006	November 28, 2006
52663–57–7	Ethanol, 2-butoxy-, sodium salt	September 29, 2006	November 28, 2006
56803–37–3	Phosphoric acid, (1,1-dimethylethyl)phenyl diphenyl ester	September 29, 2006	November 28, 2006
57693–14–8	Chromate(3-), bis[3-(hydroxy-.kappa.O)-4-[[2-(hydroxy-.kappa.O)-1-naphthalenyl]azo-.kappa.N1]-7-nitro-1-naphthalenesulfonato(3-)-], trisodium	September 29, 2006	November 28, 2006
61788–44–1	Phenol, styrenated	September 29, 2006	November 28, 2006
61788–76–9	Alkanes, chloro	September 29, 2006	November 28, 2006
61789–85–3	Sulfonic acids, petroleum	September 29, 2006	November 28, 2006
63302–49–8	Phosphorochloridous acid, bis(4-nonylphenyl) ester	September 29, 2006	November 28, 2006

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Voluntary HPV Challenge Program orphan (unsponsored) chemicals			
64743-02-8	Alkenes, C>10 .alpha.- .....	September 29, 2006	November 28, 2006
64743-03-9	Phenols (petroleum) .....	September 29, 2006	November 28, 2006
65996-79-4	Solvent naphtha (coal) .....	September 29, 2006	November 28, 2006
65996-82-9	Tar oils, coal .....	September 29, 2006	November 28, 2006
65996-83-0	Extracts, coal tar oil alk. ....	September 29, 2006	November 28, 2006
65996-86-3	Extract oils (coal), tar base .....	September 29, 2006	November 28, 2006
65996-87-4	Extract residues (coal), tar oil alk. ....	September 29, 2006	November 28, 2006
65996-89-6	Tar, coal, high-temp. ....	September 29, 2006	November 28, 2006
65996-91-0	Distillates (coal tar), upper .....	September 29, 2006	November 28, 2006
65996-92-1	Distillates (coal tar) .....	September 29, 2006	November 28, 2006
68081-86-7	Phenol, nonyl derivs. ....	September 29, 2006	November 28, 2006
68082-78-0	Lard, oil, Me esters .....	September 29, 2006	November 28, 2006
68153-60-6	Fatty acids, tall-oil, reaction products with diethylenetriamine, acetates .....	September 29, 2006	November 28, 2006
68187-41-7	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters .....	September 29, 2006	November 28, 2006
68187-57-5	Pitch, coal tar-petroleum .....	September 29, 2006	November 28, 2006
68187-59-7	Coal, anthracite, calcined .....	September 29, 2006	November 28, 2006
68188-18-1	Paraffin oils, chlorosulfonated, saponified .....	September 29, 2006	November 28, 2006
68308-74-7	Amides, tall-oil fatty, N,N-di-Me .....	September 29, 2006	November 28, 2006
68309-16-0	Fatty acids, tall-oil, 2-(2-hydroxyethoxy)ethyl esters .....	September 29, 2006	November 28, 2006
68309-27-3	Fatty acids, tall-oil, sulfonated, sodium salts .....	September 29, 2006	November 28, 2006
68334-01-0	Disulfides, alkylaryl dialkyl diaryl, petroleum refinery spent caustic oxidn. products ..	September 29, 2006	November 28, 2006
68441-66-7	Decanoic acid, mixed esters with dipentaerythritol, octanoic acid and valeric acid ...	September 29, 2006	November 28, 2006
68442-60-4	Acetaldehyde, reaction products with formaldehyde, by-products from .....	September 29, 2006	November 28, 2006
68442-77-3	2-Butenediamide, (2E)-, N,N'-bis[2-(4,5-dihydro-2-nortall-oil alkyl-1H-imidazol-1-yl)ethyl] derivs..	September 29, 2006	November 28, 2006
68457-74-9	Phenol, isobutylenated methylstyrenated .....	September 29, 2006	November 28, 2006
68513-62-2	Disulfides, C5-12-alkyl .....	September 29, 2006	November 28, 2006
68515-89-9	Barium, carbonate nonylphenol complexes .....	September 29, 2006	November 28, 2006
68527-22-0	Naphtha (petroleum), clay-treated light straight-run .....	September 29, 2006	November 28, 2006
68584-25-8	Benzenesulfonic acid, C10-16-alkyl derivs., compds. with triethanolamine .....	September 29, 2006	November 28, 2006
68602-81-3	Distillates, hydrocarbon resin prodn. higher boiling .....	September 29, 2006	November 28, 2006
68608-59-3	Ethane, 1,2-dichloro-, manuf. of, by-products from, distn. lights .....	September 29, 2006	November 28, 2006
68609-05-2	Cyclohexane, oxidized, non-acidic by-products, distn. lights .....	September 29, 2006	November 28, 2006
68610-90-2	2-Butenedioic acid (2E)-, di-C8-18-alkyl esters .....	September 29, 2006	November 28, 2006
68649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts .....	September 29, 2006	November 28, 2006
68650-36-2	Aromatic hydrocarbons, C8, o-xylene-lean .....	September 29, 2006	November 28, 2006

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CAS No.	Substance	Effective date	Reporting date
Voluntary HPV Challenge Program orphan (unsponsored) chemicals			
68782–97–8	Distillates (petroleum), hydrofined lubricating-oil .....	September 29, 2006	November 28, 2006
68815–50–9	Octadecanoic acid, reaction products with 2-[(2-aminoethyl)amino]ethanol .....	September 29, 2006	November 28, 2006
68909–77–3	Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivs. residues	September 29, 2006	November 28, 2006
68915–05–9	Fatty acids, tall-oil, low-boiling, reaction products with ammonia-ethanolamine reaction by-products.	September 29, 2006	November 28, 2006
68915–39–9	Cyclohexane, oxidized, aq. ext., sodium salt .....	September 29, 2006	November 28, 2006
68918–16–1	Tar, coal, dried and oxidized .....	September 29, 2006	November 28, 2006
68919–17–5	Hydrocarbons, C12–20, catalytic alkylation by-products .....	September 29, 2006	November 28, 2006
68937–29–1	1,6-Hexanediol, distn. residues .....	September 29, 2006	November 28, 2006
68937–70–2	Carboxylic acids, C6–18 and C8–15-di- .....	September 29, 2006	November 28, 2006
68937–72–4	Carboxylic acids, di-, C4–11 .....	September 29, 2006	November 28, 2006
68953–80–0	Benzene, mixed with toluene, dealkylation product .....	September 29, 2006	November 28, 2006
68955–37–3	Acid chlorides, tallow, hydrogenated .....	September 29, 2006	November 28, 2006
68955–76–0	Aromatic hydrocarbons, C9–16, biphenyl deriv.-rich .....	September 29, 2006	November 28, 2006
68987–41–7	Benzene, ethylenated .....	September 29, 2006	November 28, 2006
68987–66–6	Ethene, hydrated, by-products from .....	September 29, 2006	November 28, 2006
68988–22–7	1,4-Benzenedicarboxylic acid, dimethyl ester, manuf. of, by-products from .....	September 29, 2006	November 28, 2006
68990–61–4	Tar, coal, high-temp., high-solids .....	September 29, 2006	November 28, 2006
68990–65–8	Fats and Glyceridic oils, vegetable, reclaimed .....	September 29, 2006	November 28, 2006
70084–98–9	Terpenes and Terpenoids, C10–30, distn. residues .....	September 29, 2006	November 28, 2006
70693–50–4	Phenol, 2,4-bis(1-methyl-1-phenylethyl)-6-[(2-nitrophenyl)azo]- .....	September 29, 2006	November 28, 2006
70851–08–0	Amides, coco, N-[3-(dimethylamino)propyl], alkylation products with sodium 3-chloro-2-hydroxypropanesulfonate.	September 29, 2006	November 28, 2006
71077–05–9	Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine product tower residues.	September 29, 2006	November 28, 2006
72162–15–3	1-Decene, sulfurized .....	September 29, 2006	November 28, 2006
72854–27–4	Tannins, reaction products with sodium bisulfite, sodium polysulfide and sodium sulfite.	September 29, 2006	November 28, 2006
73665–18–6	Extract residues (coal), tar oil alk., naphthalene distn. residues .....	September 29, 2006	November 28, 2006
83864–02–2	Nickel, bis[(cyano-C)triphenylborato(1-)-N]bis(hexanedinitrile-N,N')- .....	September 29, 2006	November 28, 2006
84501–86–0	Hexanedioic acid, esters with high-boiling C6–10-alkene hydroformylation products	September 29, 2006	November 28, 2006
90640–80–5	Anthracene oil .....	September 29, 2006	November 28, 2006
90640–86–1	Distillates (coal tar), heavy oils .....	September 29, 2006	November 28, 2006
119345–02–7	Benzene, 1,1'-oxybis-, tetrapropylene derivs. ....	September 29, 2006	November 28, 2006
125997–20–8	Phosphoric acid, mixed 3-bromo-2,2-dimethylpropyl and 2-bromoethyl and 2-chloroethyl esters.	September 29, 2006	November 28, 2006

(Secs 8(a) and 8(d), 90 Stat. 2027, 2029; 15 U.S.C. 2607 (a) and (d))

[47 FR 26998, June 22, 1982]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 712.30, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and on GPO Access.

EFFECTIVE DATE NOTE: At 59 FR 14115, Mar. 25, 1994, in § 712.30 paragraph (x), the chemical substances under the category "propylene glycol ethers esters" and all related dates were stayed, effective March 25, 1994. At 60 FR 31921, June 19, 1995, § 712.30 was amended in part by redesignating paragraph (x) as paragraph (e).

## PART 716—HEALTH AND SAFETY DATA REPORTING

### Subpart A—General Provisions

- Sec.
- 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.

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).

*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: