

First 10 Chemicals Selected by EPA for Review under New TSCA[†]

Chemical Name	CASRN	Data from EPA's 2014 Work Plan Chemical Assessment Update						Examples of uses	2011 National Production Volume (lbs)
		Hazard Criteria Met	Hazard Score [‡]	Exposure Criteria Met	Exposure Score [‡]	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score [‡]		
1,4-Dioxane	123-91-1	Possible human carcinogen	High	Widely used in consumer products Present in groundwater, ambient air and indoor environments High reported releases to the environment	High	Low environmental persistence Low bioaccumulation potential	Low	Dyes, varnishes, waxes, impurity in some industrial and consumer products	Withheld
1-Bromopropane (aka n-propyl bromide)	106-94-5	Possible human carcinogen	High	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	High	Low environmental persistence Low bioaccumulation potential	Low	Vapor degreasing, aerosol adhesives, foam cushions, dry cleaning	15,348,727
Asbestos	Category	Known human carcinogen Acute and chronic toxicity from inhalation exposures	High	Widely used in consumer products Present in indoor environments	High	High environmental persistence Low bioaccumulation potential	Medium	Insulation, brake pads, chlor-alkali industry	87,000
Carbon tetrachloride	56-23-5	Probable human carcinogen	High	Used in commercial/industrial products Present in biomonitoring, drinking water, indoor environments, surface water, ambient air, groundwater, soil High reported releases to the environment	High	High environmental persistence Low bioaccumulation potential	Medium	Chemical intermediate, solvent for commercial and industrial uses	149,927,241
Cyclic Aliphatic Bromide Cluster (HBCD)	3194-55-6	Acute aquatic toxicity	High*	Flame retardant in extruded polystyrene foam, textiles, and electrical and electronic appliances	High	High environmental persistence High bioaccumulation potential	High	Flame retardant used in foam, textiles, electronics	Withheld

[†] For sources, see page 3.

[‡] For clarity, the table uses "Low," "Medium," and "High," to represent EPA's scores of "1," "2," and "3," respectively, for Hazard, Exposure, and Persistence & Bioaccumulation scores.

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

First 10 Chemicals Selected by EPA for Review under New TSCA

Chemical Name	CASRN	Data from EPA's 2014 Work Plan Chemical Assessment Update						Examples of uses	2011 National Production Volume (lbs)
		Hazard Criteria Met	Hazard Score	Exposure Criteria Met	Exposure Score	Persistence & Bioaccumulation Criteria Met	Persistence & Bioaccumulation Score		
Methylene chloride (DCM or MC)	75-09-2	Probable human carcinogen	High	Widely used in consumer products Present in drinking water, indoor environments, ambient air, groundwater, and soil High reported release to the environment	High	Low environmental persistence Low bioaccumulation potential	Low	Paint and coating-removal products, automotive products, spray paint, adhesives	261,469,894
N-Methyl-2-pyrrolidone (NMP)	872-50-4	Reproductive toxicity	High	Widely used in consumer products Present in drinking water and indoor environments High reported releases to the environment	High	Low environmental persistence Low bioaccumulation potential	Low	Paint and coating-removal products, cleaning agent, chemical intermediate	184,703,045
Pigment Violet 29 (Anthra[2,1,9-def:6,5,10-d'e'f'] diisoquinoline-1,3,8,10(2H,9H)-tetrone)	81-33-4	Aquatic toxicity	High*	Widely used in consumer products Estimated to have moderate releases to the environment	High	High environmental persistence Low bioaccumulation potential	Medium	Dye used in coatings and plastics	520,916
Trichloroethylene (TCE)	79-01-6	Known human carcinogen**	High	Widely used in consumer products Present in drinking water, indoor environments, surface water, ambient air, groundwater, and soil	High	High environmental persistence Low bioaccumulation potential	Medium	Dry cleaning, consumer, commercial, and industrial degreasers	224,674,308
Tetrachloroethylene (PERC)	127-18-4	Probable human carcinogen	High	Widely used in consumer products Present in biomonitoring, drinking water, indoor environments, ambient air, groundwater, soil High reported releases to the environment	High	High environmental persistence Low bioaccumulation potential	Medium	Dry cleaning, metals degreasing, spot removers, wood cleaners, shoe polish	420,694,838

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

** EPA's 2014 Work Plan Update identified TCE as a "Probable human carcinogen"; TCE has since been classified as a "known human carcinogen" by NTP and other authoritative bodies.

Sources:

ATSDR, "Toxicological Profile for Carbon Tetrachloride." Available at: <https://www.atsdr.cdc.gov/toxprofiles/tp.asp?id=196&tid=35#bookmark09>.

DIC Global. "General Purpose Pigments." Available at: <http://www.dic-global.com/ap/en/products/pigments/general/>.

EPA 2012 Chemical Data Reporting (CDR), representing data from 2011. Available through EPA's Chemical Data Access Tool (CDAT): https://java.epa.gov/oppt_chemical_search/.

EPA, "Evaluating Risk of Existing Chemicals under TSCA." Available at: <https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/evaluating-risk-existing-chemicals-under-tsca>.

EPA, "Technical Factsheet - 1,4-Dioxane." January 2014. Available at: <https://www.epa.gov/fedfac/technical-fact-sheet-14-dioxane>.

EPA TSCA Work Plan for Chemical Assessments: 2014 Update. Available at: <https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/tsca-work-plan-chemical-assessments-2014-update>.

EPA Work Plan Assessments for 1-bromopropane, DCM, NMP, and TCE and Problem Formulation and Initial Assessment for HBCD. All documents available at: <https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/assessments-tsca-work-plan-chemicals#process>.

Mom's Clean Air Force, "10 Reasons we need toxic chemical reform." Available at: <http://www.moms-clean-air-force.org/10-reasons-toxic-chemical-reform/>.

NIH, U.S. National Library Of Medicine. "Perchloroethylene." Available at: https://toxtown.nlm.nih.gov/text_version/chemicals.php?id=22.

NTP, 14th Report on Carcinogens. Trichloroethylene Substance Profile. Available at: <https://ntp.niehs.nih.gov/pubhealth/roc/index-1.html>.