

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/31/2018

Reviewed on 05/31/2018

1 Identification

- **Product identifier**
- **Trade name:** VOC-M60C
- **Article number:** VOC-M60C
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 High-Purity Standards
 PO Box 41727 SC 29423 United States
 www.highpuritystandards.com
- **Information department:** *Product safety department*
- **Emergency telephone number:**
 INFOTRAC
 Emergency telephone numbers 1-800-535-5053
 Other emergency telephone numbers 1-352-323-3500

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.


GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.


GHS08 Health hazard

STOT SE 1 H370 Causes damage to organs.

- **Label elements**
- **GHS label elements** *The product is classified and labeled according to the Globally Harmonized System (GHS).*
- **Hazard pictograms**



GHS02



GHS06



GHS08

- **Signal word** *Danger*
- **Hazard-determining components of labeling:**
methanol
- **Hazard statements**
H225 Highly flammable liquid and vapor.
H331 Toxic if inhaled.
H370 Causes damage to organs.

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· **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Specific treatment (see on this label).
In case of fire: Use for extinction: CO₂, powder or water spray.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

67-56-1	methanol	98.8%
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· **Chemical identification of the substance/preparation**

71-55-6	1,1,1-trichloroethane	0.02%
79-34-5	1,1,2,2-tetrachloroethane	0.02%
79-00-5	1,1,2-trichloroethane	0.02%
75-35-4	1,1-dichloroethylene	0.02%
75-34-3	1,1-dichloroethane	0.02%

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563-58-6	1,1-dichloropropene	0.02%
87-61-6	1,2,3-trichlorobenzene	0.02%
96-18-4	1,2,3-trichloropropane	0.02%
120-82-1	1,2,4-trichlorobenzene	0.02%
95-63-6	1,2,4-trimethylbenzene	0.02%
96-12-8	1,2-dibromo-3-chloropropane	0.02%
106-93-4	1,2-dibromoethane	0.02%
95-50-1	1,2-dichlorobenzene	0.02%
107-06-2	1,2-dichloroethane	0.02%
78-87-5	1,2-dichloropropane	0.02%
108-67-8	mesitylene	0.02%
541-73-1	1,3-dichlorobenzene	0.02%
142-28-9	1,3-dichloropropane	0.02%
106-46-7	1,4-dichlorobenzene	0.02%
594-20-7	2,2-dichloropropane	0.02%
95-49-8	2-chlorotoluene	0.02%
106-43-4	4-chlorotoluene	0.02%
71-43-2	benzene	0.02%
108-86-1	bromobenzene	0.02%
74-97-5	bromochloromethane	0.02%
75-27-4	bromodichloromethane	0.02%
75-25-2	bromoform	0.02%
74-83-9	bromomethane	0.02%
56-23-5	carbon tetrachloride	0.02%
75-00-3	chloroethane	0.02%
108-90-7	chlorobenzene	0.02%
67-66-3	trichloromethane	0.02%
74-87-3	chloromethane	0.02%
156-59-2	cis-dichloroethylene	0.02%
10061-01-5	(Z)-1,3-dichloropropene	0.02%
124-48-1	dibromochloromethane	0.02%
74-95-3	dibromomethane	0.02%
75-71-8	dichlorodifluoromethane	0.02%
75-09-2	dichloromethane	0.02%
100-41-4	ethylbenzene	0.02%
87-68-3	hexachlorobuta-1,3-diene	0.02%
98-82-8	cumene	0.02%
108-38-3	m-xylene	0.02%
91-20-3	naphthalene	0.02%
104-51-8	butylbenzene	0.02%

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103-65-1	propylbenzene	0.02%
95-47-6	o-xylene	0.02%
99-87-6	Cymol	0.02%
106-42-3	p-xylene	0.02%
135-98-8	sec-butylbenzene	0.02%
100-42-5	styrene	0.02%
98-06-6	tert-butylbenzene	0.02%
127-18-4	tetrachloroethylene	0.02%
108-88-3	toluene	0.02%
156-60-5	trans-dichloroethylene	0.02%
79-01-6	trichloroethylene	0.02%
75-69-4	trichlorofluoromethane	0.02%
75-01-4	vinyl chloride	0.02%
10061-02-6	trans-1,3-Dichloropropene	0.02%
630-20-6	1,1,1,2-Tetrachloroethane	0.02%

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Immediately remove any clothing soiled by the product.
Remove breathing apparatus only after contaminated clothing have been completely removed.
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After inhalation:**
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

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6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

67-56-1	methanol	530 ppm
71-55-6	1,1,1-trichloroethane	230 ppm
79-34-5	1,1,2,2-tetrachloroethane	3 ppm
79-00-5	1,1,2-trichloroethane	30 ppm
75-35-4	1,1-dichloroethylene	45 ppm
75-34-3	1,1-dichloroethane	300 ppm
563-58-6	1,1-dichloropropene	1.3 ppm
87-61-6	1,2,3-trichlorobenzene	15 mg/m ³
96-18-4	1,2,3-trichloropropane	0.015 ppm
120-82-1	1,2,4-trichlorobenzene	0.45 ppm
95-63-6	1,2,4-trimethylbenzene	140 ppm
96-12-8	1,2-dibromo-3-chloropropane	0.003 ppm
106-93-4	1,2-dibromoethane	17 ppm
95-50-1	1,2-dichlorobenzene	50 ppm
107-06-2	1,2-dichloroethane	50 ppm
78-87-5	1,2-dichloropropane	30 ppm
108-67-8	mesitylene	140 ppm
541-73-1	1,3-dichlorobenzene	6 ppm
142-28-9	1,3-dichloropropane	5.4 ppm
106-46-7	1,4-dichlorobenzene	30 ppm
594-20-7	2,2-dichloropropane	2.6 ppm
95-49-8	2-chlorotoluene	75 ppm
106-43-4	4-chlorotoluene	1.2 ppm
71-43-2	benzene	52 ppm
108-86-1	bromobenzene	0.96 ppm
74-97-5	bromochloromethane	600 ppm
75-27-4	bromodichloromethane	1.3 mg/m ³
75-25-2	bromoform	1.5 ppm

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74-83-9	bromomethane	19 ppm
56-23-5	carbon tetrachloride	1.2 ppm

PAC-2:

67-56-1	methanol	2,100 ppm
71-55-6	1,1,1-trichloroethane	600 ppm
79-34-5	1,1,2,2-tetrachloroethane	120 ppm
79-00-5	1,1,2-trichloroethane	180 ppm
75-35-4	1,1-dichloroethylene	500 ppm
75-34-3	1,1-dichloroethane	670 ppm
563-58-6	1,1-dichloropropene	15 ppm
87-61-6	1,2,3-trichlorobenzene	60 mg/m ³
96-18-4	1,2,3-trichloropropane	170 ppm
120-82-1	1,2,4-trichlorobenzene	5 ppm
95-63-6	1,2,4-trimethylbenzene	360 ppm
96-12-8	1,2-dibromo-3-chloropropane	2.2 ppm
106-93-4	1,2-dibromoethane	24 ppm
95-50-1	1,2-dichlorobenzene	170 ppm
107-06-2	1,2-dichloroethane	200 ppm
78-87-5	1,2-dichloropropane	220 ppm
108-67-8	mesitylene	360 ppm
541-73-1	1,3-dichlorobenzene	66 ppm
142-28-9	1,3-dichloropropane	59 ppm
106-46-7	1,4-dichlorobenzene	170 ppm
594-20-7	2,2-dichloropropane	29 ppm
95-49-8	2-chlorotoluene	310 ppm
106-43-4	4-chlorotoluene	13 ppm
71-43-2	benzene	800 ppm
108-86-1	bromobenzene	11 ppm
74-97-5	bromochloromethane	830 ppm
75-27-4	bromodichloromethane	14 mg/m ³
75-25-2	bromoform	6.8 ppm
74-83-9	bromomethane	210 ppm
56-23-5	carbon tetrachloride	13 ppm

PAC-3:

67-56-1	methanol	7200* ppm
71-55-6	1,1,1-trichloroethane	4,200 ppm
79-34-5	1,1,2,2-tetrachloroethane	150 ppm
79-00-5	1,1,2-trichloroethane	500 ppm
75-35-4	1,1-dichloroethylene	1,000 ppm
75-34-3	1,1-dichloroethane	4,000 ppm

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563-58-6	1,1-dichloropropene	87 ppm
87-61-6	1,2,3-trichlorobenzene	360 mg/m ³
96-18-4	1,2,3-trichloropropane	1,000 ppm
120-82-1	1,2,4-trichlorobenzene	20 ppm
95-63-6	1,2,4-trimethylbenzene	480 ppm
96-12-8	1,2-dibromo-3-chloropropane	4.3 ppm
106-93-4	1,2-dibromoethane	46 ppm
95-50-1	1,2-dichlorobenzene	1,000 ppm
107-06-2	1,2-dichloroethane	300 ppm
78-87-5	1,2-dichloropropane	2,000 ppm
108-67-8	mesitylene	480 ppm
541-73-1	1,3-dichlorobenzene	400 ppm
142-28-9	1,3-dichloropropane	350 ppm
106-46-7	1,4-dichlorobenzene	1,000 ppm
594-20-7	2,2-dichloropropane	170 ppm
95-49-8	2-chlorotoluene	1,800 ppm
106-43-4	4-chlorotoluene	80 ppm
71-43-2	benzene	4000* ppm
108-86-1	bromobenzene	240 ppm
74-97-5	bromochloromethane	5,000 ppm
75-27-4	bromodichloromethane	85 mg/m ³
75-25-2	bromoform	41 ppm
74-83-9	bromomethane	740 ppm
56-23-5	carbon tetrachloride	340 ppm

7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store in a cool location.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

67-56-1 methanol

PEL Long-term value: 260 mg/m³, 200 ppm

REL Short-term value: 325 mg/m³, 250 ppm
Long-term value: 260 mg/m³, 200 ppm
Skin

TLV Short-term value: 328 mg/m³, 250 ppm
Long-term value: 262 mg/m³, 200 ppm
Skin; BEI

· **Ingredients with biological limit values:**

67-56-1 methanol

BEI 15 mg/L
Medium: urine
Time: end of shift
Parameter: Methanol (background, nonspecific)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:**


Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Fluid
Color:	Colorless
Odor:	Characteristic
Odor threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	64.7 °C (148.5 °F)

· **Flash point:** 11 °C (51.8 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 455 °C (851 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

Lower:	5.5 Vol %
Upper:	44 Vol %

· **Vapor pressure at 20 °C (68 °F):** 128 hPa (96 mm Hg)

· **Density:** Not determined.

· **Relative density** Not determined.

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**
Water: Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

Dynamic:	Not determined.
Kinematic:	Not determined.

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· Solvent content:	
Organic solvents:	99.4 %
VOC content:	99.30 %
	993.0 g/l / 8.29 lb/gal
· Solids content:	
	0.1 %
· Other information	
	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· LD/LC50 values that are relevant for classification:
67-56-1 methanol

Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Toxic

- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)

71-55-6	1,1,1-trichloroethane	3
79-34-5	1,1,2,2-tetrachloroethane	2B
79-00-5	1,1,2-trichloroethane	3
75-35-4	1,1-dichloroethylene	3
96-18-4	1,2,3-trichloropropane	2A
96-12-8	1,2-dibromo-3-chloropropane	2B
106-93-4	1,2-dibromoethane	2A
95-50-1	1,2-dichlorobenzene	3
107-06-2	1,2-dichloroethane	2B

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78-87-5	1,2-dichloropropane	I
541-73-1	1,3-dichlorobenzene	3
106-46-7	1,4-dichlorobenzene	2B
71-43-2	benzene	I
75-27-4	bromodichloromethane	2B
75-25-2	bromoform	3
74-83-9	bromomethane	3
56-23-5	carbon tetrachloride	2B
75-00-3	chloroethane	3
67-66-3	trichloromethane	2B
74-87-3	chloromethane	3
124-48-1	dibromochloromethane	3
75-09-2	dichloromethane	2A
100-41-4	ethylbenzene	2B
87-68-3	hexachlorobuta-1,3-diene	3
98-82-8	cumene	2B
108-38-3	m-xylene	3
91-20-3	naphthalene	2B
95-47-6	o-xylene	3
106-42-3	p-xylene	3
100-42-5	styrene	2B

· NTP (National Toxicology Program)

96-18-4	1,2,3-trichloropropane	R
96-12-8	1,2-dibromo-3-chloropropane	R
106-93-4	1,2-dibromoethane	R
107-06-2	1,2-dichloroethane	R
106-46-7	1,4-dichlorobenzene	R
71-43-2	benzene	K
75-27-4	bromodichloromethane	R
56-23-5	carbon tetrachloride	R
67-66-3	trichloromethane	R
75-09-2	dichloromethane	R
98-82-8	cumene	R
91-20-3	naphthalene	R
100-42-5	styrene	R
127-18-4	tetrachloroethylene	R
79-01-6	trichloroethylene	K
75-01-4	vinyl chloride	K

· OSHA-Ca (Occupational Safety & Health Administration)

96-12-8	1,2-dibromo-3-chloropropane	
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71-43-2	benzene
75-09-2	dichloromethane
75-01-4	vinyl chloride

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number	
· DOT, ADR, IMDG, IATA	UN1992
· UN proper shipping name	
· DOT	Flammable liquids, toxic, n.o.s. (Methanol)
· ADR	1992 Flammable liquids, toxic, n.o.s. (Methanol)
· IMDG, IATA	FLAMMABLE LIQUID, TOXIC, N.O.S. (METHANOL)

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· Transport hazard class(es)
· DOT


· Class 3 Flammable liquids
· Label 3, 6.1

· ADR


· Class 3 Flammable liquids
· Label 3+6.1

· IMDG


· Class 3 Flammable liquids
· Label 3/6.1

· IATA


· Class 3 Flammable liquids
· Label 3 (6.1)

· Packing group

· DOT, ADR, IMDG, IATA II

· Environmental hazards: Not applicable.

· Special precautions for user Warning: Flammable liquids
· Danger code (Kemler): 336
· EMS Number: F-E, S-D
· Stowage Category B
· Stowage Code SW2 Clear of living quarters.

· Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

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· Transport/Additional information:
· DOT
· Quantity limitations

On passenger aircraft/rail: 1 L

On cargo aircraft only: 60 L

· ADR
· Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· IMDG
· Limited quantities (LQ)

1L

· Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

UN 1992 FLAMMABLE LIQUIDS, TOXIC, N.O.S. (METHANOL), 3 (6.1), II

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
· Sara
· Section 355 (extremely hazardous substances):

75-34-3 1,1-dichloroethane

74-83-9 bromomethane

67-66-3 trichloromethane

· Section 313 (Specific toxic chemical listings):

67-56-1 methanol

71-55-6 1,1,1-trichloroethane

79-34-5 1,1,2,2-tetrachloroethane

79-00-5 1,1,2-trichloroethane

75-35-4 1,1-dichloroethylene

75-34-3 1,1-dichloroethane

96-18-4 1,2,3-trichloropropane

120-82-1 1,2,4-trichlorobenzene

95-63-6 1,2,4-trimethylbenzene

96-12-8 1,2-dibromo-3-chloropropane

106-93-4 1,2-dibromoethane

95-50-1 1,2-dichlorobenzene

107-06-2 1,2-dichloroethane

78-87-5 1,2-dichloropropane

541-73-1 1,3-dichlorobenzene

106-46-7 1,4-dichlorobenzene

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71-43-2	benzene
75-27-4	bromodichloromethane
75-25-2	bromoform
74-83-9	bromomethane
56-23-5	carbon tetrachloride
75-00-3	chloroethane
108-90-7	chlorobenzene
67-66-3	trichloromethane
74-87-3	chloromethane
74-95-3	dibromomethane
75-71-8	dichlorodifluoromethane
75-09-2	dichloromethane
100-41-4	ethylbenzene
87-68-3	hexachlorobuta-1,3-diene

TSCA (Toxic Substances Control Act):

67-56-1	methanol
71-55-6	1,1,1-trichloroethane
79-34-5	1,1,2,2-tetrachloroethane
79-00-5	1,1,2-trichloroethane
75-35-4	1,1-dichloroethylene
75-34-3	1,1-dichloroethane
87-61-6	1,2,3-trichlorobenzene
96-18-4	1,2,3-trichloropropane
120-82-1	1,2,4-trichlorobenzene
95-63-6	1,2,4-trimethylbenzene
96-12-8	1,2-dibromo-3-chloropropane
106-93-4	1,2-dibromoethane
95-50-1	1,2-dichlorobenzene
107-06-2	1,2-dichloroethane
78-87-5	1,2-dichloropropane
108-67-8	mesitylene
541-73-1	1,3-dichlorobenzene
142-28-9	1,3-dichloropropane
106-46-7	1,4-dichlorobenzene
594-20-7	2,2-dichloropropane
95-49-8	2-chlorotoluene
106-43-4	4-chlorotoluene
71-43-2	benzene
108-86-1	bromobenzene
74-97-5	bromochloromethane

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75-27-4	bromodichloromethane
75-25-2	bromoform
74-83-9	bromomethane
56-23-5	carbon tetrachloride
75-00-3	chloroethane

· **Proposition 65**

· **Chemicals known to cause cancer:**

79-34-5	1,1,2,2-tetrachloroethane
79-00-5	1,1,2-trichloroethane
75-34-3	1,1-dichloroethane
96-18-4	1,2,3-trichloropropane
96-12-8	1,2-dibromo-3-chloropropane
106-93-4	1,2-dibromoethane
107-06-2	1,2-dichloroethane
78-87-5	1,2-dichloropropane
106-46-7	1,4-dichlorobenzene
71-43-2	benzene
75-27-4	bromodichloromethane
75-25-2	bromoform
56-23-5	carbon tetrachloride
75-00-3	chloroethane
67-66-3	trichloromethane
75-09-2	dichloromethane
100-41-4	ethylbenzene
87-68-3	hexachlorobuta-1,3-diene
98-82-8	cumene
91-20-3	naphthalene
100-42-5	styrene
127-18-4	tetrachloroethylene
79-01-6	trichloroethylene
75-01-4	vinyl chloride
630-20-6	1,1,1,2-Tetrachloroethane

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

96-12-8	1,2-dibromo-3-chloropropane
106-93-4	1,2-dibromoethane
71-43-2	benzene
74-87-3	chloromethane
79-01-6	trichloroethylene

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· Chemicals known to cause developmental toxicity:

67-56-1	methanol
106-93-4	1,2-dibromoethane
71-43-2	benzene
74-83-9	bromomethane
67-66-3	trichloromethane
74-87-3	chloromethane
108-88-3	toluene
79-01-6	trichloroethylene

· Carcinogenic categories
· EPA (Environmental Protection Agency) (Substances not listed)

67-56-1	methanol
563-58-6	1,1-dichloropropene
87-61-6	1,2,3-trichlorobenzene
96-12-8	1,2-dibromo-3-chloropropane
78-87-5	1,2-dichloropropane
142-28-9	1,3-dichloropropane
106-46-7	1,4-dichlorobenzene
594-20-7	2,2-dichloropropane
95-49-8	2-chlorotoluene
106-43-4	4-chlorotoluene
75-00-3	chloroethane
10061-01-5	(Z)-1,3-dichloropropene
74-95-3	dibromomethane
75-71-8	dichlorodifluoromethane
104-51-8	butylbenzene
103-65-1	propylbenzene
99-87-6	Cymol
135-98-8	sec-butylbenzene
100-42-5	styrene
98-06-6	tert-butylbenzene
75-69-4	trichlorofluoromethane
10061-02-6	trans-1,3-Dichloropropene

· TLV (Threshold Limit Value established by ACGIH)

71-55-6	1,1,1-trichloroethane	A4
79-34-5	1,1,2,2-tetrachloroethane	A3
79-00-5	1,1,2-trichloroethane	A3
75-35-4	1,1-dichloroethylene	A4
75-34-3	1,1-dichloroethane	A4
96-18-4	1,2,3-trichloropropane	A3

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106-93-4	1,2-dibromoethane	A3
95-50-1	1,2-dichlorobenzene	A4
107-06-2	1,2-dichloroethane	A4
78-87-5	1,2-dichloropropane	A4
106-46-7	1,4-dichlorobenzene	A3
71-43-2	benzene	A1
75-25-2	bromoform	A3
74-83-9	bromomethane	A4
56-23-5	carbon tetrachloride	A2
75-00-3	chloroethane	A3
108-90-7	chlorobenzene	A3
67-66-3	trichloromethane	A3
74-87-3	chloromethane	A4
75-71-8	dichlorodifluoromethane	A4
75-09-2	dichloromethane	A3
100-41-4	ethylbenzene	A3
87-68-3	hexachlorobuta-1,3-diene	A3
108-38-3	m-xylene	A4
91-20-3	naphthalene	A4
95-47-6	o-xylene	A4
106-42-3	p-xylene	A4
100-42-5	styrene	A4
127-18-4	tetrachloroethylene	A3
108-88-3	toluene	A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

79-34-5	1,1,2,2-tetrachloroethane	
79-00-5	1,1,2-trichloroethane	
75-35-4	1,1-dichloroethylene	
96-18-4	1,2,3-trichloropropane	
96-12-8	1,2-dibromo-3-chloropropane	
106-93-4	1,2-dibromoethane	
107-06-2	1,2-dichloroethane	
78-87-5	1,2-dichloropropane	
106-46-7	1,4-dichlorobenzene	
71-43-2	benzene	
74-83-9	bromomethane	
56-23-5	carbon tetrachloride	
67-66-3	trichloromethane	
74-87-3	chloromethane	
75-09-2	dichloromethane	

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87-68-3	hexachlorobuta-1,3-diene
127-18-4	tetrachloroethylene
79-01-6	trichloroethylene
75-01-4	vinyl chloride

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



- **Signal word** *Danger*
- **Hazard-determining components of labeling:**
methanol
- **Hazard statements**
H225 Highly flammable liquid and vapor.
H331 Toxic if inhaled.
H370 Causes damage to organs.
- **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Specific treatment (see on this label).
In case of fire: Use for extinction: CO2, powder or water spray.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** *Environment protection department.*
- **Contact:**
High-Purity Standards
Tel: 843-767-7900
Fax: 843-767-7906

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· Date of preparation / last revision 05/31/2018 / -**· Abbreviations and acronyms:***ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**DOT: US Department of Transportation**IATA: International Air Transport Association**ACGIH: American Conference of Governmental Industrial Hygienists**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**NFPA: National Fire Protection Association (USA)**HMIS: Hazardous Materials Identification System (USA)**VOC: Volatile Organic Compounds (USA, EU)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**NIOSH: National Institute for Occupational Safety**OSHA: Occupational Safety & Health**TLV: Threshold Limit Value**PEL: Permissible Exposure Limit**REL: Recommended Exposure Limit**BEI: Biological Exposure Limit**Flam. Liq. 2: Flammable liquids – Category 2**Acute Tox. 3: Acute toxicity – Category 3**STOT SE 1: Specific target organ toxicity (single exposure) – Category 1*