

Safety Data Sheet acc. to OSHA HCS

Date of issue: 06/30/2026

Reviewed on 06/30/2026

1 Identification

- **Product identifier**
- **Trade name:** QCO-119, PEO-119
- **Other means of identification**
- **Application of the substance / the mixture** For Laboratory Use Only
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
NSI Lab Solutions
7212 ACC Blvd.,
Raleigh, NC 27617
USA
- **Information department:** Product safety department
- **Emergency telephone number:** During normal opening times: +1 (919) 789-3000

* 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable liquids 2

H225 Highly flammable liquid and vapor.



GHS06 Skull and crossbones

Acute toxicity - inhalation 3

H331 Toxic if inhaled.



GHS08 Health hazard

Germ cell mutagenicity 1B

H340 May cause genetic defects.

Carcinogenicity 1A

H350 May cause cancer.

Reproductive toxicity 1A

H360 May damage fertility or the unborn child.

Specific target organ toxicity (single exposure) 1

H370 Causes damage to the central nervous system and the visual organs.



GHS07

Sensitization - skin 1

H317 May cause an allergic skin reaction.

- **Label elements**

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

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· **Hazard pictograms**· **Signal word** *Danger*· **Hazard-determining components of labeling:***methanol**1,4-dioxane**1,2-dibromo-3-chloropropane**(2E)-1,4-dichloro-2-butene**methyl methacrylate**hexachlorobuta-1,3-diene**methacrylonitrile*· **Hazard statements***Highly flammable liquid and vapor.**Toxic if inhaled.**May cause an allergic skin reaction.**May cause genetic defects.**May cause cancer.**May damage fertility or the unborn child.**Causes damage to the central nervous system and the visual organs.*· **Precautionary statements***Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.**Ground / bond container and receiving equipment.**Use explosion-proof [electrical/ventilating/lighting] equipment.**Use non-sparking tools.**Take action to prevent 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.**Contaminated work clothing must not be allowed out of the workplace.**Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.**If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].**If inhaled: Remove person to fresh air and keep comfortable for breathing.**IF exposed or concerned: Get medical advice/attention.**Take off contaminated clothing and wash it before reuse.**If skin irritation or rash occurs: Get medical advice/attention.**Specific treatment (see on this label).**In case of fire: Use CO₂, powder or water spray to extinguish.**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.*

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- Information pertaining to particular dangers for man and environment:
- Classification system:
- NFPA ratings (scale 0 - 4)



- HMIS-ratings (scale 0 - 4)



- Other hazards
- Results of PBT and vPvB assessment

· PBT:	
87-61-6	1,2,3-trichlorobenzene
87-68-3	hexachlorobuta-1,3-diene
· vPvB:	
87-68-3	hexachlorobuta-1,3-diene

- Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

- Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

* 3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
67-56-1	methanol	≥80–≤100%
123-91-1	1,4-dioxane	≥0.1–≤1%
109-99-9	tetrahydrofuran	0.1%
74-88-4	methyl iodide	0.1%
76-01-7	pentachloroethane	0.1%
80-62-6	methyl methacrylate	0.1%
87-61-6	1,2,3-trichlorobenzene	≥0–≤0.1%
87-68-3	hexachlorobuta-1,3-diene	0.1%
96-12-8	1,2-dibromo-3-chloropropane	0.1%
96-18-4	1,2,3-trichloropropane	0.1%
98-82-8	Cumene	0.1%
103-65-1	propylbenzene	0.1%
106-93-4	1,2-dibromoethane	0.1%
107-05-1	3-chloropropene	0.1%
110-57-6	(2E)-1,4-dichloro-2-butene	0.1%
630-20-6	1,1,1,2-Tetrachloroethane	0.1%

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126-98-7	methacrylonitrile	0.1%
· Non-hazardous components		
78-83-1	butanol	≥0–<1%
624-95-3	3,3-dimethylbutan-1-ol	≥0–≤1%
74-97-5	bromochloromethane	≥0–≤0.1%
76-13-1	1,1,2-trichlorotrifluoroethane	≥0–≤0.1%
95-49-8	2-chlorotoluene	≥0–≤0.1%
95-63-6	1,2,4-trimethylbenzene	≥0–≤0.1%
98-06-6	tert-butylbenzene	≥0–≤0.1%
99-87-6	p-cymene	≥0–≤0.1%
104-51-8	butylbenzene	≥0–≤0.1%
106-43-4	4-chlorotoluene	≥0–≤0.1%
107-12-0	propanenitrile	≥0–≤0.1%
108-67-8	mesitylene	≥0–≤0.1%
108-70-3	1,3,5-trichlorobenzene	≥0–≤0.1%
108-86-1	bromobenzene	≥0–≤0.1%
142-28-9	1,3-dichloropropane	≥0–≤0.1%
563-58-6	1,1-dichloropropene	≥0–≤0.1%
594-20-7	2,2-dichloropropane	≥0–≤0.1%
1476-11-5	cis-2,3-dichlorobut-2-ene	≥0–≤0.1%
97-63-2	ethyl methacrylate	≥0–<0.1%
60-29-7	diethyl ether	≥0–≤0.1%
64-17-5	ethanol	≥0–<0.1%
75-65-0	2-methylpropan-2-ol	≥0–≤0.1%
75-85-4	2-methylbutan-2-ol	≥0–≤0.1%
108-20-3	diisopropyl ether	≥0–≤0.1%
108-94-1	cyclohexanone	≥0–≤0.1%
110-54-3	n-hexane	≥0–<0.1%
126-99-8	chloroprene (stabilized)	≥0–<0.1%
544-10-5	1-chlorohexane	≥0–≤0.1%
637-92-3	propane, 2-ethoxy-2-methyl-	≥0–≤0.1%
762-75-4	tert-butyl formate	≥0–≤0.1%
994-05-8	2-methoxy-2-methylbutane	≥0–≤0.1%

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.

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- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult 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.
- **Special hazards arising from the substance or mixture** During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Dilute with plenty of water.
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 section 13.
Ensure adequate ventilation.
- **Protective Action Criteria for Chemicals**

· PAC-1:

67-56-1	methanol	530 ppm
78-83-1	butanol	150 ppm
123-91-1	1,4-dioxane	17 ppm
109-99-9	tetrahydrofuran	100 ppm
74-88-4	methyl iodide	25 ppm
74-97-5	bromochloromethane	600 ppm
76-01-7	pentachloroethane	130 mg/m ³
76-13-1	1,1,2-trichlorotrifluoroethane	1,250 ppm
80-62-6	methyl methacrylate	17 ppm
87-61-6	1,2,3-trichlorobenzene	15 mg/m ³
87-68-3	hexachlorobuta-1,3-diene	1.0 ppm
95-49-8	2-chlorotoluene	75 ppm
95-63-6	1,2,4-trimethylbenzene	140 ppm
96-12-8	1,2-dibromo-3-chloropropane	0.030 mg/m ³
96-18-4	1,2,3-trichloropropane	0.015 ppm
98-06-6	tert-butylbenzene	7.5 mg/m ³
98-82-8	Cumene	50 ppm
99-87-6	p-cymene	120 mg/m ³
103-65-1	propylbenzene	3.7 ppm

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104-51-8	butylbenzene	3.6 ppm
106-43-4	4-chlorotoluene	1.2 ppm
106-93-4	1,2-dibromoethane	17 ppm
107-05-1	3-chloropropene	2.8 ppm
107-12-0	propanenitrile	0.27 ppm
108-67-8	mesitylene	140 ppm
108-86-1	bromobenzene	0.96 ppm
110-57-6	(2E)-1,4-dichloro-2-butene	0.078 ppm
142-28-9	1,3-dichloropropane	5.4 ppm
563-58-6	1,1-dichloropropene	10 mg/m ³
594-20-7	2,2-dichloropropane	2.6 ppm

PAC-2:

67-56-1	methanol	2100 ppm
78-83-1	butanol	1,300 ppm
123-91-1	1,4-dioxane	320 ppm
109-99-9	tetrahydrofuran	500 ppm
74-88-4	methyl iodide	50 ppm
74-97-5	bromochloromethane	830 ppm
76-01-7	pentachloroethane	730 mg/m ³
76-13-1	1,1,2-trichlorotrifluoroethane	3,900 ppm
80-62-6	methyl methacrylate	120 ppm
87-61-6	1,2,3-trichlorobenzene	60 mg/m ³
87-68-3	hexachlorobuta-1,3-diene	3.0 ppm
95-49-8	2-chlorotoluene	310 ppm
95-63-6	1,2,4-trimethylbenzene	360 ppm
96-12-8	1,2-dibromo-3-chloropropane	0.72 mg/m ³
96-18-4	1,2,3-trichloropropane	170 ppm
98-06-6	tert-butylbenzene	83 mg/m ³
98-82-8	Cumene	300 ppm
99-87-6	p-cymene	1,300 mg/m ³
103-65-1	propylbenzene	41 ppm
104-51-8	butylbenzene	370 mg/m ³
106-43-4	4-chlorotoluene	13 ppm
106-93-4	1,2-dibromoethane	24 ppm
107-05-1	3-chloropropene	54 ppm
107-12-0	propanenitrile	3 ppm
108-67-8	mesitylene	360 ppm
108-86-1	bromobenzene	79 mg/m ³
110-57-6	(2E)-1,4-dichloro-2-butene	0.86 ppm
142-28-9	1,3-dichloropropane	270 mg/m ³
563-58-6	1,1-dichloropropene	66 mg/m ³
594-20-7	2,2-dichloropropane	29 ppm

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· PAC-3:		
67-56-1	methanol	7200 ppm
78-83-1	butanol	8000* ppm
123-91-1	1,4-dioxane	760 ppm
109-99-9	tetrahydrofuran	5000* ppm
74-88-4	methyl iodide	125 ppm
74-97-5	bromochloromethane	5,000 ppm
76-01-7	pentachloroethane	1,200 mg/m ³
76-13-1	1,1,2-trichlorotrifluoroethane	4,500 ppm
80-62-6	methyl methacrylate	570 ppm
87-61-6	1,2,3-trichlorobenzene	360 mg/m ³
87-68-3	hexachlorobuta-1,3-diene	10 ppm
95-49-8	2-chlorotoluene	1,800 ppm
95-63-6	1,2,4-trimethylbenzene	470 ppm
96-12-8	1,2-dibromo-3-chloropropane	4.3 mg/m ³
96-18-4	1,2,3-trichloropropane	1,000 ppm
98-06-6	tert-butylbenzene	500 mg/m ³
98-82-8	Cumene	730 ppm
99-87-6	p-cymene	1,900 mg/m ³
103-65-1	propylbenzene	240 ppm
104-51-8	butylbenzene	2,200 mg/m ³
106-43-4	4-chlorotoluene	80 ppm
106-93-4	1,2-dibromoethane	46 ppm
107-05-1	3-chloropropene	140 ppm
107-12-0	propanenitrile	9.1 ppm
108-67-8	mesitylene	470 ppm
108-86-1	bromobenzene	470 mg/m ³
110-57-6	(2E)-1,4-dichloro-2-butene	3.8 ppm
142-28-9	1,3-dichloropropane	1600 mg/m ³
563-58-6	1,1-dichloropropene	400 mg/m ³
594-20-7	2,2-dichloropropane	170 ppm

· 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.

7 Handling and storage

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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

* 8 Exposure controls/personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

67-56-1 methanol	
PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV	Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm Skin; BEI
123-91-1 1,4-dioxane	
PEL	Long-term value: 360 mg/m ³ , 100 ppm Skin
REL	Ceiling limit value: 3.6* mg/m ³ , 1* ppm *30-min; See Pocket Guide App. A
TLV	Long-term value: 72 mg/m ³ , 20 ppm Skin, A3
109-99-9 tetrahydrofuran	
PEL	Long-term value: 590 mg/m ³ , 200 ppm
REL	Short-term value: 735 mg/m ³ , 250 ppm Long-term value: 590 mg/m ³ , 200 ppm
TLV	Short-term value: 295 mg/m ³ , 100 ppm Long-term value: 147 mg/m ³ , 50 ppm Skin, A3, BEI
74-88-4 methyl iodide	
PEL	Long-term value: 28 mg/m ³ , 5 ppm Skin
REL	Long-term value: 10 mg/m ³ , 2 ppm Skin; See Pocket Guide App. A
TLV	Long-term value: 12 mg/m ³ , 2 ppm Skin
76-01-7 pentachloroethane	
REL	Handle with caution; See Pocket Guide App. C

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80-62-6 methyl methacrylate	
PEL	Long-term value: 410 mg/m ³ , 100 ppm
REL	Long-term value: 410 mg/m ³ , 100 ppm
TLV	Short-term value: 410 mg/m ³ , 100 ppm Long-term value: 205 mg/m ³ , 50 ppm DSEN, A4
87-68-3 hexachlorobuta-1,3-diene	
REL	Long-term value: 0.24 mg/m ³ , 0.02 ppm Skin; See Pocket Guide App. A
TLV	Long-term value: 0.21 mg/m ³ , 0.02 ppm Skin, A3
96-12-8 1,2-dibromo-3-chloropropane	
PEL	Long-term value: 0.001 ppm see 29 CFR 1910.1044
REL	See Pocket Guide App. A
96-18-4 1,2,3-trichloropropane	
PEL	Long-term value: 300 mg/m ³ , 50 ppm
REL	Long-term value: 60 mg/m ³ , 10 ppm Skin, See Pocket Guide App. A
TLV	Long-term value: 0.03 mg/m ³ , 0.005 ppm A2
98-82-8 Cumene	
PEL	Long-term value: 245 mg/m ³ , 50 ppm Skin
REL	Long-term value: 245 mg/m ³ , 50 ppm Skin
TLV	Long-term value: 25 mg/m ³ , 5 ppm A3
106-93-4 1,2-dibromoethane	
PEL	Long-term value: 20 ppm Ceiling limit value: 30; 50* ppm *5-min peak per 8-hr shift
REL	Long-term value: 0.045 ppm Ceiling limit value: 0.13* ppm *15-min; See Pocket Guide App. A
TLV	Skin, A3
107-05-1 3-chloropropene	
PEL	Long-term value: 3 mg/m ³ , 1 ppm
REL	Short-term value: 6 mg/m ³ , 2 ppm Long-term value: 3 mg/m ³ , 1 ppm
TLV	Short-term value: 6 mg/m ³ , 2 ppm Long-term value: 3 mg/m ³ , 1 ppm Skin, A3
630-20-6 1,1,1,2-Tetrachloroethane	
REL	Handle with caution; See Pocket Guide App. C

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126-98-7 methacrylonitrile

REL	Long-term value: 3 mg/m ³ , 1 ppm Skin
TLV	Long-term value: 2.7 mg/m ³ , 1 ppm Skin, A4

· **Ingredients with biological limit values:****67-56-1 methanol**

BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
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· **Additional information:** The lists that were valid during the creation were used as basis.· **Exposure controls**· **Appropriate engineering controls** No further data; see section 7.· **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:**

Protective gloves

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.

· **Eye protection:**

Tightly sealed goggles

· **Body protection:** Protective work clothing

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* 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Physical state	Liquid
· Color:	Colorless
· Odor:	Alcohol-like
· Odor threshold:	Not determined.
· Melting point/Melting range:	-98 °C (-144.4 °F)
· Boiling point/Boiling range:	64.7 °C (148.5 °F)
· Flammability:	Highly flammable.
· Explosion limits:	
· Lower:	5.5 Vol %
· Upper:	44 Vol %
· Flash point:	11 °C (51.8 °F)
· Auto igniting:	455 °C (851 °F)
· Decomposition temperature:	Not determined.
· pH-value:	Not determined.
· Viscosity:	
· Kinematic:	Not determined.
· Dynamic:	Not determined.
· Solubility in / Miscibility with	
· Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)
· Vapor pressure:	
· Density at 20 °C (68 °F):	0.79 g/cm ³ (6.59255 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Particle characteristics	Not applicable.

· Other information

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Solvent content:	
· Organic solvents:	93.1–97.7 %
· VOC content:	93.07–97.59 %
	975.9–976.9 g/l / 8.14–8.15 lb/gal
· Solids content:	0–0.2 %
· Change in condition	
· Evaporation rate	Not determined.

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.

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- **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:**

ATE (Acute Toxicity Estimate)

Inhalative	LC50/4 h	3.14–3.23 mg/l
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67-56-1 methanol

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

123-91-1 1,4-dioxane

Oral	LD50	5,700 mg/kg (mouse)
Dermal	LD50	7,600 mg/kg (rabbit)
Inhalative	LC50/4 h	46 mg/l (rat)

109-99-9 tetrahydrofuran

Oral	LD50	2,500 mg/kg (rat)
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80-62-6 methyl methacrylate

Oral	LD50	7,872 mg/kg (rat)
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96-12-8 1,2-dibromo-3-chloropropane

Oral	LD50	170 mg/kg (rat)
Dermal	LD50	1,420 mg/kg (rat)

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

Oral	LD50	320 mg/kg (rat)
Dermal	LD50	1,770 mg/kg (rabbit)

98-82-8 Cumene

Oral	LD50	1,400 mg/kg (rat)
Dermal	LD50	12,300 mg/kg (rabbit)
Inhalative	LC50/4 h	24.7 mg/l (mouse)

103-65-1 propylbenzene

Oral	LD50	6,040 mg/kg (rat)
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106-93-4 1,2-dibromoethane

Oral	LD50	108 mg/kg (rat)
Dermal	LD50	300 mg/kg (rabbit)

107-05-1 3-chloropropene

Oral	LD50	700 mg/kg (rat)
Dermal	LD50	2,066 mg/kg (rabbit)

126-98-7 methacrylonitrile

Oral	LD50	120 mg/kg (rat)
Dermal	LD50	320 mg/kg (rabbit)

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- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Toxic
Irritant
The product can cause inheritable damage.
- **Interactive effects** No interactive effects between components are known.
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
123-91-1	1,4-dioxane	2B
109-99-9	tetrahydrofuran	2B
74-88-4	methyl iodide	3
76-01-7	pentachloroethane	3
80-62-6	methyl methacrylate	3
87-68-3	hexachlorobuta-1,3-diene	3
96-12-8	1,2-dibromo-3-chloropropane	2B
96-18-4	1,2,3-trichloropropane	2A
98-82-8	Cumene	2B
106-93-4	1,2-dibromoethane	2A
107-05-1	3-chloropropene	3
110-57-6	(2E)-1,4-dichloro-2-butene	3
630-20-6	1,1,1,2-Tetrachloroethane	2B
64-17-5	ethanol	1
108-94-1	cyclohexanone	3
126-99-8	chloroprene (stabilized)	2B

· NTP (National Toxicology Program)		
123-91-1	1,4-dioxane	R
96-12-8	1,2-dibromo-3-chloropropane	R
96-18-4	1,2,3-trichloropropane	R
98-82-8	Cumene	R
106-93-4	1,2-dibromoethane	R
126-99-8	chloroprene (stabilized)	R

· OSHA-Ca (Occupational Safety & Health Administration)		
96-12-8	1,2-dibromo-3-chloropropane	

- **Alternative sources for toxicological information** No non-standard sources for toxicological information where used.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

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· Results of PBT and vPvB assessment

· PBT:	
87-61-6	1,2,3-trichlorobenzene
87-68-3	hexachlorobuta-1,3-diene
· vPvB:	
87-68-3	hexachlorobuta-1,3-diene

· Other adverse effects

· Additional ecological information:

· General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

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.

· Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

· UN-Number	
· DOT, IMDG, IATA	
UN1992	
· UN proper shipping name	
· DOT	
Flammable liquids, toxic, n.o.s. (Methanol)	
· IMDG	
FLAMMABLE LIQUID, TOXIC, N.O.S. (METHANOL)	
· IATA	
Flammable liquid, toxic, n.o.s. (METHANOL)	
· Transport hazard class(es)	
· DOT	
 	
· Class	
3 Flammable liquids	
· Label	
3, 6.1	
· IMDG	
 	
· Class	
3 Flammable liquids	

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· Label	3/6.1
· IATA	
 	
· Class	3 Flammable liquids
· Label	3 (6.1)
· Packing group	
· DOT, IMDG, IATA	II
· Environmental hazards:	Not applicable.
· Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L
· 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
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code):	336
· EMS Number:	F-E,S-D
· Segregation groups	(SGG10) Liquid halogenated hydrocarbons
· Stowage Category	B
· Stowage Code	SW2 Clear of living quarters.
· UN "Model Regulation":	UN 1992 FLAMMABLE LIQUID, 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):	
107-12-0	propanenitrile
110-57-6	(2E)-1,4-dichloro-2-butene
126-98-7	methacrylonitrile
· Section 313 (Specific toxic chemical listings):	
67-56-1	methanol
123-91-1	1,4-dioxane
74-88-4	methyl iodide
76-01-7	pentachloroethane

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76-13-1	1,1,2-trichlorotrifluoroethane
80-62-6	methyl methacrylate
87-61-6	1,2,3-trichlorobenzene
87-68-3	hexachlorobuta-1,3-diene
95-63-6	1,2,4-trimethylbenzene
96-12-8	1,2-dibromo-3-chloropropane
96-18-4	1,2,3-trichloropropane
98-82-8	Cumene
106-93-4	1,2-dibromoethane
107-05-1	3-chloropropene
110-57-6	(2E)-1,4-dichloro-2-butene
630-20-6	1,1,1,2-Tetrachloroethane
126-98-7	methacrylonitrile
75-65-0	2-methylpropan-2-ol
110-54-3	n-hexane
126-99-8	chloroprene (stabilized)

TSCA (Toxic Substances Control Act):

67-56-1	methanol	ACTIVE
78-83-1	butanol	ACTIVE
123-91-1	1,4-dioxane	ACTIVE
624-95-3	3,3-dimethylbutan-1-ol	ACTIVE
109-99-9	tetrahydrofuran	ACTIVE
74-88-4	methyl iodide	ACTIVE
74-97-5	bromochloromethane	ACTIVE
76-01-7	pentachloroethane	ACTIVE
76-13-1	1,1,2-trichlorotrifluoroethane	ACTIVE
80-62-6	methyl methacrylate	ACTIVE
87-61-6	1,2,3-trichlorobenzene	ACTIVE
87-68-3	hexachlorobuta-1,3-diene	ACTIVE
95-49-8	2-chlorotoluene	ACTIVE
95-63-6	1,2,4-trimethylbenzene	ACTIVE
96-12-8	1,2-dibromo-3-chloropropane	ACTIVE
96-18-4	1,2,3-trichloropropane	ACTIVE
98-06-6	tert-butylbenzene	ACTIVE
98-82-8	Cumene	ACTIVE
99-87-6	p-cymene	ACTIVE
103-65-1	propylbenzene	ACTIVE
104-51-8	butylbenzene	ACTIVE
106-43-4	4-chlorotoluene	ACTIVE
106-93-4	1,2-dibromoethane	ACTIVE
107-05-1	3-chloropropene	ACTIVE
107-12-0	propanenitrile	ACTIVE
108-67-8	mesitylene	ACTIVE

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108-70-3	1,3,5-trichlorobenzene	ACTIVE
108-86-1	bromobenzene	ACTIVE
110-57-6	(2E)-1,4-dichloro-2-butene	ACTIVE
142-28-9	1,3-dichloropropane	ACTIVE

· Hazardous Air Pollutants

67-56-1	methanol
123-91-1	1,4-dioxane
74-88-4	methyl iodide
80-62-6	methyl methacrylate
87-68-3	hexachlorobuta-1,3-diene
96-12-8	1,2-dibromo-3-chloropropane
98-82-8	Cumene
106-93-4	1,2-dibromoethane
107-05-1	3-chloropropene
110-54-3	n-hexane
126-99-8	chloroprene (stabilized)

· Proposition 65**· Chemicals known to cause cancer:**

123-91-1	1,4-dioxane
109-99-9	tetrahydrofuran
74-88-4	methyl iodide
87-68-3	hexachlorobuta-1,3-diene
96-12-8	1,2-dibromo-3-chloropropane
96-18-4	1,2,3-trichloropropane
98-82-8	Cumene
106-93-4	1,2-dibromoethane
630-20-6	1,1,1,2-Tetrachloroethane
126-99-8	chloroprene (stabilized)

· 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
110-54-3	n-hexane

· Chemicals known to cause developmental toxicity:

67-56-1	methanol
106-93-4	1,2-dibromoethane
64-17-5	ethanol

· Carcinogenic categories**· EPA (Environmental Protection Agency)**

123-91-1	1,4-dioxane	L
109-99-9	tetrahydrofuran	SC

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74-97-5	bromochloromethane	D
80-62-6	methyl methacrylate	E, NL
87-68-3	hexachlorobuta-1,3-diene	C
95-63-6	1,2,4-trimethylbenzene	II
96-18-4	1,2,3-trichloropropane	L
98-82-8	Cumene	D, CBD
106-93-4	1,2-dibromoethane	L
107-05-1	3-chloropropene	C
108-67-8	mesitylene	II
108-86-1	bromobenzene	II
630-20-6	1,1,1,2-Tetrachloroethane	C
75-65-0	2-methylpropan-2-ol	SC
110-54-3	n-hexane	II
126-99-8	chloroprene (stabilized)	L
637-92-3	propane, 2-ethoxy-2-methyl-	SC

· **TLV (Threshold Limit Value)**

123-91-1	1,4-dioxane	A3
109-99-9	tetrahydrofuran	A3
76-13-1	1,1,2-trichlorotrifluoroethane	A4
80-62-6	methyl methacrylate	A4
87-68-3	hexachlorobuta-1,3-diene	A3
96-18-4	1,2,3-trichloropropane	A3
106-93-4	1,2-dibromoethane	A3
107-05-1	3-chloropropene	A3
64-17-5	ethanol	A3
75-65-0	2-methylpropan-2-ol	A4
108-94-1	cyclohexanone	A3

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

123-91-1	1,4-dioxane
74-88-4	methyl iodide
87-68-3	hexachlorobuta-1,3-diene
96-12-8	1,2-dibromo-3-chloropropane
96-18-4	1,2,3-trichloropropane
106-93-4	1,2-dibromoethane
126-99-8	chloroprene (stabilized)

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

GHS02



GHS06



GHS07



GHS08

· **Signal word** Danger

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· **Hazard-determining components of labeling:**

methanol
 1,4-dioxane
 1,2-dibromo-3-chloropropane
 (2E)-1,4-dichloro-2-butene
 methyl methacrylate
 hexachlorobuta-1,3-diene
 methacrylonitrile

· **Hazard statements**

Highly flammable liquid and vapor.
 Toxic if inhaled.
 May cause an allergic skin reaction.
 May cause genetic defects.
 May cause cancer.
 May damage fertility or the unborn child.
 Causes damage to the central nervous system and the visual organs.

· **Precautionary statements**

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Ground / bond container and receiving equipment.
 Use explosion-proof [electrical/ventilating/lighting] equipment.
 Use non-sparking tools.
 Take action to prevent 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.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 If inhaled: Remove person to fresh air and keep comfortable for breathing.
 IF exposed or concerned: Get medical advice/attention.
 Take off contaminated clothing and wash it before reuse.
 If skin irritation or rash occurs: Get medical advice/attention.
 Specific treatment (see on this label).
 In case of fire: Use CO₂, powder or water spray to extinguish.
 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.

· **National regulations:**

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· **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.

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· **Contact:** - Department Technical Manager· **Date of previous version** 04/12/2024· **Date of preparation** 06/30/2026· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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

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

Flammable liquids 2: Flammable liquids – Category 2

Acute toxicity - inhalation 3: Acute toxicity – Category 3

Sensitization - skin 1: Skin sensitisation – Category 1

Germ cell mutagenicity 1B: Germ cell mutagenicity – Category 1B

Carcinogenicity 1A: Carcinogenicity – Category 1A

Reproductive toxicity 1A: Reproductive toxicity – Category 1A

Specific target organ toxicity (single exposure) 1: Specific target organ toxicity (single exposure) – Category 1

· *** Data compared to the previous version altered.**