

Chemical Data Reporting

FACT SHEET: 2016 CHEMICAL DATA REPORTING (CDR) DATA AND THE FIRST TEN CHEMICALS FOR RISK EVALUATION

This fact sheet provides an overview of the chemical manufacturing, processing, and use information collected during the 2016 CDR submission period for the first 10 chemicals identified for risk evaluation under the Frank R. Lautenberg Chemical Safety for the 21st Century Act, which amended the Toxic Substances Control Act (TSCA). This overview covers publicly available information from the 2016 CDR data release in June 2017. CDR collects information on manufacturing (including importing), processing, and use of chemicals in commerce in the United States. When using CDR data, users should recognize that the complete CDR data set has not been made publicly available as some of the data has been claimed as Confidential Business Information (CBI), and should draw conclusions from the available data with care.

What are the First Ten Chemicals Identified for Risk Evaluation?

Under amended TSCA, EPA is required to evaluate existing chemicals on a systematic basis to determine whether they present an unreasonable risk of injury to human health or the environment. On December 19, 2016, [EPA published a list of the first 10 chemicals](#) identified for initial risk evaluations:

- Asbestos
- 1-Bromopropane
- Carbon Tetrachloride
- 1,4-Dioxane
- Hexabromocyclododecane (HBCD)
- Methylene Chloride
- N-Methylpyrrolidone (NMP)
- Perchloroethylene
- Pigment Violet -29
- Trichloroethylene (TCE)

CDR Data for the First Ten Chemicals Identified for Risk Evaluation

CDR data aids EPA in identifying exposures, conditions of use, and the potentially exposed or susceptible subpopulation(s) the Agency plans to consider during the risk evaluations. The following three tables provide manufacturing and use information on the first ten chemicals collected during the 2016 CDR reporting cycle.

2016 CDR Manufacturing Information for the First Ten Chemicals for Risk Evaluation

Chemical Name	# Sites	Activity	2015 PV* (lb)	2014 PV (lb)	2013 PV (lb)	2012 PV (lb)
Asbestos	2	Imported	CBI	CBI	CBI	CBI
1-Bromopropane	10	Domestically Manufactured/Imported	25,887,235	18,503,022	24,039,932	18,770,090
Carbon Tetrachloride	9	Domestically Manufactured/Imported	142,582,067	138,951,153	116,658,281	129,145,698
1,4-Dioxane	4	Domestically Manufactured/Imported	1,059,980	474,331	1,043,627	894,505
HBCD	9	Domestically Manufactured/Imported	1,000,000 – 10,000,000	10,000,000 – 50,000,000	10,000,000 – 50,000,000	10,000,000 – 50,000,000
Methylene Chloride	21	Domestically Manufactured/Imported	263,971,494	248,241,495	230,498,027	230,896,388
NMP	33	Domestically Manufactured/Imported	160,818,058	171,095,221	168,187,596	164,311,844
Perchloroethylene	22	Domestically Manufactured/Imported	324,240,744	355,305,850	381,403,540	387,623,401
Pigment Violet -29	1	CBI	CBI	CBI	CBI	CBI
TCE	14	Domestically Manufactured/Imported	171,929,400	191,996,578	198,987,532	220,536,812

*Production Volume (PV) in pounds (lb)

Note: These data, published in June 2017, are considered preliminary and are subject to revision.

Selection of 2016 CDR Consumer/Commercial Use Information for the First Ten Chemicals for Risk Evaluation ^{1,2}

Chemical Name	Consumer or Commercial Use?	Product Category	
Asbestos	• N/A	• N/A	• N/A
1-Bromopropane	• Consumer • Commercial	• Adhesives and sealants • Agricultural products (non-pesticidal) • Cleaning and furnishing care products	• Electrical and electronic products • Industrial cleaning solvent • Metal products not covered elsewhere
Carbon Tetrachloride	• N/A	• N/A	• N/A
1,4-Dioxane	• Commercial	• Golf and sports turf	
HBCD	• Commercial • Consumer	• Building/construction materials not covered elsewhere	• Electrical and electronic products
Methylene Chloride	• Commercial • Consumer	• Adhesives and sealants • Automotive care products • Cleaning and furnishing care products • Lubricants and greases • Metal products not covered elsewhere	• Paints and coatings • Pharmaceutical • Plastic and rubber products not covered elsewhere • Toys, playground, and sporting equipment
NMP	• Commercial • Consumer	• Adhesives and sealants • Anti-freeze and de-icing products • Automotive care products • Cleaning and furnishing care products • Electrical and electronic products • Ink, toner, and colorant products • Internal usage, chemical usage, paint stripper	• Lubricants and greases • Metal products not covered elsewhere • Paints and coatings • Pharmaceutical synthesis • Plastic and rubber products not covered elsewhere • Used as a solvent
Perchloroethylene	• Commercial • Consumer	• Automotive care products • Cleaning and furnishing care products	• Commercial dry cleaning solvent • Lubricants and greases
Pigment Violet -29	• Commercial	• Paints and coatings	• Plastic and rubber products not covered elsewhere
TCE	• Commercial • Consumer	• Adhesives and sealants • Building/construction materials not covered elsewhere • Cleaning and furnishing care products • Facility solvent usage	• Industrial vapor degreasing solvent • Lubricants and greases • Metal products not covered elsewhere • Paints and coatings

¹ - These data, published in June 2017, are considered preliminary and are subject to revision.

² – Data reported as confidential business information (CBI) or not known to or reasonably ascertainable (NKRA) are not included in this table.

Selection of 2016 CDR Industrial Use Information for the First Ten Chemicals Identified for Risk Evaluation

Note: These data, published in June 2017, are considered preliminary and are subject to revision. These data are presented as submitted to CDR by manufacturers with two exceptions: submissions characterizing that the use or product category are Confidential Business Information (CBI) or Not Known or Reasonably Ascertainable (NKRA) are not included in this table.

PC – Processing as a reactant. PF – Processing - incorporation into formulation, mixture, or reaction. PA – Processing - incorporation into article. PK – Processing – repackaging.

U – Use - non-incorporative activities.

Chemical Name and Industrial Use Type	Industrial Use Sector			Industrial Function Category
Asbestos PF, U	<ul style="list-style-type: none"> All other basic inorganic chemical manufacturing 			<ul style="list-style-type: none"> Fillers Used as diaphragm material in Caustic/Chlorine electrolytic cells
1-Bromopropane PC, PF, PA, PK, U	<ul style="list-style-type: none"> Electrical equipment, appliance, and component manufacturing Computer and electronic product manufacturing Soap, cleaning compound, and toilet preparation manufacturing Fabricated metal product manufacturing 	<ul style="list-style-type: none"> All other basic inorganic chemical manufacturing Services Adhesive manufacturing Construction Pesticide, fertilizer, and other agricultural chemical manufacturing 	<ul style="list-style-type: none"> All other chemical product and preparation manufacturing All other basic organic chemical manufacturing Agriculture, forestry, fishing and hunting 	<ul style="list-style-type: none"> Solvents (for cleaning and degreasing) Intermediates Solvents (which become part of product formulation or mixture) Agricultural chemicals (non-pesticidal)
Carbon Tetrachloride PC, U	<ul style="list-style-type: none"> All other basic organic chemical manufacturing 	<ul style="list-style-type: none"> Pesticide, fertilizer, and other agricultural chemical manufacturing 		<ul style="list-style-type: none"> Intermediates Processing aids, not otherwise listed Laboratory chemicals Process regulators
1,4-Dioxane PK, U, NKRA	<ul style="list-style-type: none"> Services Wholesale and retail trade 	<ul style="list-style-type: none"> Pharmaceutical and medicine manufacturing 	<ul style="list-style-type: none"> All other basic organic chemical manufacturing 	<ul style="list-style-type: none"> Laboratory chemicals Functional fluids (closed systems) Processing aids, not otherwise listed
HBCD PF, PA	<ul style="list-style-type: none"> Plastics product manufacturing Construction 	<ul style="list-style-type: none"> Plastic material and resin manufacturing 	<ul style="list-style-type: none"> All other basic inorganic chemical manufacturing 	<ul style="list-style-type: none"> Flame retardants Intermediates
Methylene Chloride PC, PA, PK, U, NKRA	<ul style="list-style-type: none"> All other basic organic chemical manufacturing All other chemical product and preparation manufacturing Wholesale and retail trade Soap, cleaning compound, and toilet preparation manufacturing Pesticide, fertilizer, and other agricultural chemical manufacturing 	<ul style="list-style-type: none"> Miscellaneous manufacturing Services Pharmaceutical and medicine manufacturing Plastic material and resin manufacturing Adhesive manufacturing 	<ul style="list-style-type: none"> Oil and gas drilling, extraction, and support activities Plastics product manufacturing All other basic inorganic chemical manufacturing Electrical equipment, appliance, and component manufacturing Paint and coating manufacturing 	<ul style="list-style-type: none"> Solvents (for cleaning and degreasing) Adhesives and sealant chemicals Solvents (which become part of product formulation or mixture) Intermediates Laboratory chemicals Paint additives and coating additives not described by other categories Processing aids, specific to petroleum production Processing aids, not otherwise listed Functional fluids (closed systems)

Selection of 2016 CDR Industrial Use Information for the First Ten Chemicals Identified for Risk Evaluation (Continued)

Note: These data, published in June 2017, are considered preliminary and are subject to revision. These data are presented as submitted to CDR by manufacturers with two exceptions: submissions characterizing that the use or product category are Confidential Business Information (CBI) or Not Known or Reasonably Ascertainable (NKRA) are not included in this table.

PC – Processing as a reactant. PF – Processing - incorporation into formulation, mixture, or reaction. PA – Processing - incorporation into article. PK – Processing – repackaging. U – Use - non-incorporative activities.

Chemical Name and Industrial Use Type	Industrial Use Sector			Industrial Function Category
NMP PC, PF, PA, PK, U, NKRA	<ul style="list-style-type: none"> Petroleum lubricating oil and grease manufacturing Oil and gas drilling, extraction, and support activities All other basic organic chemical manufacturing Paint and coating manufacturing Petrochemical manufacturing Soap, cleaning compound, and toilet preparation manufacturing All other chemical product and preparation manufacturing Machinery manufacturing Textiles, apparel, and leather manufacturing Printing ink manufacturing Abrasives manufacturing 	<ul style="list-style-type: none"> Adhesive manufacturing Pharmaceutical and medicine manufacturing Plastic material and resin manufacturing Pesticide, fertilizer, and other agricultural chemical manufacturing Wholesale and retail trade Fabricated metal product manufacturing Computer and electronic product manufacturing Transportation equipment manufacturing Miscellaneous manufacturing Construction 	<ul style="list-style-type: none"> Services Electrical equipment, appliance, and component manufacturing Nonmetallic mineral product manufacturing (includes clay, glass, cement, concrete, lime, gypsum, and other nonmetallic mineral product manufacturing. Primary metal manufacturing Printing and related support activities 	<ul style="list-style-type: none"> Solvents (which become part of product formulation or mixture) Solvents (for cleaning and degreasing) Plating agents and surface treating agents Processing aids, specific to petroleum production Paint additives and coating additives not described by other categories Chemical Recovery Laboratory chemicals Lubricants and lubricant additives Functional fluids (closed systems) Processing aids, not otherwise listed Surface active agents Anti-adhesive agents Additive Additive – rheology Plastic additive Intermediates
Perchloroethylene PC, PF, PK, U, NKRA	<ul style="list-style-type: none"> Wholesale and retail trade Industrial gas manufacturing Petroleum refineries All other basic organic chemical manufacturing 	<ul style="list-style-type: none"> Soap, cleaning compound, and toilet preparation manufacturing Adhesive manufacturing Fabricated metal product manufacturing All other chemical product and preparation manufacturing 	<ul style="list-style-type: none"> Paint and coating manufacturing Petrochemical manufacturing Pesticide, fertilizer, and other agricultural chemical manufacturing 	<ul style="list-style-type: none"> Intermediates Solvents (for cleaning and degreasing) Functional fluids (closed systems) Adhesives and sealant chemicals Solvents (which become part of product formulation or mixture) Processing aids, specific to petroleum production Processing aids, not otherwise listed Pigments
Pigment Violet -29 PC, PF	<ul style="list-style-type: none"> Plastics product manufacturing 	<ul style="list-style-type: none"> Paint and coating manufacturing 	<ul style="list-style-type: none"> Synthetic dye and pigment manufacturing 	<ul style="list-style-type: none"> Pigments

Selection of 2016 CDR Industrial Use Information for the First Ten Chemicals Identified for Risk Evaluation (Continued)

Note: These data, published in June 2017, are considered preliminary and are subject to revision. These data are presented as submitted to CDR by manufacturers with two exceptions: submissions characterizing that the use or product category are Confidential Business Information (CBI) or Not Known or Reasonably Ascertainable (NKRA) are not included in this table. **PC** – Processing as a reactant. **PF** – Processing - incorporation into formulation, mixture, or reaction. **PA** – Processing - incorporation into article. **PK** – Processing – repackaging. **U** – Use - non-incorporative activities.

Chemical Name and Industrial Use Type	Industrial Use Sector			Industrial Function Category
Trichloroethylene (TCE) PC, PF, PK, U, NKRA	<ul style="list-style-type: none"> Wholesale and retail trade Industrial gas manufacturing All other basic organic chemical manufacturing Petroleum lubricating oil and grease manufacturing Fabricated metal product manufacturing All other chemical product and preparation manufacturing 	<ul style="list-style-type: none"> Computer and electronic product manufacturing Transportation equipment manufacturing Primary metal manufacturing Miscellaneous manufacturing Construction Services Paper manufacturing 	<ul style="list-style-type: none"> Adhesive manufacturing Plastics product manufacturing Machinery manufacturing Soap, cleaning compound, and toilet preparation manufacturing Government (Department of Transportation) 	<ul style="list-style-type: none"> Solvents (for cleaning and degreasing) Metal foams Corrosion inhibitors and anti-scaling agents Intermediates Adhesives and sealant chemicals Solvents (which become part of product formulation or mixture) Functional fluids (closed systems)

Helpful Terms

The following definitions help explain some of the terms found in the tables above.

- **Domestically Manufactured:** The chemical is manufactured or produced in the United States for commercial purposes. This term also applies to substances produced coincidentally during the manufacturing, processing, use, or disposal of another substance or mixture, including byproducts separated from other substances or mixtures and impurities that remain in substances or mixtures.
- **Imported:** The chemical is imported into the United States for commercial purposes. This includes any amount of an imported chemical substance or mixture, including impurities.
- **Consumer Use:** When a chemical or a mixture containing a chemical (including as part of a manufactured item, or article, such as furniture or clothing) is sold to or made available to consumers for their use.
- **Commercial Use:** The use of a chemical or a mixture containing a chemical (including as part of an article) in a commercial enterprise, such as dry cleaning.
- **Industrial Use:** The use of a chemical at a site at which one or more chemicals or mixtures are manufactured (including imported) or processed.
- **Confidential Business Information (CBI):** Information submitted under CDR may be claimed as CBI, which EPA is prohibited from releasing. Submitters must provide upfront substantiation of confidentiality claims for processing and use information as well as for site or chemical identity.

For further definitions, please visit the [2016 CDR reporting guide](#).

For Additional Information:

- [Chemical Data Reporting Fact Sheet: Basic Information](https://www.epa.gov/chemical-data-reporting/chemical-data-reporting-fact-sheet-basic-information) (https://www.epa.gov/chemical-data-reporting/chemical-data-reporting-fact-sheet-basic-information)
- [Access the 2016 CDR data in ChemView](https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/introduction-chemview) (https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/introduction-chemview)
- [Using CDR to evaluate chemicals under the Frank R. Lautenberg Chemical Safety for the 21st Century Act](https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/evaluating-risk-existing-chemicals-under-tsca) (https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/evaluating-risk-existing-chemicals-under-tsca)
- [First Ten Chemicals for Risk Evaluation](https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/risk-evaluations-existing-chemicals-under-tsca#ten) (https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/risk-evaluations-existing-chemicals-under-tsca#ten)