

TSCA Work Plan for Chemical Assessments: 2014 Update

Environmental Protection Agency

Office of Pollution Prevention and Toxics

October 2014

I. Overview

EPA is updating its list of existing chemicals for assessment under the Toxic Substances Control Act (TSCA); this is known as the [TSCA Work Plan for Chemical Assessments](#). The changes to the TSCA Work Plan for Chemical Assessments reflect updated industry data submitted to EPA through the Toxics Release Inventory (TRI) in 2011 and the TSCA Chemical Data Reporting (CDR) requirements in 2012 on chemical releases and potential exposures. This is the first update to the [TSCA Work Plan for Chemical Assessments](#), which EPA presented in early 2012. As newer data from TRI and CDR become available, EPA will update the TSCA Work Plan for Chemical Assessments. The Agency uses this Work Plan to focus the activities of the Existing Chemicals Program in the Office of Pollution Prevention and Toxics (OPPT) so that existing chemicals having the highest potential for exposure and hazard are assessed, and, if warranted, are subject to risk reduction actions.

EPA notes that identification of a chemical on the TSCA Work Plan for Chemical Assessments does not itself constitute a finding by the Agency that the chemical presents a risk to human health or the environment. Rather, identification of a chemical on the TSCA Work Plan for Chemical Assessments indicates only that the Agency intends to consider it for assessment. The Agency believes that identifying these chemicals early in the review process would afford all interested parties the opportunity to bring additional relevant information on those chemicals to the Agency's attention to further inform the assessment.

Identification of chemicals for the TSCA Work Plan for Chemical Assessments does not mean EPA would not consider other chemicals for assessment and potential risk reduction action under TSCA and other statutes; for example, if a potential risk has been identified with a chemical or type of chemicals, EPA may consider these chemicals. EPA will consider other chemicals if warranted by available information.

II. Background

The 2012 TSCA Work Plan for Chemical Assessments identified 83 chemicals for assessment by EPA as part of its chemical safety program. The screening process for identifying these chemicals is based on a combination of hazard, exposure (including via uses), and persistence and bioaccumulation characteristics, and is described in the [TSCA Work Plan Chemicals Methods Document](#). The Agency continues to use this process, which focuses on chemicals that meet one or more of the following factors:

- Potential concern for children's health (for example, because of reproductive or developmental effects)
- Neurotoxic effects
- Persistent, bioaccumulative and toxic
- Probable or known carcinogens
- Used in children's products or in products to which children may be highly exposed
- Detected in biomonitoring programs.

EPA also considered other factors in determining whether a chemical should be included on the TSCA Work Plan for Chemical Assessments. Some chemicals identified as 'high' through this scoring system may not necessarily be practical candidates for assessment under TSCA when other information

is factored into the process. For example, the particular risks presented by certain chemicals may already be addressed by significant regulation under other statutes.

III. 2014 Update to the TSCA Work Plan for Chemical Assessments

EPA updated the TSCA Work Plan for Chemical Assessments by using more recent information submitted in 2012 under the Chemical Data Reporting Rule (CDR) and data reported in 2011 to the Toxics Release Inventory (TRI). These data were used to update the exposure ranking for the 345 existing chemicals that were generated under the two-step screening process used in the 2012 TSCA Work Plan for Chemical Assessments. In 2012, the Agency used several sources to identify chemicals meeting prioritization factor criteria as potential candidates for review; a total of 1,235 chemicals were identified. This group was screened to determine if any chemicals should be excluded because they are not subject to TSCA or there was already significant regulation under TSCA, or due to radioactivity, complex process streams, natural occurrence, or other properties. After these chemicals were excluded, 345 chemicals remained as potential candidates and entered the second stage of the Work Plan screening, which scored them under three characteristics: hazard, exposure, and potential for persistence and bioaccumulation. Details of how chemicals were screened and criteria were used are in the [TSCA Work Plan Chemicals: Methods Document](#).

In addition to re-screening the 345 chemicals identified in 2012, EPA used the methodology developed for the TSCA Work Plan for Chemical Assessments to screen the [Action Plan chemicals](#), which were not part of the 2012 TSCA Work Plan for Chemical Assessments, as well as two chemical flame retardants identified during EPA's [development of a flame retardant strategy](#).

Based on this assessment, EPA is removing 15 of the original chemicals in the TSCA Work Plan for Chemical Assessments, consolidating one chemical, and adding 23 chemicals to the 2014 update to the TSCA Work Plan for Chemical Assessments, including five Action Plan chemicals or groups. The TSCA Work Plan for Chemical Assessments: 2014 Update contains 90 chemicals.

Completed Chemical Assessments

EPA has completed assessments for four chemicals that are on the TSCA Work Plan for Chemical Assessments:

- [Trichloroethylene \(TCE\)](#): This risk assessment addresses trichloroethylene (TCE) as a degreaser, a spot-cleaner in dry cleaning and a spray-on protective coating. On June 25, 2014, EPA released the final risk assessment that identified health risks to consumers using spray aerosol degreasers and spray fixatives and to workers when TCE is used as a degreaser in small commercial shops and as a stain removing agent in dry cleaning.
- [Methylene Chloride or Dichloromethane \(DCM\)](#): This risk assessment addresses methylene chloride in paint stripper products. On August 28, 2014, EPA released the final risk assessment that indicates health risks to both workers and consumers who use these products, and to bystanders in workplaces and residences where methylene chloride is used.

- [1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8,-hexamethylcyclopenta\[γ\]-2-benzopyran \(HHCB\)](#): This risk assessment addresses ecological risks from HHCB as a fragrance ingredient in commercial and consumer products. On August 28, 2014, EPA released the final risk assessment that indicated no concern for this use of HHCB.
- [Antimony Trioxide \(ATO\)](#): This risk assessment addresses effects on ecological receptors from the use of antimony trioxide (ATO) as a synergist in halogenated flame retardants. On August 28, 2014, EPA released the final risk assessment that indicated no concern for this use of ATO.

a. Chemicals Added

i. Action Plan Chemicals

From 2009 to 2011, EPA published ten chemical [Action Plans](#). Five chemicals or groups of chemicals that scored 'high' under the methodology developed for the TSCA Work Plan for Chemical Assessments methodology for which EPA has Action Plans are now included in the TSCA Work Plan for assessment. EPA added the following Action Plan chemicals to the TSCA Work Plan for Chemical Assessments:

- Bisphenol A (BPA)
- Decabromodiphenyl ether (decaBDE)
- Hexabromocyclododecane (HBCD)
- Nonylphenols and nonylphenol ethoxylates (NP/NPE)
- Group of phthalates (dibutyl phthalate (DBP), butyl benzyl phthalate (BBP), di-(2-ethylhexyl) phthalate (DEHP), di-*n*-octyl phthalate (DnOP), di-isononyl phthalate (DINP), di-isodecyl phthalate (DIDP), and di-isobutyl phthalate (DIBP))

Though a [July 2014 report](#) provided to the U.S. Consumer Product Safety Commission (CPSC) by the Chronic Hazard Advisory Panel (CHAP) on Phthalates and Phthalate Alternatives provided a risk assessment for the eight phthalates described in EPA's Action Plan, EPA is adding seven of these chemicals to the TSCA Work Plan for Chemical Assessments to determine whether any additional assessment is needed to supplement the report and address any TSCA-specific uses or exposure scenarios. One phthalate, di-*n*-pentyl phthalate (DnPP), is not being added since it is no longer in commerce.

Five of the ten Action Plan chemicals screened using the methodology of the TSCA Work Plan for Chemical Assessments will not be added to the TSCA Work Plan during this update.

- **Benzidine dyes** are not being added to the 2014 update of the TSCA Work Plan for Chemical Assessments because they are only moderately persistent and bioaccumulative, and have not been found to be present in human biomonitoring. Thus, the current exposure potential is considered low. EPA will propose a Significant New Use Rule for these chemicals so that the Agency can review any new uses before they are introduced into commerce.
- EPA has already begun risk management actions for **long-chain perfluorinated chemicals** (PFCs), which rank high for hazard due to chronic and developmental toxicity. PFCs

bioaccumulate in wildlife and humans, and are persistent in the environment. Use of one subgroup of PFCs (sulfonates) was discontinued in the United States from 2002 to 2006; additionally, in 2006 EPA and the eight major companies in the industry launched the 2010/15 PFOA Stewardship Program in which companies committed to reduce global facility emissions and product content of PFOA and related chemicals by 95 percent by 2010, and to work toward eliminating emissions and product content by 2015. However, EPA remains concerned about PFCs being produced by companies not participating in the stewardship program. Currently, the Agency is interested in gathering additional data regarding use of PFCs in imported articles before determining if these chemicals should be candidates for the assessment process.

- The diisocyanates **methylene diphenyl diisocyanate (MDI)** and **toluene diisocyanate (TDI)** are not being added to the TSCA Work Plan for Chemical Assessments because they are not persistent and bioaccumulative, due to their reactivity, and are not found in house dust (factors considered in the Work Plan Methodology). EPA intends to issue a SNUR for TDI. Given the toxicity and potential exposure of these chemicals, EPA will consider if other risk management actions are needed for these chemicals.
- EPA is not adding **short chain chlorinated paraffins** because they are no longer domestically produced or imported into the United States.

ii. Other Chemicals Added

In addition to the five Action Plan chemicals or groups being added, EPA is adding ten chemicals to the TSCA Work Plan for Chemical Assessments that in 2012 had been considered of moderate priority for assessment based on the TSCA Work Plan Methodology, and two chemicals that are part of a widely-used flame retardant.

Chemicals with an Increase in Score

Ten of the chemicals added are part of a group of 345 chemicals the Agency screened in 2012 during the development of the TSCA Work Plan for Chemical Assessments. They are:

- 1,3-Butadiene
- 2,5-Furandione
- 2-Dimethylaminoethanol
- 2-Hydroxy-4-(octyloxy)benzophenone
- 3,3'-Dichloro-benzidine
- 4,4'-(1-Methylethylidene)bis[2,6-dibromophenol] (TBBPA)
- Barium carbonate
- Dicyclohexyl phthalate
- Molybdenum and Molybdenum Compounds
- Pentachlorothiophenol

In the scoring process for the 2012 TSCA Work Plan for Chemical Assessments, these ten chemicals received a score of 'moderate.' Recently submitted CDR and TRI data (in 2012 and 2011, respectively) indicate that they are being domestically produced or imported in greater quantities and are being used in a larger variety of consumer and children's products, leading to an increase in their

exposure score and a subsequent increase in their final score to ‘high’ under Step 2 of the screening process identified in the Methods Document for the TSCA Work Plan for Chemical Assessments. Details of their scores and the reasons for adding them are available in the TSCA Work Plan for Chemical Assessments: 2014 Update (at the end of this document).

Like the group of phthalates included in EPA’s Action Plans (and described earlier), dicyclohexyl phthalate (DCHP) is also covered in the CHAP report on phthalates to CPSC. It also scores high under the methodology of the TSCA Work Plan for Chemical Assessments and will also be evaluated by EPA to determine if there are TSCA-specific scenarios that should be assessed.

Flame Retardants

Triphenyl phosphate (TPP) and isopropylated phenol, phosphate (iPTPP) are being added, though they were not among the chemicals screened in 2012. They came to the Agency’s attention as part of EPA’s analysis of flame retardant chemicals. Because TPP and iPTPP meet the screening criteria detailed in the methodology developed for the TSCA Work Plan for Chemical Assessments, they are being added to the TSCA Work Plan for Chemical Assessments: 2014 Update.

b. Chemicals Removed or Consolidated

Chemicals No Longer in Commerce

Of the original 83 chemicals in the TSCA Work Plan for Chemical Assessments, 67 had no change or had an increase in their potential exposure to people and the environment, and most continue to be on the TSCA Work Plan for Chemical Assessments. Thirteen chemicals are being removed from the TSCA Work Plan for Chemical Assessments because they are not currently in commerce based on data the Agency received under the CDR rule and as part of TRI reporting. Though these chemicals may be toxic, persistent and bioaccumulative, and may have been detected in human or environmental biomonitoring, they no longer present exposure potential from current consumer or commercial use. Thus, they are being removed from the TSCA Work Plan for Chemical Assessments. The chemicals being removed are:

- 1,2,4,5-Tetrachloro-benzene
- 4-Chloro-2-methylaniline (p-Chloro-o-toluidine)
- Benz(a)anthracene
- Dibenz(a,h)anthracene
- Dibromochloromethane
- Dichloroacetic acid
- Hexabromobiphenyl
- Hexachlorocyclohexane
- N-Nitroso-ethylamine
- N-Nitrosodimethylamine
- Pentabromophenol
- Polychlorinated naphthalenes
- Tris(2,3-di bromopropyl) phosphate (TBP)

EPA will continue to review data submitted for these chemicals. If new data indicate that these chemicals have returned to commerce, the Agency will update the TSCA Work Plan for Chemical Assessments.

Special Cases

EPA is removing mercury and mercury compounds from the TSCA Work Plan for Chemical Assessments because their hazards are already well characterized and EPA has a strong risk reduction effort in place. Protecting human health and the environment by reducing exposures to mercury and mercury compounds remains a priority for EPA, and the Agency has taken and continues to take risk management measures for these chemicals, including efforts to implement the Minamata Convention. Therefore, the Agency does not believe that its risk management activities on mercury and mercury compounds need additional assessment under the process for the TSCA Work Plan for Chemical Assessments.

EPA is also removing quartz from the TSCA Work Plan for Chemical Assessments because it presents a hazard only in the context of silicosis from the inhalation of very fine crystalline dust particles, which might occur only during such occupational activities as sandblasting or stone cutting; these potential exposures are specifically controlled under regulations issued by the Occupational Safety and Health Administration.

Polycyclic Aromatic Hydrocarbons

Benzo[a]pyrene is part of a group of polycyclic aromatic hydrocarbons (PAHs). EPA believes this chemical and other PAHs should be assessed as a category rather than as individual chemical substances. The exposure and release information EPA receives about PAHs is generally reported as a mixture of several PAHs, and not as individual chemicals. The Agency will evaluate several PAHs, including benzo[a]pyrene, as part of an assessment of creosote under the TSCA Work Plan for Chemical Assessments. Additional individual PAHs previously on the TSCA Work Plan for Chemical Assessments are being removed since they are no longer in commerce.

c. TSCA Work Plan for Chemical Assessments: 2014 Update

See table on next page.

TSCA Work Plan for Chemicals Assessments: 2014 Update

This document updates the June 2012 TSCA Work Plan for Chemical Assessment. The TSCA Work Plan Chemicals Methods Document explains the hazard, exposure, and persistence/bioaccumulation criteria, the data sources used, and how chemicals were scored. The 2014 Update describes why changes were made.

	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
1	Acetaldehyde	Added 2012	Possible human carcinogen	3	Used in consumer products Present in drinking water, indoor environments, ambient air, and groundwater High reported releases to the environment	3	Low environmental persistence Low bioaccumulation potential	1	Consumer Industrial	Not yet initiated	75-07-0
2	Acrylonitrile	Added 2012	Probable human carcinogen	3	Widely used in consumer products Present in indoor environments, surface water, ambient air, and groundwater High reported releases to the environment	3	Low environmental persistence Low bioaccumulation potential	1	Consumer Dispersive Industrial	Not yet initiated	107-13-1
3	tert-Amyl methyl ether	Added 2012	Chronic toxicity Central nervous system effects Potential carcinogenicity to specific target organs	2	Widely used in consumer products Present in drinking water, surface water, and ambient air Estimated to have moderate releases to the environment	3	Moderate environmental persistence Low bioaccumulation potential	2	Consumer Industrial	Not yet initiated	994-05-8

Notes:

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Chemicals in italics were added in 2014.

Chemicals in bold have final risk assessments.

	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
4	Anthra[2,1,9-def:6,5,10-d'e'f'] diisoquinoline-1,3,8,10(2H,9H)-tetrone (Pigment Violet 29)	Added 2012	Aquatic toxicity	3*	Widely used in consumer products Estimated to have moderate releases to the environment	3	High environmental persistence Low bioaccumulation potential	2	Consumer Industrial	Not yet initiated	81-33-4
5	Antimony & Antimony Compounds	Added 2012	Possible human carcinogen Developmental and reproductive toxicity Acute and chronic toxicity from inhalation exposures	3	Widely used in consumer products Present in biomonitoring, drinking water, surface water, ambient air, and soil High reported releases to the environment	3	High environmental persistence Moderate bioaccumulation potential	3	Consumer Industrial	Final assessment complete August 2014	Category
6	Arsenic & Arsenic Compounds	Added 2012	Known human carcinogens Neurotoxicity Central nervous system effects Acute and chronic toxicity from inhalation exposures	3	Widely used in consumer products Present in biomonitoring, drinking water, surface water, ambient air, soil High reported releases to the environment	2	High environmental persistence Low bioaccumulation potential	2	Consumer Industrial	Not yet initiated	Category
7	Asbestos & Asbestos-like Fibers	Added 2012	Known human carcinogens Acute and chronic toxicity from inhalation exposures	3	Widely used in consumer products Present in indoor environments	3	High environmental persistence Low bioaccumulation potential	2	Consumer Industrial	Not yet initiated	Category

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	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
8	<i>Barium Carbonate</i>	<i>Added 2014</i>	<i>Acute toxicity</i>	3	<i>Used to manufacture paper, special glass, ceramics, bricks, enamels, paints, rubber, electrodes, and barium salts; used in oil well drilling, especially through gypsum; used in brines as a precipitant</i>	3	<i>Low environmental persistence Low bioaccumulation potential</i>	1	<i>Consumer Industrial</i>	<i>Not yet initiated</i>	<i>513-77-9</i>
9	Benzenamine	Added 2012	Probable human carcinogen	3	Used in consumer products Present in ambient air, groundwater, and soil High reported releases to the environment	3	Low environmental persistence Low bioaccumulation potential	1	Consumer Industrial	Not yet initiated	62-53-3
10	Benzene	Added 2012	Known human carcinogen	3	Widely used in consumer products Present in biomonitoring, drinking water, indoor environments, surface water, ambient air, groundwater, soil High reported releases to the environment	3	Low environmental persistence Low bioaccumulation potential	1	Consumer Dispersive Industrial	Not yet initiated	71-43-2

Notes:

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	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
11	<i>Bisphenol A (BPA)</i>	<i>Added 2014</i>	<i>Reproductive toxicity</i>	3	<i>Electrical and electronics equipment, optical media, linings in drinking water pipes, thermal paper coatings, automotive and transportation equipment</i>	3	<i>Low environmental persistence Low bioaccumulation potential</i>	1	<i>Consumer Industrial</i>	<i>Not yet initiated</i>	<i>80-05-7</i>
12	1-Bromopropane	Added 2012	Possible human carcinogen	3	Widely used in consumer products Present in drinking water, indoor environments, surface water, ambient air, groundwater, soil Estimated to have high releases to the environment	3	Low environmental persistence Low bioaccumulation potential	1	Consumer Dispersive Industrial	Initiated 2013	106-94-5
13	<i>1,3-Butadiene</i>	<i>Added 2014</i>	<i>Known human carcinogen</i>	3	<i>Major commodity product of the petrochemical industry, usually produced as a by-product of ethylene Increasing usage in the formation of rocket fuels, plastics, resins, and commercial latex paints Reported uses in plastic products, textiles, apparel</i>	3	<i>Low environmental persistence Low bioaccumulation potential</i>	1	<i>Consumer Industrial</i>	<i>Not yet initiated</i>	<i>106-99-0</i>

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	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
14	Butanamide, 2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(4-chloro-2,5-dimethoxyphenyl)-3-oxo- (Pigment Yellow 83)	Added 2012	Acute toxicity	2	Used in consumer products Estimated to have high releases to the environment	3	High environmental persistence High bioaccumulation potential	3	Consumer Industrial	Not yet initiated	5567-15-7
15	Butanamide, 2-[(4-methoxy-2-nitrophenyl)azo]-N-(2-methoxyphenyl)-3-oxo- (Pigment Yellow 65)	Added 2012	Aquatic toxicity	3*	Widely used in consumer products Estimated to have high releases to the environment	3	High environmental persistence Low bioaccumulation potential	2	Consumer	Not yet initiated	6528-34-3
16	<i>Butyl benzyl phthalate (BBP)</i> <i>1,2-Benzene-dicarboxylic acid, 1-butyl 2(phenylmethyl) ester</i>	<i>Added 2014</i>	<i>Chronic aquatic toxicity</i>	3	<i>Most widely used stain-resistant plasticizer in poly(vinyl chloride)</i> <i>Widely used in vinyl tile</i> <i>Used in commercial/ industrial products</i>	3	<i>Low environmental persistence</i> <i>Low bioaccumulation potential</i>	1	<i>Industrial</i> <i>Commercial</i> <i>Consumer</i>	<i>Not yet initiated</i>	<i>85-68-7</i>
17	4-sec-Butyl-2,6-di-tert-butylphenol	Added 2012	Chronic toxicity	2	Widely used in consumer products Estimated to have moderate releases to the environment	3	Moderate environmental persistence Moderate bioaccumulation potential	2	Consumer Industrial	Not yet initiated	17540-75-9

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	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
18	Cadmium & Cadmium Compounds	Added 2012	Known human carcinogens Chronic cardiovascular, renal and musculoskeletal effects Acute and chronic toxicity from inhalation exposures	3	Widely used in consumer products Present in biomonitoring, drinking water, surface water, ambient air, soil High reported releases to the environment	3	High environmental persistence Moderate bioaccumulation potential	3	Consumer Industrial	Not yet initiated	Category
19	Carbon tetrachloride	Added 2012	Probable human carcinogen	3	Used in commercial/industrial products Present in biomonitoring, drinking water, indoor environments, surface water, ambient air, groundwater, soil High reported releases to the environment	3	High environmental persistence Low bioaccumulation potential	2	Industrial	Not yet initiated	56-23-5
20	Chromium & Chromium Compounds	Added 2012	Known human carcinogens Reproductive toxicity Developmental toxicity Acute and chronic toxicity from inhalation exposures	3	Used in commercial/industrial products Present in ambient air High reported releases to the environment	1	High environmental persistence Moderate bioaccumulation potential	3	Industrial	Not yet initiated	Category

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	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
21	Cobalt & Cobalt Compounds	Added 2012	Cardiovascular and central nervous system effects Acute and chronic toxicity from inhalation exposures	3	Used in consumer products Present in biomonitoring, surface water, ambient air, soil High reported releases to the environment	3	High environmental persistence Moderate bioaccumulation potential	3	Industrial	Not yet initiated	Category
22	Creosotes	Added 2012	Probable human carcinogen	3	Widely used in consumer products Present in groundwater, soil High reported releases to the environment	3	Moderate environmental persistence Moderate bioaccumulation potential	2	Industrial	Not yet initiated	8001-58-9
23	Cyanide Compounds (Limited to dissociable compounds)	Added 2012	Neurotoxicity Reproductive toxicity Central nervous system effects	3	Widely used in consumer products Present in drinking water, surface water, and soil High reported releases to the environment	3	Moderate environmental persistence Low bioaccumulation potential	2	Consumer Industrial	Not yet initiated	Category

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	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
24	<i>Decabromodiphenyl ethers (DecaBDE)</i>	<i>Added 2014</i>	<i>Developmental toxicity Aquatic toxicity</i>	3	<i>Has been widely used in textiles, plastics and polyurethane foam as flame retardants. Articles which were often treated with PBDEs include textiles such as carpets and upholstery fabric; cushions; plastics used as components in electrical appliances, devices, and equipment in consumer, commercial, and industrial use; and building and construction materials.</i>	3	<i>High environmental persistence High bioaccumulation potential</i>	3	<i>Consumer Commercial Industrial</i>	<i>Not yet initiated</i>	1163-19-5
25	<i>Dibutyl phthalate (DBP) (1,2-Benzene-dicarboxylic acid, 1,2-dibutyl ester)</i>	<i>Added 2014</i>	<i>Chronic aquatic toxicity</i>	3	<i>Used in cosmetics, medical supplies, textiles, propellant, food packaging, dental material, and paper. Used in the manufacture of plastics, paints, wood varnishes, and lacquers.</i>	3	<i>Low environmental persistence Low bioaccumulation potential</i>	1	<i>Industrial Commercial Consumer</i>	<i>Not yet initiated</i>	84-74-2

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	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
26	o-Dichlorobenzene	Added 2012	Chronic toxicity	2	Widely used in consumer products Present in biomonitoring, drinking water, indoor environments, surface water, ambient air and groundwater Moderate reported releases to the environment	3	Moderate environmental persistence Low bioaccumulation potential	2	Consumer Dispersive Industrial	Not yet initiated	95-50-1
27	p-Dichlorobenzene	Added 2012	Possible human carcinogen	3	Widely used in consumer products Present in biomonitoring, drinking water, ambient air, surface water, groundwater, soil Moderate reported releases to the environment	3	Moderate environmental persistence Low bioaccumulation potential	2	Consumer Industrial	Not yet initiated	106-46-7
28	<i>3,3'-Dichlorobenzidine</i>	<i>Added 2014</i>	<i>Probable human carcinogen</i>	3	<i>Used in the production of dyes</i>	2	<i>Moderate environmental persistence Low bioaccumulation potential</i>	2	<i>Industrial</i>	<i>Not yet initiated</i>	<i>91-94-1</i>
29	3,3'-Dichlorobenzidine dihydrochloride	Added 2012	Probable human carcinogen	3	Used in consumer products Relatively small reported releases to the environment	2	Moderate environmental persistence Low bioaccumulation potential	2	Consumer Industrial	Not yet initiated	612-83-9

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	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
30	1,1-Dichloroethane	Added 2012	Mutagenicity	2	Used in consumer products Present in biomonitoring, drinking water, surface water, ambient air, groundwater, soil Moderate reported releases to the environment	3	Moderate environmental persistence Low bioaccumulation potential	2	Consumer Industrial	Not yet initiated	75-34-3
31	1,2-Dichloroethane	Added 2012	Possible human carcinogen	3	Used in commercial/industrial products Present in biomonitoring, drinking water, indoor environments, surface water, ambient air, groundwater, soil High reported releases to the environment	3	Moderate environmental persistence Low bioaccumulation potential	2	Consumer Industrial	Not yet initiated	107-06-2
32	trans-1,2-Dichloroethylene	Added 2012	Chronic toxicity	2	Widely used in consumer products Present in biomonitoring, drinking water, surface water, ambient air, groundwater, soil	3	Moderate environmental persistence Low bioaccumulation potential	2	Consumer Industrial	Not yet initiated	156-60-5

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	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
33	1,2-Dichloropropane	Added 2012	Acute mammalian toxicity	2	Used in consumer products Present in biomonitoring, drinking water, indoor environments, surface water, ambient air, groundwater, soil High reported releases to the environment	3	High environmental persistence Low bioaccumulation potential	2	Consumer Industrial	Not yet initiated	78-87-5
34	<i>Dicyclohexyl phthalate</i>	<i>Added 2014</i>	<i>Acute and chronic aquatic toxicity</i>	<i>3*</i>	<i>Plasticizer; heat sealer for cellulose; heat sealer for paper finishes (labels, pharmaceutical labels, price labels)</i>	3	<i>Low environmental persistence</i> <i>Low bioaccumulation potential</i>	1	<i>Consumer</i> <i>Industrial</i>	<i>Not yet initiated</i>	<i>84-61-7</i>
35	<i>Di-ethylhexyl phthalate (DEHP)</i> <i>(1,2-Benzene-dicarboxylic acid, 1,2-bis(2-ethylhexyl) ester)</i>	<i>Added 2014</i>	<i>Chronic aquatic toxicity</i>	3	<i>Widely used in medical devices, such as intravenous tubing and blood bags</i> <i>Widely used in consumer products and construction-related products</i>	3	<i>Low environmental persistence</i> <i>Low bioaccumulation potential</i>	1	<i>Industrial</i> <i>Commercial</i> <i>Consumer</i>	<i>Not yet initiated</i>	<i>117-81-7</i>

Notes:

An asterisk (*) in the Hazard Score column indicates the score is based solely on environmental toxicity.

Chemicals in italics were added in 2014.

Chemicals in bold have final risk assessments.

	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
36	<i>Di-isobutyl phthalate (DIBP)</i> <i>(1,2-Benzene-dicarboxylic acid, 1,2-bis-(2methylpropyl) ester)</i>	<i>Added 2014</i>	<i>Reproductive toxicity</i>	1	<i>Specialty plasticizer often combined with other phthalates</i> <i>Used in printing inks</i> <i>Used in nitrocellulose, cellulose ether, and polyacrylate and polyacetate dispersions</i>	2	<i>Low environmental persistence</i> <i>Low bioaccumulation potential</i>	1	<i>Industrial</i> <i>Commercial</i> <i>Consumer</i>	<i>Not yet initiated</i>	84-69-5
37	<i>Di-isodecyl phthalate (DIDP)</i> <i>(1,2-Benzene-dicarboxylic acid, 1,2-diisodecyl ester)</i>	<i>Added 2014</i>	<i>Developmental toxicity</i>	3	<i>Used in cosmetics, medical supplies, textiles, propellant, food packaging, dental material, and paper</i> <i>Used in the manufacture of plastics, paints, wood varnishes, and lacquers</i>	3	<i>Low environmental persistence</i> <i>Low bioaccumulation potential</i>	1	<i>Industrial</i> <i>Commercial</i> <i>Consumer</i>	<i>Not yet initiated</i>	26761-40-0
38	<i>Di-isononyl phthalate (DINP)</i> <i>(1,2-Benzene-dicarboxylic acid, 1,2-diisononyl ester)</i>	<i>Added 2014</i>	<i>Developmental toxicity</i>	2	<i>Commonly used as plasticizer in poly(vinyl chloride) applications</i>	3	<i>Low environmental persistence</i> <i>Low bioaccumulation potential</i>	1	<i>Industrial</i> <i>Commercial</i> <i>Consumer</i>	<i>Not yet initiated</i>	28553-12-0
39	1,2-Dimethoxyethane (Monoglyme)	Added 2012	Reproductive toxicity Developmental toxicity Chronic toxicity	3	Widely used in consumer products Estimated to have high releases to the environment	3	Low environmental persistence Low bioaccumulation potential	1	Consumer Industrial	Not yet initiated	110-71-4

Notes:

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	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
40	<i>2-Dimethylaminoethanol</i>	<i>Added 2014</i>	<i>Acute toxicity</i>	3	<i>Intermediate in the synthesis of dyestuffs, textile, auxiliaries, pharmaceuticals and corrosion inhibitors, emulsifiers in paints and coatings Some uses in adhesives and sealants</i>	3	<i>Low environmental persistence Low bioaccumulation potential</i>	1	<i>Industrial</i>	<i>Not yet initiated</i>	<i>108-01-0</i>
41	<i>Di-n-octyl phthalate (DnOP) (1,2-Benzene-dicarboxylic acid, 1,2-dioctyl ester)</i>	<i>Added 2014</i>	<i>Reproductive toxicity</i>	2	<i>Commonly used as plasticizer in poly(vinyl chloride) applications</i>	3	<i>Low environmental persistence Low bioaccumulation potential</i>	1	<i>Industrial Commercial Consumer</i>	<i>Not yet initiated</i>	<i>117-84-0</i>
42	1,4-Dioxane	Added 2012	Possible human carcinogen	3	Widely used in consumer products Present in groundwater, ambient air and indoor environments High reported releases to the environment	3	Low environmental persistence Low bioaccumulation potential	1	Consumer Dispersive Industrial	Initiated 2014	123-91-1
43	Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,5,5-tetramethyl-2-naphthalenyl)-	Added 2012	Aquatic toxicity	3*	Widely used in consumer products Estimated to have high releases to the environment	3	Moderate environmental persistence High bioaccumulation potential	3	Consumer Industrial	Not yet initiated	54464-59-4
44	Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-	Added 2012	Aquatic toxicity	1*	Widely used in consumer products Estimated to have high releases to the environment	3	Moderate environmental persistence High bioaccumulation potential	3	Consumer Industrial	Not yet initiated	54464-57-2

Notes:

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	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
45	Ethanone, 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-	Added 2012	Aquatic toxicity	3*	Widely used in consumer products Estimated to have high releases to the environment	3	Moderate environmental persistence Moderate bioaccumulation potential	2	Consumer Industrial	Not yet initiated	68155-67-9
46	Ethanone, 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-	Added 2012	Aquatic toxicity	3*	Widely used in consumer products Estimated to have high releases to the environment	3	Moderate environmental persistence Moderate bioaccumulation potential	2	Consumer Industrial	Not yet initiated	68155-66-8
47	Ethylbenzene	Added 2012	Possible human carcinogen	3	Used in consumer products Present in biomonitoring, drinking water, indoor environments, surface water, ambient air, groundwater, soil High reported releases to the environment	3	Low environmental persistence Low bioaccumulation potential	1	Consumer Industrial	Not yet initiated	100-41-4
48	Ethylene dibromide	Added 2012	Probable human carcinogen	3	Used in commercial/industrial products Present in drinking water, indoor environments, surface water, ambient air, groundwater, soil Relatively small reported releases to the environment	2	Moderate environmental persistence Low bioaccumulation potential	2	Consumer Industrial	Not yet initiated	106-93-4

Notes:

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Chemicals in italics were added in 2014.

Chemicals in bold have final risk assessments.

	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
49	bis(2-Ethylhexyl) adipate	Added 2012	Possible human carcinogen	3	Widely used in consumer products Present in drinking water, and indoor environments Estimated to have high releases to the environment	3	Low environmental persistence Low bioaccumulation potential	1	Consumer Industrial	Not yet initiated	103-23-1
50	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (TBB)	Added 2012	Developmental toxicity Acute and chronic aquatic toxicity	2	Used in consumer products Present in indoor environments and soil	3	Moderate environmental persistence Moderate bioaccumulation potential	2	Consumer Industrial	Initiated 2013	183658-27-7
51	bis(2-Ethylhexyl) - 3,4,5,6-tetrabromophthalate (TBPH)	Added 2012	Developmental toxicity Acute and chronic aquatic toxicity	2	Used in consumer products Present in indoor environments Estimated to have moderate releases to the environment	3	Moderate environmental persistence Moderate bioaccumulation potential	2	Consumer Industrial	Initiated 2013	26040-51-7
52	Formaldehyde	Added 2012	Known human carcinogen	3	Used in consumer products Present in indoor environments, drinking water, ambient air, and groundwater High reported releases to the environment	3	Low environmental persistence Low bioaccumulation potential	1	Consumer Industrial	Not yet initiated	50-00-0

Notes:

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Chemicals in bold have final risk assessments.

	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
53	<i>2,5-Furandione</i>	<i>Added 2014</i>	<i>Acute and chronic aquatic toxicity</i>	<i>3*</i>	<i>Chemical intermediate for thousands of substances including lubricating oil additives, personal care products, adhesives, floor polishes, water treatment chemicals, detergents, paper sizing, epoxy curing agents, and leather treatment</i>	3	<i>Low environmental persistence Low bioaccumulation potential</i>	1	<i>Industrial</i>	<i>Not yet initiated</i>	<i>108-31-6</i>
54	<i>Hexabromocyclododecane (HBCD)</i>	<i>Added 2014</i>	<i>Acute aquatic toxicity</i>	<i>3*</i>	<i>Flame retardant in extruded polystyrene foam, textiles, and electrical and electronic appliances</i>	3	<i>High environmental persistence High bioaccumulation potential</i>	3	<i>Consumer</i>	<i>Initiated 2013</i>	<i>3194-55-6</i>
55	Hexachlorobutadiene	Added 2012	Possible human carcinogen	3	Present in indoor environments, surface water, ambient air, groundwater, soil Relatively small reported releases to the environment	2	High environmental persistence High bioaccumulation potential	3	Industrial	Not yet initiated	87-68-3
56	1-Hexadecanol	Added 2012	Chronic toxicity	2	Widely used in consumer products Present in surface water, ambient air, and soil Estimated to have high releases to the environment	3	Low environmental persistence Moderate bioaccumulation potential	2	Consumer Dispersive Industrial	Not yet initiated	36653-82-4

Notes:

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*Chemicals in italics were added in 2014.***Chemicals in bold have final risk assessments.**

	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
57	1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta [g]-2-benzopyran (HHCB)	Added 2012	Developmental toxicity	2	Widely used in consumer products Present in biomonitoring Estimated to have high releases to the environment	3	Moderate environmental persistence Moderate bioaccumulation potential	2	Consumer Dispersive	Final assessment complete August 2014	1222-05-5
58	<i>2-Hydroxy-4-(octyloxy) benzophenone</i>	Added 2014	<i>Acute and chronic aquatic toxicity</i>	3*	<i>UV stabilizer for polymers; used in rubber and plastic products Numerous food packaging uses (especially as a stabilizer for petroleum wax)</i>	3	<i>Low environmental persistence Low bioaccumulation potential</i>	1	<i>Consumer Commercial</i>	<i>Not yet initiated</i>	<i>1843-05-6</i>
59	Lead & Lead Compounds	Added 2012	Neurotoxicity Developmental toxicity Reproductive toxicity	3	Widely used in consumer products Present in biomonitoring, drinking water, indoor environments, surface water, ambient air, soil High reported releases to the environment	3	High environmental persistence Moderate bioaccumulation potential	3	Consumer Industrial	Not yet initiated	Category
60	Long-chain chlorinated paraffins (C18-20)	Added 2012	Chronic toxicity to target organs including the liver, kidneys and thyroid Aquatic toxicity	2	Present in biomonitoring, surface water, and soil Used in commercial/ industrial products	2	High environmental persistence High bioaccumulation potential	3	Industrial Dispersive	Initiated 2012	Category

Notes:

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Chemicals in italics were added in 2014.

Chemicals in bold have final risk assessments.

	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
61	Medium-chain chlorinated paraffins (C14-17)	Added 2012	Chronic toxicity to target organs including the liver, kidneys and thyroid Aquatic toxicity	2	Used in consumer products Estimated to have high releases to the environment	2	High environmental persistence High bioaccumulation potential	3	Consumer Dispersive Industrial	Initiated 2012	Category
62	Methylene chloride	Added 2012	Probable human carcinogen	3	Widely used in consumer products Present in drinking water, indoor environments, ambient air, groundwater, and soil High reported	3	Low environmental persistence Low bioaccumulation potential	1	Consumer Industrial	Final assessment complete August 2014. Pursuing risk reduction	75-09-2
63	4,4'-Methylene bis(2-chloroaniline)	Added 2012	Known human carcinogen	3	Widely used in consumer products Present only in ambient air Relatively small reported releases to the environment	2	Moderate environmental persistence Low bioaccumulation potential	2	Consumer Industrial	Not yet initiated	101-14-4
64	<i>4,4'-(1-Methylethylidene)bis[2,6-dibromophenol] (TBBPA)</i>	<i>Added 2014</i>	<i>Acute aquatic toxicity</i>	<i>2*</i>	<i>Flame retardant in epoxy resin circuit boards and in electronic enclosures</i>	3	<i>High environmental persistence Low bioaccumulation potential</i>	2	<i>Consumer</i>	<i>Not yet initiated</i>	<i>79-94-7</i>
65	N-Methyl-2-pyrrolidone (NMP)	Added 2012	Reproductive toxicity	3	Widely used in consumer products Present in drinking water and indoor environments High reported releases to the environment	3	Low environmental persistence Low bioaccumulation potential	1	Consumer Industrial	Initiated 2012	872-50-4

Notes:

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	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
66	<i>Molybdenum and Molybdenum Compounds</i>	<i>Added 2014</i>	<i>Chronic toxicity</i>	<i>1</i>	<i>Alloying agent in cast iron, steel, and super alloys to increase hardenability, strength, toughness, and corrosion resistance Used for electrical lead-in (in halogen lamps and electric furnaces) and wear-resistant coatings for machine & engine parts Also used in glass and nuclear energy industries</i>	<i>3</i>	<i>High environmental persistence Moderate bioaccumulation potential</i>	<i>3</i>	<i>Consumer Industrial</i>	<i>Not yet initiated</i>	<i>Category</i>
67	Naphthalene	Added 2012	Possible human carcinogen	3	Widely used in consumer products Present in biomonitoring, drinking water, indoor environments, surface water, ambient air, groundwater, soil High reported releases to the environment	3	Low environmental persistence Low bioaccumulation potential	1	Consumer Industrial	Not yet initiated	91-20-3
68	2-Naphthalenecarboxylic acid, 4-[(4-chloro-5-methyl-2-sulphophenyl)azo]-3-hydroxy-, calcium salt (1:1) (Pigment Red 52)	Added 2012	Aquatic toxicity	3*	Widely used in consumer products Estimated to have moderate releases to the environment	2	High environmental persistence Low bioaccumulation potential	2	Consumer Industrial	Not yet initiated	17852-99-2

Notes:

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*Chemicals in italics were added in 2014.***Chemicals in bold have final risk assessments.**

	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
69	Nickel & Nickel Compounds	Added 2012	Known human carcinogens Acute and chronic toxicity from inhalation exposures	3	Used in consumer products Present in ambient air High reported releases to the environment	2	High environmental persistence Low bioaccumulation potential	2	Consumer Industrial	Not yet initiated	Category
70	N-Nitroso-diphenylamine	Added 2012	Probable human carcinogen	3	Used in consumer products Present in surface water, groundwater, soil Relatively small reported releases to the environment	2	Moderate environmental persistence Low bioaccumulation potential	2	Consumer Industrial	Not yet initiated	86-30-6
71	<i>Nonylphenol and Nonylphenol Ethoxylates (NP/NPEs)</i>	Added 2014	<i>Reproductive toxicity Developmental toxicity Aquatic toxicity</i>	3	<i>In industrial detergents as well as other cleaners, degreasers (some for consumer use), and dry cleaning Industrial uses include petroleum dispersants, emulsifiers, wetting agents, adhesives, paper and textile processing formulations, prewash spotters, metalworking fluids, some paints and coatings, and dust control agents</i>	3	<i>Moderate environmental persistence Moderate bioaccumulation potential</i>	2	<i>Commercial Industrial</i>	Not yet initiated	Category

Notes:

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Chemicals in italics were added in 2014.

Chemicals in bold have final risk assessments.

	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
72	Octamethylcyclotetra-siloxane (D4)	Added 2012	Reproductive toxicity	2	Used in consumer products Present in biomonitoring, drinking water, indoor environments, and surface water Estimated to have high releases to the environment	3	Moderate environmental persistence High bioaccumulation potential	3	Consumer Dispersive Industrial	Initiated 2012	556-67-2
73	4-tert-Octylphenol (4-(1,1,3,3-Tetramethylbutyl)-phenol)	Added 2012	Aquatic toxicity	3*	Used in consumer products Present in biomonitoring and drinking water Estimated to have moderate releases to the environment	3	High environmental persistence Moderate bioaccumulation potential	2	Consumer Industrial	Not yet initiated	140-66-9
74	p,p'-Oxybis(benzenesulfonylhydrazide)	Added 2012	Reproductive toxicity Mutagenicity	3	Used in consumer products Estimated to have moderate releases to the environment	3	Moderate environmental persistence Low bioaccumulation potential	2	Consumer	Not yet initiated	80-51-3
75	<i>Pentachlorothio-phenol</i>	<i>Added 2014</i>	<i>Acute and chronic toxicity</i>	3	<i>A mercaptan (sulfur) cross-linking agent that makes rubber more pliable</i>	1	<i>High environmental persistence High bioaccumulation potential</i>	3	<i>Industrial</i>	<i>Not yet initiated</i>	<i>133-49-3</i>
76	<i>Phenol, isopropylated, phosphate (3:1) (iPTPP)</i>	<i>Added 2014</i>	<i>Neurotoxicity Aquatic toxicity</i>	3	<i>Widely used as a flame retardant</i>	3	<i>High environmental persistence High bioaccumulation potential</i>	3	<i>Consumer Industrial</i>	<i>Not yet initiated</i>	<i>68937-41-7</i>

Notes:

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	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
77	<i>Phosphoric acid, triphenyl ester (TPP)</i>	<i>Added 2014</i>	<i>Acute and chronic aquatic toxicity</i>	3*	<i>Widely used as a flame retardant in polyurethane foam, PVC, printed wiring boards, children's products Applications in polymers in high-impact polystyrenes, epoxy resins, and adhesives (minor use)</i>	3	<i>Moderate environmental persistence Moderate bioaccumulation potential</i>	2	<i>Consumer Industrial</i>	<i>Not yet initiated</i>	115-86-6
78	Phthalic anhydride	Added 2012	Respiratory sensitizer	3	Widely used in consumer products Present in groundwater and ambient air High reported releases to the environment	3	Low environmental persistence Low bioaccumulation potential	1	Consumer Industrial	Not yet initiated	85-44-9
79	Styrene	Added 2012	Possible human carcinogen Central nervous system effects	3	Widely used in consumer products Present in biomonitoring, drinking water, indoor environments, surface water, ambient air, and groundwater, soil High reported releases to the environment	3	Low environmental persistence Low bioaccumulation potential	1	Consumer Industrial	Not yet initiated	100-42-5

Notes:

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	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
80	Tetrachloroethylene (PERC)	Added 2012	Probable human carcinogen	3	Widely used in consumer products Present in biomonitoring, drinking water, indoor environments, ambient air, groundwater, soil High reported releases to the environment	3	High environmental persistence Low bioaccumulation potential	2	Consumer Dispersive Industrial	Not yet initiated	127-18-4
81	Tribromomethane (Bromoform)	Added 2012	Probable human carcinogen	3	Used in consumer products Present in biomonitoring, drinking water, surface water, ambient air, and groundwater Moderate reported releases to the environment	3	Moderate environmental persistence Low bioaccumulation potential	2	Consumer Industrial	Not yet initiated	75-25-2
82	1,1,2-Trichloroethane	Added 2012	Possible human carcinogen	3	Widely used consumer products Present in biomonitoring, drinking water, surface water, ambient air, groundwater, and soil Moderate reported releases to the environment	2	High environmental persistence Low bioaccumulation potential	2	Dispersive	Not yet initiated	79-00-5

Notes:

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	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
83	Trichloroethylene (TCE)	Added 2012	Probable human carcinogen	3	Widely used in consumer products Present in drinking water, indoor environments, surface water, ambient air, groundwater, and soil	3	High environmental persistence Low bioaccumulation potential	2	Consumer Industrial	Final assessment complete June 2014. Pursuing risk reduction	79-01-6
84	Triglycidyl isocyanurate	Added 2012	Reproductive toxicity Mutagenicity Acute toxicity from inhalation exposures	3	Widely used in consumer products Estimated to have high releases to the environment	3	Moderate environmental persistence Low bioaccumulation potential	1	Consumer Industrial	Not yet initiated	2451-62-9
85	Tris(2-chloroethyl) phosphate (TCEP)	Added 2012	Mutagenicity Limited evidence of carcinogenicity	2	Widely used in consumer products Present in drinking water, and indoor environments Estimated to have moderate releases to the environment	2	Moderate environmental persistence Low bioaccumulation potential	2	Consumer Industrial	Initiated 2013	115-96-8
86	2,4,6-Tris-(tert-butyl)phenol	Added 2012	Chronic toxicity and liver effects	2	Widely used in consumer products Present in indoor environments Estimated to have moderate releases to the environment	2	Moderate environmental persistence High bioaccumulation potential	3	Consumer Industrial	Not yet initiated	732-26-3

Notes:

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	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
87	Vinyl chloride	Added 2012	Known human carcinogen	3	Used in consumer products Present in drinking water, indoor environments, surface water, ambient air, groundwater, soil High reported releases to the environment	3	Moderate environmental persistence Low bioaccumulation potential	2	Consumer Industrial	Not yet initiated	75-01-4
88	m-Xylene	Added 2012	Reproductive toxicity Developmental toxicity	3	Widely used in consumer products Present in biomonitoring, drinking water, surface water, ambient air, groundwater, soil High reported releases to the environment	3	Low environmental persistence Low bioaccumulation potential	1	Consumer Industrial	Not yet initiated	108-38-3
89	o-Xylene	Added 2012	Chronic toxicity	3	Used in consumer products Present in biomonitoring, drinking water, indoor environments, surface water, ambient air, groundwater, soil High reported releases to the environment	3	Low environmental persistence Low bioaccumulation potential	1	Consumer Industrial	Not yet initiated	95-47-6

Notes:

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	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
90	p-Xylene	Added 2012	Reproductive toxicity	3	Widely used in consumer products Present in biomonitoring, drinking water, surface water, ambient air, groundwater, soil High reported releases to the environment	3	Low environmental persistence Low bioaccumulation potential	1	Consumer Industrial	Not yet initiated	106-42-3

TSCA Work Plan Chemicals for Assessment: 2014 Update - Chemicals Removed or Consolidated

	Chemical Name	When was the chemical added and removed?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status or Other Action	CASRN
1	Benz[a]anthracene	Added 2012 Removed 2014	Probable human carcinogen	3	Present in biomonitoring, indoor environments, surface water, ambient air, groundwater, and soil	2	High environmental persistence Moderate bioaccumulation potential	3	Dispersive Industrial	No assessment	56-55-3
2	p-Chloro-o-toluidine	Added 2012 Removed 2014	Probable human carcinogen	3	Present in biomonitoring, surface water, and soil	2	Moderate environmental persistence Low bioaccumulation potential	2	Industrial	No assessment	95-69-2
3	Dibenz(a,h)anthracene	Added 2012 Removed 2014	Probable human carcinogen	3	Present in indoor environments, surface water, ambient air, groundwater, and soil	2	Moderate environmental persistence Moderate bioaccumulation potential	2	Dispersive	No assessment	53-70-3

Notes:

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Chemicals in bold have final risk assessments.

	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
4	Dibromochloromethane	Added 2012 Removed 2014	Possible human carcinogen	3	Present in biomonitoring, surface water, ambient air, and soil	2	Moderate environmental persistence Low bioaccumulation potential	2	Industrial	No assessment	124-48-1
5	Dichloroacetic acid	Added 2012 Removed 2014	Possible human carcinogen	3	Used in consumer products Present in drinking water	3	Low environmental persistence Low bioaccumulation potential	1	Consumer Industrial	No assessment	79-43-6
6	Hexabromobiphenyl	Added 2012 Removed 2014	Possible human carcinogen	3	Used in consumer products Present in ambient air and soil	2	High environmental persistence High bioaccumulation potential	3	Industrial	No assessment	36355-01-8
7	Hexachlorocyclohexane	Added 2012 Removed 2014	Possible human carcinogen	3	Present in biomonitoring and surface water	2	High environmental persistence Moderate bioaccumulation potential	3	Industrial	No assessment	608-73-1
8	Mercury & Mercury Compounds	Added 2012 Removed 2014	Neurotoxicity Developmental toxicity Chronic nervous system and hepatic effects	3	Widely used in consumer products Present in biomonitoring, drinking water, indoor environments, surface water, ambient air, soil High reported releases to the environment	3	High environmental persistence Moderate bioaccumulation potential	3	Consumer Industrial	No assessment	Category

Notes:

An asterisk (*) in the Hazard Score column indicates the score is based solely on environmental toxicity.

Chemicals in italics were added in 2014.

Chemicals in bold have final risk assessments.

	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
9	N-Nitrosodiethylamine	Added 2012 Removed 2014	Probable human carcinogen	3	Present in biomonitoring, surface water, and ambient air, groundwater, and soil Relatively small reported releases to the environment	2	Moderate environmental persistence Low bioaccumulation potential	2	Industrial	No assessment	55-18-5
10	N-Nitrosodimethylamine	Added 2012 Removed 2014	Probable human carcinogen	3	Widely used in consumer products Present in drinking water, surface water, ambient air, groundwater, and soil	3	Moderate environmental persistence Low bioaccumulation potential	2	Consumer Dispersive Industrial	No assessment	62-75-9
11	Pentabromophenol	Added 2012 Removed 2014	Acute toxicity	3	Used in consumer products Present in surface water and soil	2	High environmental persistence Low bioaccumulation potential	2	Industrial	No assessment	608-71-9
12	Polychlorinated naphthalenes	Added 2012 Removed 2014	Acute dermal toxicity Chronic liver effects	1	Widely used in consumer products Present in biomonitoring	3	High environmental persistence High bioaccumulation potential	3	Industrial	No assessment	Category
13	Quartz (Respirable forms only)	Added 2012 Removed 2014	Probable human carcinogen	3	Widely used in consumer products Present in drinking water Estimated to have high releases to the environment	3	High environmental persistence Low bioaccumulation potential	2	Consumer Industrial	No assessment	14808-60-7

Notes:

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Chemicals in bold have final risk assessments.

	Chemical Name	When was the chemical added?	Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score	Use	Risk Assessment Status and Other Actions	CASRN
14	1,2,4,5-Tetrachlorobenzene	Added 2012 Removed 2014	Chronic toxicity	3	Present in ground water and soil	1	Moderate environmental persistence High bioaccumulation potential	3	Industrial	No assessment	95-94-3
15	Tris(2,3-dibromopropyl) phosphate (<i>TBP</i>)	Added 2012 Removed 2014	Probable human carcinogen	3	Widely used in consumer products Relatively small reported releases to the environment	0	Moderate environmental persistence Low bioaccumulation potential	2	Consumer	No assessment	126-72-7
16	Benzo[a]pyrene	Added 2012 Consolidated 2014	Known human carcinogen	3	Present in biomonitoring, drinking water, indoor environments, surface water, ambient air, groundwater, and soil	2	High environmental persistence Moderate bioaccumulation potential	3	Dispersive Industrial	No assessment	50-32-8

Notes:

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