

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Liquid Volatile Organic Compounds Mixture-502/524/8021A/82

Revision date: 08/25/2025

Product code: M-LVOC1M5

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1. Identification

Product identifier

Liquid Volatile Organic Compounds Mixture-502/524/8021A/82

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Reagents and laboratory chemicals
Only for laboratory and analysis purposes.

Uses advised against

Do not use for private purposes (household).

Details of the supplier of the safety data sheet

Company name:	Chem Service, Inc. an analytichem company
Street:	660 Tower Lane
Place:	USA-PA 19381-0599 West Chester, United States
Telephone:	800-452-9994 / 610-692-3026
E-mail:	info@chemservice.com
Contact person:	SDS service department
E-mail:	SDS@analytichem.com
Internet:	www.chemservice.com
Responsible Department:	SDS service department
<u>Emergency phone number:</u>	Chemtrec US 800-424-9300 / Chemtrec outside US +1 703-527-3887

Further Information

No data available

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

Flammable liquids: Flam. Liq. 2
Carcinogenicity: Carc. 1A
Germ cell mutagenicity: Muta. 1B
Reproductive toxicity: Repr. 1A
Acute toxicity: Acute Tox. 3 (inhalation)
Acute toxicity: Acute Tox. 3 (dermal)
Acute toxicity: Acute Tox. 3 (oral)
Respiratory or skin sensitization: Skin Sens. 1
Specific target organ toxicity single exposure: STOT SE 1
Hazardous to the aquatic environment: Aquatic Chronic 2
Hazardous for the ozone layer: Ozone 1

Label elements

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Signal word: Danger

Pictograms:



Hazard statements

Highly flammable liquid and vapor
Toxic if swallowed, in contact with skin or if inhaled

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May cause an allergic skin reaction
May cause genetic defects
May cause cancer
May damage fertility or the unborn child
Causes damage to organs
Toxic to aquatic life with long lasting effects
Harms public health and the environment by destroying ozone in the upper atmosphere

Precautionary statements

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
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 mist/vapors/spray.
Wash hands 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 and eye protection/face protection.
If swallowed: Immediately call a poison center/doctor.
Rinse mouth.
If on skin: Wash with plenty of water.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Call a poison center/doctor if you feel unwell.
Take off immediately all contaminated clothing and wash it before reuse.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a poison center/doctor.
If exposed: Call a poison center or doctor/physician.
Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point.

Special labelling of certain mixtures

Warning: Contains "bromo chloro methane; bromochloromethane", 1,1,1-trichloroethane, carbon tetrachloride, a substance which harms public health and environment by destroying ozone in the upper atmosphere.

Hazards not otherwise classified

No data available

3. Composition/information on ingredients

Mixtures

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Relevant ingredients

CAS No	Components	Quantity
67-56-1	methanol	89.2 %
630-20-6	1,1,1,2-Tetrachloroethane	0.2 %
95-49-8	2-chlorotoluene	0.2 %
106-43-4	4-chlorotoluene	0.2 %
541-73-1	1,3-dichlorobenzene	0.2 %
106-46-7	"1,4-dichlorobenzene; p-dichlorobenzene"	0.2 %
87-61-6	1,2,3-trichlorobenzene	0.2 %
120-82-1	1,2,4-trichlorobenzene	0.2 %
75-35-4	"1,1-dichloroethylene; vinylidene chloride"	0.2 %
79-00-5	1,1,2-trichloroethane	0.2 %
75-34-3	1,1-dichloroethane	0.2 %
563-58-6	1,1-dichloropropene	0.2 %
96-18-4	1,2,3-trichloropropane	0.2 %
96-12-8	1,2-dibromo-3-chloropropane	0.2 %
78-87-5	"1,2-dichloropropane; propylene dichloride"	0.2 %
142-28-9	1,3-dichloropropane	0.2 %
594-20-7	2,2-Dichloropropane	0.2 %
108-86-1	bromobenzene	0.2 %
74-97-5	"bromo chloro methane; bromochloromethane"	0.2 %
156-59-2	cis-dichloroethylene	0.2 %
10061-01-5	(Z)-1,3-dichloropropene	0.2 %
74-95-3	dibromomethane	0.2 %
87-68-3	"hexachloro-1,3-butadiene; hexachlorobutadiene; hexachlorobuta-1,3-diene"	0.2 %
104-51-8	n-butylbenzene	0.2 %
99-87-6	"1-isopropyl-4-methylbenzene; p-cymene"	0.2 %
135-98-8	sec-butylbenzene	0.2 %
98-06-6	tert-butylbenzene	0.2 %
156-60-5	trans-dichloroethylene	0.2 %
10061-02-6	(E)-1,3-Dichloroprop-1-ene	0.2 %
71-43-2	benzene	0.2 %
71-55-6	1,1,1-trichloroethane	0.2 %
75-09-2	dichloromethane	0.2 %
75-25-2	bromoform	0.2 %
75-27-4	bromodichloromethane	0.2 %
79-01-6	trichloroethylene	0.2 %
56-23-5	carbon tetrachloride	0.2 %
79-34-5	1,1,2,2-tetrachloroethane	0.2 %
91-20-3	naphthalene	0.2 %
95-47-6	xylene (o)	0.2 %
95-50-1	1,2-dichlorobenzene	0.2 %

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95-63-6	1,2,4-trimethyl-benzene	0.2 %
98-82-8	isopropylbenzene	0.2 %
100-41-4	ethylbenzene	0.2 %
100-42-5	styrene	0.2 %
103-65-1	propylbenzene	0.2 %
106-42-3	xylene (p)	0.2 %
106-93-4	1,2-dibromoethane	0.2 %
107-06-2	1,2-dichloroethane	0.2 %
108-38-3	xylene (m)	0.2 %
108-67-8	mesitylene	0.2 %
108-88-3	toluene	0.2 %
108-90-7	chlorobenzene	0.2 %
124-48-1	dibromochloromethane	0.2 %
127-18-4	tetrachloroethylene	0.2 %
67-66-3	trichloromethane	0.2 %

Further Information

Contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: 1,2-dichloroethane, trichloroethylene

4. First-aid measures

Description of first aid measures

General information

Obtain special instructions before use.

First aider: Pay attention to self-protection!

After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

Call a physician immediately.

After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water.

Remove contact lenses, if present and easy to do. Continue rinsing.

Consult an ophthalmologist.

Call a physician immediately.

After ingestion

Provide fresh air.

Call a physician immediately.

Notes for the doctor : Methanol

Most important symptoms and effects, both acute and delayed

Irritant, Dizziness

Dizziness, Anaesthetic state

Agitation, Spasms

Inebriation, Vomiting

Headache, Impairment of vision

Repeated exposure may cause skin dryness or cracking.

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Allergic reactions

Indication of any immediate medical attention and special treatment needed

No data available

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Water spray jet, Carbon dioxide (CO₂), Foam, Extinguishing powder.

Unsuitable extinguishing media

No data available

Specific hazards arising from the chemical

Combustible liquids

Hazardous combustion products

In case of fire may be liberated: Carbon dioxide, Carbon monoxide

Vapors are heavier than air, spread along floors and form explosive mixtures with air.

Beware of reignition.

Heating causes rise in pressure with risk of bursting.

Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

Wear full chemical protective clothing.

In case of fire and/or explosion do not breathe fumes.

Additional information

Use water spray jet to protect personnel and to cool endangered containers.

Move undamaged containers from immediate hazard area if it can be done safely.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

Take precautionary measures against static discharge.

For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Consult an expert

Do not breathe dust/fume/gas/mist/vapors/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment (PPE): see section 8

Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

Do not allow to enter into surface water or drains.

The vapors are heavier than air and can accumulate in high concentrations on the ground, in cavities, channels and cellars.

Danger of explosion

Methods and material for containment and cleaning up

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For containment

- Cover drains.
- Prevent spread over a wide area (e.g. by containment or oil barriers).
- Collect in closed and suitable containers for disposal.
- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

- Clean contaminated articles and floor according to the environmental legislation.

Other information

- Provide adequate ventilation.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wear breathing apparatus if exposed to vapors/dusts/aerosols.

Reference to other sections

- Safe handling: see section 7
- Personal protection equipment (PPE): see section 8
- Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

- Avoid exposure - obtain special instructions before use.
- If handled uncovered, arrangements with local exhaust ventilation have to be used.
- Read label before use. Handle and open container with care.
- When using do not eat, drink, smoke, sniff. Keep container tightly closed.
- Use personal protection equipment. Use extractor hood (laboratory).
- Do not breathe gas/fume/vapor/spray. Provide adequate ventilation.

Advice on protection against fire and explosion

- Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.
- Vapors may form explosive mixtures with air.

Advice on general occupational hygiene

- Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.
- Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of the protective agents should be clarified with their suppliers.

Further information on handling

- Take off immediately all contaminated clothing and wash it before reuse.
- Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

- Keep in a cool, well-ventilated place.
- Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

- Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

Further information on storage conditions

- Keep cool. Protect from sunlight.

8. Exposure controls/personal protection

Control parameters

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Exposure limits

CAS No	Substance	ppm	mg/m ³	Category	Origin
630-20-6	1,1,1,2-Tetrachloroethane (Chloroethanes)			as low as possible	REL
79-34-5	1,1,2,2-Tetrachloroethane (Chloroethanes)	1	7	TWA (8 h)	REL
79-34-5	1,1,2,2-Tetrachloroethane	1	6.9	TWA (8 h)	ACGIH-2024
79-34-5	1,1,2,2-Tetrachloro-ethane	5	35	TWA (8 h)	REL
79-00-5	1,1,2-Trichloroethane (Chloroethanes)	10	45	TWA (8 h)	REL
79-00-5	1,1,2-Trichloroethane	10	45	TWA (8 h)	REL
		10	55	TWA (8 h)	ACGIH-2024
75-34-3	1,1-Dichloroethane (Chloroethanes)	100	400	TWA (8 h)	REL
75-34-3	1,1-Dichloroethane	100	400	TWA (8 h)	REL
		100	405	TWA (8 h)	ACGIH-2024
96-18-4	1,2,3-Trichloropropane	50	300	TWA (8 h)	REL
		10	60	TWA (8 h)	REL
		0.005	0.03	TWA (8 h)	ACGIH-2024
120-82-1	1,2,4-Trichlorobenzene	C 5	C 40	Ceiling	REL
		5	37	Peak	ACGIH-2024
95-63-6	1,2,4-Trimethylbenzene	25	125	TWA (8 h)	REL
		10		TWA (8 h)	ACGIH-2024
96-12-8	1,2-Dibromo-3- chloropropane (DBCP)	1	-	TWA (8 h)	REL
96-12-8	1,2-Dibromo-3-chloropropane			as low as possible	REL
156-59-2	1,2-Dichloroethylene: cis-isomer	200	793	TWA (8 h)	ACGIH-2024
156-60-5	1,2-Dichloroethylene: trans-isomer	200	793	TWA (8 h)	ACGIH-2024
108-67-8	1,3,5-Trimethylbenzene	25	125	TWA (8 h)	REL
		10		TWA (8 h)	ACGIH-2024
71-43-2	Benzene	1	5	TWA (8 h)	REL
		10	-	TWA (8 h)	REL
		C 25	-	Ceiling	REL
		50	-	Peak (10 min)	REL
71-43-2	Benzene	0.1	-	TWA (8 h)	REL
		1	-	STEL (15 min)	REL
71-43-2	Benzene	0.02		TWA (8 h)	ACGIH-2024
75-25-2	Bromoform	0.5	5	TWA (8 h)	REL
		0.5	5	TWA (8 h)	REL
		0.5	5.2	TWA (8 h)	ACGIH-2024
56-23-5	Carbon tetrachloride (Tetrachloromethane)	5	31	TWA (8 h)	ACGIH-2024
		10	63	STEL (15 min)	ACGIH-2024
56-23-5	Carbon tetrachloride	10	-	TWA (8 h)	REL
		C 25	-	Ceiling	REL
		200	-	5 min	REL

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56-23-5	Carbon tetrachloride	2	12.6	60 min	REL
108-90-7	Chlorobenzene	75	350	TWA (8 h)	REL
		10	46	TWA (8 h)	ACGIH-2024
74-97-5	Chlorobromomethane	200	1050	TWA (8 h)	REL
		200	1050	TWA (8 h)	REL
		200	1060	TWA (8 h)	ACGIH-2024
67-66-3	Chloroform (Trichloromethane)	C 50	C 240	Ceiling	REL
67-66-3	Chloroform	2	9.78	60 min	REL
		10	49	TWA (8 h)	ACGIH-2024
98-82-8	Cumene	50	245	TWA (8 h)	REL
		50	245	TWA (8 h)	REL
		5	25	TWA (8 h)	ACGIH-2024
75-09-2	Dichloromethane	50	174	TWA (8 h)	ACGIH-2024
100-41-4	Ethyl benzene	100	435	TWA (8 h)	REL
		100	435	TWA (8 h)	REL
		125	545	STEL (15 min)	REL
100-41-4	Ethyl benzene	20		TWA (8 h)	ACGIH-2024
106-93-4	Ethylene dibromide	20	-	TWA (8 h)	REL
		C 30	-	Ceiling	REL
		50	-	Peak (5 min)	REL
106-93-4	Ethylene dibromide	0.045	-	TWA (8 h)	REL
		C 0.13	-	15 min	REL
107-06-2	Ethylene dichloride (1,2-Dichloroethane)	50	-	TWA (8 h)	REL
		C 100	-	Ceiling	REL
		200	-	5 min	REL
107-06-2	Ethylene dichloride (Chloroethanes)	1	4	TWA (8 h)	REL
		2	8	STEL (15 min)	REL
107-06-2	Ethylene dichloride	10	40	TWA (8 h)	ACGIH-2024
87-68-3	Hexachlorobutadiene	0.02	0.24	TWA (8 h)	REL
		0.02	0.21	TWA (8 h)	ACGIH-2024
67-56-1	Methanol	200	262	TWA (8 h)	ACGIH-2024
		250	328	STEL (15 min)	ACGIH-2024
67-56-1	Methyl alcohol	200	260	TWA (8 h)	REL
		200	260	TWA (8 h)	REL
		250	325	STEL (15 min)	REL
71-55-6	Methyl chloroform (1,1,1-Trichloro-ethane)	350	1900	TWA (8 h)	REL
71-55-6	Methyl chloroform (Chloroethanes)	C 350	C 1900	15 min	REL
71-55-6	Methyl chloroform	350	1910	TWA (8 h)	ACGIH-2024
		450	2460	STEL (15 min)	ACGIH-2024
75-09-2	Methylene chloride	25	-	TWA (8 h)	REL
		C 125	-	Ceiling	REL
75-09-2	Methylene chloride			as low as possible	REL

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108-38-3	m-Xylene	100	435	TWA (8 h)	REL
		150	655	STEL (15 min)	REL
91-20-3	Naphthalene	10	50	TWA (8 h)	REL
		10	50	TWA (8 h)	REL
		15	75	STEL (15 min)	REL
		10	52	TWA (8 h)	ACGIH-2024
95-49-8	o-Chlorotoluene	50	250	TWA (8 h)	REL
		75	375	STEL (15 min)	REL
95-49-8	o-Chlorotoluene	50	259	TWA (8 h)	ACGIH-2024
95-50-1	o-Dichlorobenzene	C 50	C 300	Ceiling	REL
		C 50	C 300	Ceiling	REL
		25	150	TWA (8 h)	ACGIH-2024
		50	301	STEL (15 min)	ACGIH-2024
95-47-6	o-Xylene	100	435	TWA (8 h)	REL
		150	655	STEL (15 min)	REL
106-46-7	p-Dichlorobenzene	75	450	TWA (8 h)	REL
				as low as possible	REL
		10	60	TWA (8 h)	ACGIH-2024
127-18-4	Perchloroethylene (Tetrachloroethylene)	100	-	TWA (8 h)	REL
		C 200	-	Ceiling	REL
		300	-	5 min	REL
78-87-5	Propylene dichloride	75	350	TWA (8 h)	REL
				as low as possible	REL
		10	46	TWA (8 h)	ACGIH-2024
106-42-3	p-Xylene	100	435	TWA (8 h)	REL
		150	655	STEL (15 min)	REL
100-42-5	Styrene	100	-	TWA (8 h)	REL
		C 200	-	Ceiling	REL
		600	-	5 min	REL
100-42-5	Styrene	50	215	TWA (8 h)	REL
		100	425	STEL (15 min)	REL
100-42-5	Styrene	10		TWA (8 h)	ACGIH-2024
		20		STEL (15 min)	ACGIH-2024
127-18-4	Tetrachloroethylene			as low as possible	REL
		25	170	TWA (8 h)	ACGIH-2024
		100	685	STEL (15 min)	ACGIH-2024
127-18-4	Tetrachloroethylene	100	-	TWA (8 h)	REL
		C 200	-	Ceiling	REL
		300	-	5 min	REL
108-88-3	Toluene	200	-	TWA (8 h)	REL
		C 300	-	Ceiling	REL

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		500	-	Peak (10 min)	REL
108-88-3	Toluene	100	375	TWA (8 h)	REL
		150	560	STEL (15 min)	REL
108-88-3	Toluene	20	-	TWA (8 h)	ACGIH-2024
79-01-6	Trichloroethylene	100	-	TWA (8 h)	REL
		C 200	-	Ceiling	REL
		300	-	5 min	REL
79-01-6	Trichloroethylene			as low as possible	REL
		10	54	TWA (8 h)	ACGIH-2024
		25	135	STEL (15 min)	ACGIH-2024
75-35-4	Vinylidene chloride			as low as possible	REL
		5	20	TWA (8 h)	ACGIH-2024
108-38-3	Xylene: m-xylene	20		TWA (8 h)	ACGIH-2024
95-47-6	Xylene: o-xylene	20		TWA (8 h)	ACGIH-2024
106-42-3	Xylene: p-xylene	20		TWA (8 h)	ACGIH-2024

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Biological Exposure Indices (BEI-ACGIH)

CAS No	Substance	Determinant	Value	Test material	Sampling time
67-56-1	METHANOL	Methanol	15 mg/L	urine	End of shift
71-43-2	BENZENE	S-Phenylmercapturic acid (creatinine)	25 µg/g	urine	End of shift
		t,t-Muconic acid (creatinine)	500 µg/g	urine	End of shift
71-55-6	METHYL CHLOROFORM	Methyl chloroform	20 ppm	end-exhaled air	Prior to last shift of workweek
		Methyl chloroform	700 µg/L	urine	End of shift
75-09-2	DICHLOROMETHANE	Dichloromethane	0.3 mg/L	urine	End of shift
79-01-6	TRICHLOROETHYLENE	Trichloroacetic acid	15 mg/L	urine	End of shift at end of workweek
		Trichloroethanol (without hydrolysis)	0.5 mg/L	blood	End of shift at end of workweek
		Trichloroethylene	-	blood	End of shift at end of workweek
		Trichloroethylene	-	end-exhaled air	End of shift at end of workweek
91-20-3	NAPHTHALENE	1-Naphthol (with hydrolysis) + 2-Naphthol (with hydrolysis)	-	-	End of shift
95-47-6	XYLENES (technical or commercial grade)	Methylhippuric acids (creatinine)	0.3 g/g	urine	End of shift
100-41-4	ETHYLBENZENE	Sum of mandelic acid and phenylglyoxylic acid (creatinine)	0.15 g/g	urine	End of shift
100-42-5	Styrene	Mandelic acid plus phenylglyoxylic acid (creatinine)	150 mg/g	urine	End of shift
		Styrene	20 µg/L	urine	End of shift
106-42-3	XYLENES (technical or commercial grade)	Methylhippuric acids (creatinine)	0.3 g/g	urine	End of shift
108-38-3	XYLENES (technical or commercial grade)	Methylhippuric acids (creatinine)	0.3 g/g	urine	End of shift
108-88-3	TOLUENE	Toluene	0.02 mg/L	blood	Prior to last shift of workweek
		Toluene	0.03 mg/L	urine	End of shift
		o-Cresol (with hydrolysis, creatinine)	0.3 mg/g	urine	End of shift
108-90-7	CHLOROBENZENE	4-Chlorocatechol (with hydrolysis, creatinine)	100 mg/g	urine	End of shift at end of workweek
		p-Chlorophenol (with hydrolysis, creatinine)	20 mg/g	urine	End of shift at end of workweek
127-18-4	TETRACHLOROETHYLENE	Tetrachloroethylene	3 ppm	end-exhaled air	Prior to shift
		Tetrachloroethylene	0.5 mg/L	blood	Prior to shift

Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

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Do not breathe gas/fume/vapor/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.
goggles
Face protection umbrella

Hand protection

Tested protective gloves must be worn
The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Skin protection

Wear suitable protective clothing.
Take off immediately all contaminated clothing and wash it before reuse.
Wash hands and face before breaks and after work and take a shower if necessary.
Draw up and observe skin protection programme.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation
The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. A respiratory protection program that meets OSHA's 29 CFR 1910.134 requirements must be followed whenever workplace conditions warrant a respirator's use.

Thermal hazards

No data available

Environmental exposure controls

Do not allow to enter into surface water or drains.
Due to danger of explosion, prevent leakage of vapors into cellars, flues and ditches.
Danger of explosion

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Liquid	
Color:	No data available	
Odor:	No data available	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and boiling range:		No data available
Flammability:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		No data available
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value:		No data available
Viscosity / kinematic:		No data available
Water solubility:		No data available
Solubility in other solvents		
No data available		
Dissolution rate:		No data available
Partition coefficient n-octanol/water:		No data available
Dispersion stability:		No data available

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Vapor pressure: (at 20 °C)	No data available
Vapor pressure: (at 50 °C)	No data available
Density:	No data available
Relative density:	No data available
Bulk density:	No data available
Relative vapour density:	No data available
Particle characteristics:	No data available

Other information

Information with regard to physical hazard classes

Explosive properties

Vapors may form explosive mixtures with air.

Sustained combustibility:

Sustained combustibility

Self-ignition temperature

Solid:

No data available

Gas:

No data available

Oxidizing properties

No data available

Other safety characteristics

Evaporation rate:

No data available

Solvent separation test:

No data available

Solvent content:

No data available

Solid content:

No data available

Sublimation point:

No data available

Softening point:

No data available

Pour point:

No data available

No data available:

Viscosity / dynamic:

No data available

Flow time:

No data available

Further Information

No data available

10. Stability and reactivity

Reactivity

Highly flammable.

Vapors may form explosive mixtures with air.

Chemical stability

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

Oxidising agent, Nitrogen oxides (NO_x), Potassium chlorate, peroxides, for example hydrogen peroxide, Nitric acid, sulphuric acid, , Acid halogen, Acetic anhydride, Maleic anhydride, Reducing agent, Acid, Bromine, Chlorine, Chloroform, Fluorine, Alkali metals, Alkaline earth metal;

Conditions to avoid

Vapors may form explosive mixtures with air.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials

Plastic articles

Zinc

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Hazardous decomposition products

SECTION 5: Fire fighting measures

Further information

No data available

11. Toxicological information

Route(s) of Entry

There are no data available on the mixture itself.

Information on toxicological effects

Toxicokinetics, metabolism and distribution

Avoid exposure - obtain special instructions before use.

Acute toxicity

Toxic if inhaled

Toxic in contact with skin

Toxic if swallowed

Irritation to respiratory tract

ATEmix calculated

ATE (oral) 112,1 mg/kg; ATE (dermal) 265,0 mg/kg

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CAS No	Components				
	Exposure route	Dose	Species	Source	Method
67-56-1	methanol				
	oral	LD50 mg/kg 6000	Monkey	Amer J Ophthalmol 40: 76-83 (cited in DG)	Determination of the acute toxicity of t
	dermal	ATE mg/kg 300			
	inhalation (4 h) vapour	LC50 mg/l 128,2	Rat	Study report (1980)	Study performed according to internal co
	inhalation dust/mist	ATE 0,5 mg/l			
630-20-6	1,1,1,2-Tetrachloroethane				
	oral	ATE mg/kg 500			
	dermal	ATE 5 mg/kg			
	inhalation vapour	ATE 3 mg/l			
	inhalation dust/mist	ATE 0,5 mg/l			
95-49-8	2-chlorotoluene				
	oral	ATE mg/kg 500			
	dermal	ATE mg/kg 1100			
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
106-43-4	4-chlorotoluene				
	oral	LD50 mg/kg 2100	Rat	GESTIS	
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
541-73-1	1,3-dichlorobenzene				
	oral	ATE mg/kg 500			
106-46-7	"1,4-dichlorobenzene; p-dichlorobenzene"				
	oral	ATE mg/kg 500			
	dermal	LD50 mg/kg > 12000	Rabbit	GESTIS	
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
87-61-6	1,2,3-trichlorobenzene				
	oral	ATE mg/kg 500			
120-82-1	1,2,4-trichlorobenzene				
	oral	ATE mg/kg 500			
75-35-4	"1,1-dichloroethylene; vinylidene chloride"				
	oral	ATE mg/kg 100			
	inhalation vapour	ATE 3 mg/l			
	inhalation dust/mist	ATE 0,5 mg/l			

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79-00-5	1,1,2-trichloroethane				
	oral	ATE	100		
		mg/kg			
	dermal	ATE	1100		
		mg/kg			
	inhalation vapour	ATE	3 mg/l		
	inhalation dust/mist	ATE	0,5 mg/l		
75-34-3	1,1-dichloroethane				
	oral	ATE	500		
		mg/kg			
563-58-6	1,1-dichloropropene				
	oral	ATE	100		
		mg/kg			
96-18-4	1,2,3-trichloropropane				
	oral	LD50	442	Rat	IUCLID
		mg/kg			
	dermal	ATE	300		
		mg/kg			
	inhalation vapour	ATE	3 mg/l		
	inhalation dust/mist	ATE	0,5 mg/l		
96-12-8	1,2-dibromo-3-chloropropane				
	oral	ATE	100		
		mg/kg			
	dermal	ATE	1100		
		mg/kg			
78-87-5	"1,2-dichloropropane; propylene dichloride"				
	oral	ATE	500		
		mg/kg			
	inhalation vapour	ATE	3 mg/l		
	inhalation dust/mist	ATE	0,5 mg/l		
108-86-1	bromobenzene				
	oral	LD50	3591	Rat	J. Appl. Toxicol. 4(6):320-325 (1984)
		mg/kg			- Principle of test: Single oral dose ad
74-97-5	"bromo chloro methane; bromochloromethane"				
	inhalation vapour	ATE	11 mg/l		
	inhalation dust/mist	ATE	1,5 mg/l		
156-59-2	cis-dichloroethylene				
	oral	ATE	500		
		mg/kg			
	inhalation vapour	ATE	11 mg/l		
	inhalation dust/mist	ATE	1,5 mg/l		
10061-01-5	(Z)-1,3-dichloropropene				
	oral	ATE	100		
		mg/kg			
	dermal	ATE	300		
		mg/kg			
	inhalation vapour	ATE	11 mg/l		
	inhalation dust/mist	ATE	1,5 mg/l		
74-95-3	dibromomethane				

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	oral	ATE mg/kg	100			
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			
87-68-3	"hexachloro-1,3-butadiene; hexachlorobutadiene; hexachlorobuta-1,3-diene"					
	oral	ATE mg/kg	100			
	dermal	ATE mg/kg	300			
	inhalation vapour	ATE	0,05 mg/l			
	inhalation dust/mist	ATE mg/l	0,005			
99-87-6	"1-isopropyl-4-methylbenzene; p-cymene"					
	inhalation vapour	ATE	3 mg/l			
135-98-8	sec-butylbenzene					
	oral	ATE mg/kg	500			
156-60-5	trans-dichloroethylene					
	oral	ATE mg/kg	500			
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			
10061-02-6	(E)-1,3-Dichloroprop-1-ene					
	oral	ATE mg/kg	100			
	dermal	ATE mg/kg	300			
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			
71-43-2	benzene					
	oral	LD50 mg/kg	> 2000	Rat	Toxic. Appl. Pharmac. 19, 699-704 (1971)	OECD Guideline 401
	inhalation (4 h) vapour	LC50 mg/l	13700	Rat	Toxic. Appl. Pharmacol. 27, 183-193 (197)	OECD Guideline 403
71-55-6	1,1,1-trichloroethane					
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			
75-09-2	dichloromethane					
	oral	LD50 mg/kg	> 2000	Rat	Other company data (1988)	OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rat	Other company data (1988)	OECD Guideline 402
75-25-2	bromoform					
	oral	ATE mg/kg	500			
	inhalation vapour	ATE	3 mg/l			
	inhalation dust/mist	ATE	0,5 mg/l			
75-27-4	bromodichloromethane					

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	oral	ATE mg/kg	500			
56-23-5	carbon tetrachloride					
	oral	ATE mg/kg	100			
	dermal	ATE mg/kg	300			
	inhalation vapour	ATE	0,5 mg/l			
	inhalation dust/mist	ATE	0,05 mg/l			
79-34-5	1,1,2,2-tetrachloroethane					
	oral	ATE mg/kg	100			
	dermal	ATE	5 mg/kg			
	inhalation vapour	ATE	0,5 mg/l			
	inhalation dust/mist	ATE	0,05 mg/l			
91-20-3	naphthalene					
	oral	LD50 mg/kg	710	Mouse	FUND. APPL. TOXICOL 4: 406-419 (1984) (1)	OECD Guideline 401
	dermal	LD50 mg/kg	> 16000	Rat	Study report (1980)	OECD Guideline 402
	inhalation (4 h) vapour	LC50 mg/l	> 77,7	Rat	Study report (1985)	other: EPA TSCA
95-47-6	xylene (o)					
	oral	LD50 mg/kg	3523	Rat	Study report (1986)	EU Method B.1
	dermal	LD50 mg/kg	12126	Rabbit	Publication (1962)	Single dermal dose under occlusion follo
	inhalation (4 h) vapour	LC50	6247 mg/l	Rat	Study report (1986)	EPA OPP 81-3
	inhalation dust/mist	ATE	1,5 mg/l			
95-50-1	1,2-dichlorobenzene					
	oral	LD50 mg/kg	> 2000	Rat	Publication (2001)	OECD Guideline 401
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			
95-63-6	1,2,4-trimethylbenzene					
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			
98-82-8	isopropylbenzene					
	oral	LD50 mg/kg	2700	Rat	Other company data (1978)	OECD Guideline 401
	dermal	LD50 mg/kg	> 3160	Rabbit	Other company data (1978)	1 New Zealand albino rabbit
100-41-4	ethylbenzene					
	oral	LD50 mg/kg	ca. 3500	Rat	AMA Arch. Ind. Health. 14:387-398. (1956)	No guideline available
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			
100-42-5	styrene					

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	oral	LD50 mg/kg	> 6000	hamster, Syrian	Scandinavian Journal of Work, Environmen	Determination of acute toxicity of styre
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2005)	OECD Guideline 402
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			
106-42-3	xylene (p)					
	dermal	ATE mg/kg	1100			
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			
106-93-4	1,2-dibromoethane					
	oral	ATE mg/kg	100			
	dermal	ATE mg/kg	300			
	inhalation vapour	ATE	3 mg/l			
	inhalation dust/mist	ATE	0,5 mg/l			
107-06-2	1,2-dichloroethane					
	oral	LD50 mg/kg	770	Rat	SIDS Initial Assessm	OECD Guideline 401
	dermal	LD50 mg/kg	4890	Rabbit	SIDS Initial Assessm	OECD Guideline 402
	inhalation vapour	ATE	3 mg/l			
	inhalation dust/mist	ATE	0,5 mg/l			
108-38-3	xylene (m)					
	oral	LD50 mg/kg	3523	Rat	Study report (1986)	EU Method B.1
	dermal	LD50 mg/kg	12126	Rabbit	Publication (1962)	Single dermal dose under occlusion follo
	inhalation (4 h) vapour	LC50	6247 mg/l	Rat	Study report (1986)	EPA OPP 81-3
	inhalation dust/mist	ATE	1,5 mg/l			
108-67-8	mesitylene					
	oral	LD50 mg/kg	6000	Rat	Study report (1980)	EU Method B.1
108-88-3	toluene					
	oral	LD50 mg/kg	5580	Rat	Toxicology 4, 5-15 (1975)	EU Method B.1
	dermal	LD50 mg/kg	> 5000	Rabbit	American Industrial Hygiene Association	Study investigated mortality in groups o
	inhalation (4 h) vapour	LC50	28,1 mg/l	Rat	Study report (1980)	OECD Guideline 403
108-90-7	chlorobenzene					
	oral	LD50 mg/kg	> 2000	Rat	Journal of toxicology and environmental	OECD Guideline 401
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			
124-48-1	dibromochloromethane					
	oral	ATE mg/kg	500			
67-66-3	trichloromethane					

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	oral	LD50 mg/kg	908	Rat	Toxicology and Applied Pharmacology 52,	OECD Guideline 401
	inhalation vapour	ATE	3 mg/l			
	inhalation dust/mist	ATE	0,5 mg/l			

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Has degreasing effect on the skin.

Sensitizing effects

May cause an allergic skin reaction ((Z)-1,3-dichloropropene; "hexachloro-1,3-butadiene; hexachlorobutadiene; hexachlorobuta-1,3-diene"; (E)-1,3-Dichloroprop-1-ene; carbon tetrachloride; 1,2-dichlorobenzene; tetrachloroethylene)

Carcinogenic/mutagenic/toxic effects for reproduction

May cause cancer (1,2,3-trichloropropane; 1,2-dibromo-3-chloropropane; "1,2-dichloropropane; propylene dichloride"; benzene; dichloromethane; bromodichloromethane; trichloroethylene; 1,2-dibromoethane; 1,2-dichloroethane; tetrachloroethylene)

May cause genetic defects (1,2-dibromo-3-chloropropane; benzene)

May damage fertility or the unborn child (1,2,3-trichloropropane; 1,2-dibromo-3-chloropropane; toluene)

Specific target organ toxicity (STOT) - single exposure

Causes damage to organs (methanol)
eyes, central nervous system

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA): 1,2-Dibromo-3-chloropropane (CAS 96-12-8) is listed. Benzene (CAS 71-43-2) is listed. Dichloromethane (Methylene Chloride) (CAS 75-09-2) is listed.

Carcinogenicity (IARC): 1,1,1,2-Tetrachloroethane (CAS 630-20-6) is listed in group 2B. meta-Dichlorobenzene (CAS 541-73-1) is listed in group 3. para-Dichlorobenzene (1,4-Dichlorobenzene) (CAS 106-46-7) is listed in group 2B. Vinylidene chloride (CAS 75-35-4) is listed in group 2B. 1,1,2-Trichloroethane (CAS 79-00-5) is listed in group 3. 1,2,3-Trichloropropane (CAS 96-18-4) is listed in group 2A. 1,2-Dibromo-3-chloropropane (CAS 96-12-8) is listed in group 2B. 1,2-Dichloropropane (CAS 78-87-5) is listed in group 1. Hexachlorobutadiene (CAS 87-68-3) is listed in group 3. Benzene (CAS 71-43-2) is listed in group 1. 1,1,1-Trichloroethane (CAS 71-55-6) is listed in group 2A. Dichloromethane (Methylene Chloride) (CAS 75-09-2) is listed in group 2A. Bromoform (CAS 75-25-2) is listed in group 3. Bromodichloromethane (CAS 75-27-4) is listed in group 2B. Trichloroethylene (CAS 79-01-6) is listed in group 1. Carbon tetrachloride (CAS 56-23-5) is listed in group 2B. 1,1,2,2-Tetrachloroethane (CAS 79-34-5) is listed in group 2B. Naphthalene (CAS 91-20-3) is listed in group 2B. ortho-Dichlorobenzene (CAS 95-50-1) is listed in group 3. Cumene (CAS 98-82-8) is listed in group 2B. Ethylbenzene (CAS 100-41-4) is listed in group 2B. Styrene (CAS 100-42-5) is listed in group 2A. 1,2-Dibromoethane (Ethylene Dibromide) (CAS 106-93-4) is listed in group 2A. 1,2-Dichloroethane (Ethylene Dichloride) (CAS 107-06-2) is listed in group 2B. Toluene (CAS 108-88-3) is listed in group 3. Chlorodibromomethane (CAS 124-48-1) is listed in group 3. Tetrachloroethylene (Perchloroethylene) (CAS 127-18-4) is listed in group 2A. Chloroform (CAS 67-66-3) is listed in group 2B.

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Carcinogenicity (NTP):

para-Dichlorobenzene (1,4-Dichlorobenzene) (CAS 106-46-7) is listed in group RAHC. 1,2,3-Trichloropropane (CAS 96-18-4) is listed in group RAHC. 1,2-Dibromo-3-chloropropane (CAS 96-12-8) is listed in group RAHC. Benzene (CAS 71-43-2) is listed in group Known. Dichloromethane (Methylene Chloride) (CAS 75-09-2) is listed in group RAHC. Bromodichloromethane (CAS 75-27-4) is listed in group RAHC. Trichloroethylene (CAS 79-01-6) is listed in group Known. Carbon tetrachloride (CAS 56-23-5) is listed in group RAHC. Naphthalene (CAS 91-20-3) is listed in group RAHC. Cumene (CAS 98-82-8) is listed in group RAHC. Styrene (CAS 100-42-5) is listed in group RAHC. 1,2-Dibromoethane (Ethylene Dibromide) (CAS 106-93-4) is listed in group RAHC. 1,2-Dichloroethane (Ethylene Dichloride) (CAS 107-06-2) is listed in group RAHC. Tetrachloroethylene (Perchloroethylene) (CAS 127-18-4) is listed in group RAHC. Chloroform (CAS 67-66-3) is listed in group RAHC.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

Information on other hazards

Endocrine disrupting properties

There are no data available on the mixture itself.

Other information

Irritation to respiratory tract

Repeated exposure may cause skin dryness or cracking.

Causes damage to organs.

Organs affected:

Liver and kidney damage

eyes

heart

Irreversible damage to the optic nerve.

Further information

Irritant, Dizziness, Dizziness, Anaesthetic state, Agitation, Spasms, Inebriation, Vomiting, Headache,

Impairment of vision

Repeated exposure may cause skin dryness or cracking.

The substance has delayed effects.

Other dangerous properties cannot be excluded.

12. Ecological information

Ecotoxicity

Toxic to aquatic life with long lasting effects

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CAS No	Components					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
67-56-1	methanol					
	Acute fish toxicity	LC50 15400 mg/l	96 h	Lepomis macrochirus	Bulletin of Environmental Contamination	other: EPA-660/3-75-009, 1975
	Acute algae toxicity	ErC50 ca. 22000 mg/l	96 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety 7	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 10000 mg/l	48 h	Daphnia magna	Water Research 23(4): 495-499 (1989)	other: DIN 38412 Teil 11
	Fish toxicity	NOEC 446,7 mg/l	28 d	Pimephales promelas	SAR and QSAR in Environmental Research,	Calculation performed with ECOSAR
	Crustacea toxicity	NOEC 208 mg/l	21 d	Daphnia magna	OECD QSAR Toolbox Report (2013)	Toxicity of the target chemical is predi
106-46-7	"1,4-dichlorobenzene; p-dichlorobenzene"					
	Acute algae toxicity	ErC50 77,5 mg/l	72 h		GESTIS	
96-18-4	1,2,3-trichloropropane					
	Acute fish toxicity	LC50 75 mg/l	96 h	Lepomis macrochirus	IUCLID	
	Acute crustacea toxicity	EC50 20 mg/l	48 h	Daphnia magna	IUCLID	
108-86-1	bromobenzene					
	Acute fish toxicity	LC50 5,6 mg/l	96 h	Pimephales promelas	GESTIS	
	Acute algae toxicity	ErC50 12,3 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Registration Dossier	other: Circular on Test Methods of New C
	Acute crustacea toxicity	EC50 15,7 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
71-43-2	benzene					
	Acute fish toxicity	LC50 5,3 mg/l	96 h	Oncorhynchus mykiss	Arch. Environm. Contam. Toxicol. 11,487-	OECD Guideline 203
	Acute algae toxicity	ErC50 32 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (2001)	OECD Guideline 201
	Acute crustacea toxicity	EC50 377 mg/l	48 h	other aquatic crustacea:	REACH Registration Dossier	Method: other
	Fish toxicity	NOEC 3,1 mg/l	28 d	Morone saxatilis	US Nat. Mar. Fish Serv. Fish. Bull. 74,6	Juvenile striped bass were exposed to be
	Crustacea toxicity	NOEC ca. 0,17 mg/l	20 d	other aquatic crustacea:	REACH Registration Dossier	Method: other
75-09-2	dichloromethane					
	Acute fish toxicity	LC50 193 mg/l	96 h	Pimephales promelas	Bull Environ Contam Toxicol 20, 344-352	According to test methods described by t
	Acute crustacea toxicity	EC50 27 mg/l	48 h	Daphnia magna	Study report (1979)	According EPA publication

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	Fish toxicity	NOEC	357 mg/l	8 d	Pimephales promelas	Bull Environ Contam Toxicol 39, 869-876 (	other: ASTM E729-80
91-20-3	naphthalene						
	Acute fish toxicity	LC50	1,6 mg/l	96 h	Oncorhynchus mykiss	Arch. Environm. Contam. Toxicol. 11, 487	OECD Guideline 203
	Acute algae toxicity	ErC50	ca. 0,4 - ca. 0,5 mg/l	72 h	Skeletonema costatum	Mar Environ Res 11, 183-200 (1984)	Aquatic toxicity of water soluble fracti
	Acute crustacea toxicity	EC50	2,16 mg/l	48 h	Daphnia magna	Transactions of the American Fisheries S	OECD Guideline 202
	Fish toxicity	NOEC	0,37 mg/l	40 d	Oncorhynchus kisutch	Trans. Am. Fish. Soc. 110:430-436, 1981	Coho salmon fry were exposed for 40 days
	Crustacea toxicity	NOEC	0,59 mg/l	125 d	Daphnia pulex	Can. J. Fish. Aquat. Sci. 39: 830 - 834	During chronic studies in closed static
95-47-6	xylene (o)						
	Acute fish toxicity	LC50	2,6 mg/l	96 h	Oncorhynchus mykiss	Ecotoxicology and Environmental Safety.	OECD Guideline 203
	Acute algae toxicity	ErC50	4,7 mg/l	72 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety.	OECD Guideline 201
	Acute crustacea toxicity	EC50	3,82 mg/l	48 h	Daphnia magna	Arch. Environ. Contam. Toxicol. 16, 697-	A flow through system was used to expose
	Fish toxicity	NOEC	> 1,3 mg/l	56 d	Oncorhynchus mykiss	Appl. Sci. Branch, Eng. Res. Cent. Denve	Fish were exposed in artificial streams
	Crustacea toxicity	NOEC	1,57 mg/l	21 d	Daphnia magna	Study report (2005)	OECD Guideline 211
	Acute bacteria toxicity	EC50	> 198 mg/l ()	0,5 h	Activated sludge	Research Journal WPCF 60(10) 1850-1856 (	OECD Guideline 209
95-50-1	1,2-dichlorobenzene						
	Acute fish toxicity	LC50	1,61 mg/l	96 h	Oncorhynchus mykiss	EPA 600/3-84-009, US EPA Environmental R	other: EPA-660/3-75-009
	Acute algae toxicity	ErC50	2,2 mg/l	96 h	Pseudokirchneriella subcapitata	REACH Registration Dossier	other: US EPA
	Acute crustacea toxicity	EC50	0,66 mg/l	48 h	Ceriodaphnia dubia	REACH Registration Dossier	other: US EPA
	Crustacea toxicity	NOEC	0,63 mg/l	21 d	Daphnia magna	Wat Res, 23(4): 501-510 (1989)	other: Provisional procedure extended to
98-82-8	isopropylbenzene						
	Acute fish toxicity	LC50	4,7 mg/l	96 h	Cyprinodon variegatus	Ecotoxicol. Environ. Saf. 31, 287-289 (1	EPA OTS 797.1400

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	Acute algae toxicity	ErC50 mg/l	2,01	72 h	Desmodesmus subspicatus	Study report (2010)	EU Method C.3
	Acute crustacea toxicity	EC50 mg/l	2,14	48 h	Daphnia magna	Study report (2010)	OECD Guideline 202
	Fish toxicity	NOEC mg/l	0,38	28 d	D. rerio and P. promelas	European Chemicals Bureau (2001)	Chronic NOEC was calculated by the rappo
	Crustacea toxicity	NOEC mg/l	0,35	21 d	Daphnia magna	Draft study report (incomplete) (1998)	OECD Guideline 211
	Acute bacteria toxicity	EC50 mg/l ()	> 2000	3 h	activated sludge of a predominantly domestic sewage	Study report (2010)	EU Method C.11
100-41-4	ethylbenzene						
	Acute fish toxicity	LC50	4,2 mg/l	96 h	Oncorhynchus mykiss	Ecotoxicol. Environ. Saf. 16:158-169 (19	OECD Guideline 203
	Acute algae toxicity	ErC50	4,6 mg/l	72 h	Pseudokirchneriella subcapitata	Chemosphere 10(10): 1123-1126 (1981)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	1,8 - 2,4	48 h	Daphnia magna	Water Res. 27:903-909 (1993)	other: According to EPA method F
	Acute bacteria toxicity	EC50 mg/l ()	ca. 600	0,5 h	activated sludge, domestic	Study report (1988)	OECD Guideline 209
100-42-5	styrene						
	Acute fish toxicity	LC50	10 mg/l	96 h	Pimephales promelas	Ecotoxicology and environemtal safety 37	OECD Guideline 203
	Acute algae toxicity	ErC50	4,9 mg/l	72 h	Pseudokirchneriella subcapitata	Ecotoxicology and environemtal safety 37	EPA OTS 797.1050
	Acute crustacea toxicity	EC50	4,7 mg/l	48 h	Daphnia magna	Ecotoxicology and environemtal safety 37	OECD Guideline 202
	Crustacea toxicity	NOEC mg/l	1,01	21 d	Daphnia magna	Study report (2005)	OECD Guideline 211
	Acute bacteria toxicity	EC50 mg/l ()	ca. 500	0,5 h	activated sludge of a predominantly domestic sewage	Institute for Health and Consumer Protec	OECD Guideline 209
107-06-2	1,2-dichloroethane						
	Acute fish toxicity	LC50	136 mg/l	96 h	Pimephales promelas	Study report (1979)	OECD Guideline 203
	Acute algae toxicity	ErC50	213 mg/l	72 h	Desmodesmus subspicatus	Publication (1995)	OECD Guideline 201
	Acute crustacea toxicity	EC50	160 mg/l	48 h	Daphnia magna	Study report (1983)	other: Standard prac
	Crustacea toxicity	NOEC	11 mg/l	28 d	Daphnia magna	Publication (1983)	other: ASTM-Proposed
108-38-3	xylene (m)						
	Acute fish toxicity	LC50	2,6 mg/l	96 h	Oncorhynchus mykiss	Ecotoxicology and Environmental Safety.	OECD Guideline 203
	Acute algae toxicity	ErC50	4,9 mg/l	72 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety.	OECD Guideline 201

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	Acute crustacea toxicity	EC50 mg/l	> 3,4	48 h	Ceriodaphnia dubia	Ecotoxicology and Environmental Safety 3	other: US EPA 600/4-91-003
	Fish toxicity	NOEC mg/l	0,714	35 d	Danio rerio	Study report (2017)	OECD Guideline 210
	Crustacea toxicity	NOEC mg/l	1,57	21 d	Daphnia magna	Study report (2005)	OECD Guideline 211
	Acute bacteria toxicity	EC50 mg/l ()	> 198	0,5 h	Activated sludge	Research Journal WPCF 60(10) 1850-1856 (	OECD Guideline 209
108-67-8	mesitylene						
	Acute fish toxicity	LC50 mg/l	5,216	96 h	Fish	USEPA OPPT Risk Assessment Division (200	The Ecosar class program has been develo
	Acute algae toxicity	ErC50 mg/l	3,084	96 h	Green algae	USEPA OPPT Risk Assessment Division (200	The Ecosar class program has been develo
	Acute crustacea toxicity	EC50	6 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
	Fish toxicity	NOEC mg/l	0,277	30 d	fish	USEPA OPPT Risk Assessment Division (200	The Ecosar class program has been develo
	Crustacea toxicity	NOEC	0,4 mg/l	21 d	Daphnia magna	REACH Registration Dossier	other: In accordance with the "Provision
108-88-3	toluene						
	Acute fish toxicity	LC50	5,5 mg/l	96 h	Oncorhynchus kisutch	Transactions A. Fish. Soc. 110, 430-436.	Fry were exposed to toluene in a flow th
	Acute algae toxicity	ErC50 mg/l	> 433	96 h	Pseudokirchneriella subcapitata	REACH Registration Dossier	Method: other
	Acute crustacea toxicity	EC50	11,5 mg/l	48 h	Daphnia magna	REACH Registration Dossier	Method: other
	Fish toxicity	NOEC mg/l	1,39	40 d	Oncorhynchus kisutch	Transactions A. Fish. Soc. 110, 430-436.	Fry were exposed to toluene in a flow th
	Algae toxicity	NOEC mg/l	> 400	7 d	Scenedesmus quadricauda	REACH Registration Dossier	Method: other
	Crustacea toxicity	NOEC mg/l	0,74	7 d	Ceriodaphnia dubia	Ecotoxicol. Environ. Saf. 39, 136-146. (	other: US EPA 600/4-91-003
108-90-7	chlorobenzene						
	Acute fish toxicity	LC50	4,5 mg/l	96 h	Lepomis macrochirus	ASTM Spec. Tech. Publ., 891 (Aquat. Toxic	other: EPA-660//3-75-009
	Acute algae toxicity	ErC50 mg/l	12,5	96 h	Pseudokirchneriella subcapitata	Chemosphere 10, 1123-1126 (1981)	Modified Algal Assay Procedure Bottle te
	Acute crustacea toxicity	EC50 mg/l	0,59	48 h	Daphnia magna	Environ. Toxicol.Chem. 4, 297-305 (1985)	other: Test procedure described in the p

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	Fish toxicity	NOEC	4,8 mg/l	28 d	Danio rerio	Aquatic Toxicology, 16, 321-334 (1990)	OECD Guideline 210
	Crustacea toxicity	NOEC mg/l	0,32	16 d	Daphnia magna	Aquatic toxicology 6, 209-217 (1985)	other: NEN report 6501, 6502
	Acute bacteria toxicity	EC50 ()	140 mg/l	0,5 h	Activated sludge	J. Water Pollut. Control Fed. 60, 1850-1	OECD Guideline 209
67-66-3	trichloromethane						
	Acute fish toxicity	LC50	103 - 171 mg/l	96 h	Pimephales promelas	Bulletin of Environmental Contamination	Method after: Procedures recommended by
	Acute algae toxicity	ErC50 mg/l	13,3	72 h	Chlamydomonas reinhardtii	Environmental Science and Pollution Rese	A modified cell multiplication inhibito
	Acute crustacea toxicity	EC50 mg/l	152,5	48 h	other aquatic mollusc: Crassostrea gigas	Study report (2002)	other: ASTM Method E724-94
	Crustacea toxicity	NOEC	13 mg/l	21 d	Daphnia magna	Water Research 23(4), 501-510 (1989)	other: Recommendation of the
	Acute bacteria toxicity	EC50 ()	840 mg/l	0,5 h	activated sludge of a predominantly domestic sewage	Toxicity Assessment: An International Jo	OECD Guideline 209

Persistence and degradability

There are no data available on the mixture itself.

Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Components	Log Pow
67-56-1	methanol	-0,77
106-43-4	4-chlorotoluene	3,33
106-46-7	"1,4-dichlorobenzene; p-dichlorobenzene"	3,45
96-18-4	1,2,3-trichloropropane	2,5
108-86-1	bromobenzene	3,12
71-43-2	benzene	2,13
75-09-2	dichloromethane	1,25
91-20-3	naphthalene	3,4
95-47-6	xylene (o)	3,15
95-50-1	1,2-dichlorobenzene	ca. 3,433
98-82-8	isopropylbenzene	3,55
100-41-4	ethylbenzene	3,6
100-42-5	styrene	2,96
107-06-2	1,2-dichloroethane	1,45
108-38-3	xylene (m)	3,15
108-67-8	mesitylene	3,42
108-88-3	toluene	2,73
108-90-7	chlorobenzene	ca. 2,855
67-66-3	trichloromethane	1,97

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BCF

CAS No	Components	BCF	Species	Source
67-56-1	methanol	1	Cyprinus carpio	Comparative Biochemi
71-43-2	benzene	< 10	Leuciscus idus melanotus	Chemosphere 14 (10)
75-09-2	dichloromethane	> 0,91 - < 7,9		Washington, DC, US E
91-20-3	naphthalene	36,5 - 168	Cyprinus carpio	http://www.safe.nite
95-47-6	xylene (o)	> 5,5 - < 12,2	Oncorhynchus mykiss	Appl. Sci. Branch, E
95-50-1	1,2-dichlorobenzene	150 - 230	Cyprinus carpio	REACH Registration D
98-82-8	isopropylbenzene	94,69		Unpublished calculat
100-41-4	ethylbenzene	1	Oncorhynchus kisutch	Arch. Environ. Conta
100-42-5	styrene	74	calculated from log Kow	Institute for Health
107-06-2	1,2-dichloroethane	2	Lepomis macrochirus	Review article or ha
108-38-3	xylene (m)	> 5,5 - < 12,2	Oncorhynchus mykiss	Appl. Sci. Branch, E
108-67-8	mesitylene	161	Pimephales promelas	REACH Registration D
108-88-3	toluene	90	Leuciscus idus melanotus	Chemosphere 14 (10).
108-90-7	chlorobenzene	3,9 - 23	Cyprinus carpio	Japan. Chemicals Ins
67-66-3	trichloromethane	690	Selenastrum capricornutum	Environmental Scienc

Mobility in soil

There are no data available on the mixture itself.

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other adverse effects

Avoid release to the environment.

Ozone depletion potential:

Harms public health and the environment by destroying ozone in the upper atmosphere

Further information

Do not allow to enter into surface water or drains.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Dispose of contents/container to hazardous or special waste collection point.

Do not allow to enter into surface water or drains.

Contaminated packaging

This material and its container must be disposed of as hazardous waste.

Handle contaminated packages in the same way as the substance itself.

14. Transport information

U.S. DOT 49 CFR 172.101

UN number or ID number:

UN 1230

Proper shipping name:

Methanol

Transport hazard class(es):

3

Packing group:

II

Hazard label:

3, 6.1

Special Provisions:

IB2, T7, TP2

Limited quantity:

60 L

Marine transport (IMDG)

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UN number or ID number: UN 1230
UN proper shipping name: METHANOL
Transport hazard class(es): 3
Packing group: II
Hazard label: 3+6.1
Special Provisions: 279
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number: UN 1230
UN proper shipping name: METHANOL
Transport hazard class(es): 3
Packing group: II
Hazard label: 3+6.1
Special Provisions: A113
Limited quantity Passenger: 1 L
Passenger LQ: Y341
Excepted quantity: E2
IATA-packing instructions - Passenger: 352
IATA-max. quantity - Passenger: 1 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes
Danger releasing substance: 1,2-dichloroethane, trichloroethylene

Special precautions for user

Warning: Combustible liquid. Toxic.

15. Regulatory information

U.S. Regulations

National regulatory information

SARA Section 302 Extremely hazardous substances:

Chloroform (67-66-3): Reportable quantity = 10 lbs., Threshold planning quantity = 10,000 lbs.

SARA Section 304 CERCLA:

Methanol (67-56-1): Reportable quantity = 5,000 (2270) lbs. (kg)
1,1,1,2-Tetrachloroethane (630-20-6): Reportable quantity = 100 (45.4) lbs. (kg)
1,3-Dichlorobenzene (541-73-1): Reportable quantity = 100 (45.4) lbs. (kg)
1,4-Dichlorobenzene (106-46-7): Reportable quantity = 100 (45.4) lbs. (kg)
1,2,4-Trichlorobenzene (120-82-1): Reportable quantity = 100 (45.4) lbs. (kg)
Vinylidene chloride (75-35-4): Reportable quantity = 100 (45.4) lbs. (kg)
1,1,2-Trichloroethane (79-00-5): Reportable quantity = 100 (45.4) lbs. (kg)
Ethylidene dichloride (75-34-3): Reportable quantity = 1,000 (454) lbs. (kg)
1,2-Dibromo-3-chloropropane (96-12-8): Reportable quantity = 1 (0.454) lbs. (kg)
1,2-Dichloropropane (78-87-5): Reportable quantity = 1,000 (454) lbs. (kg)
1,3-Dichloropropane (142-28-9): Reportable quantity = 1,000 (454) lbs. (kg)
Methylene bromide (74-95-3): Reportable quantity = 1,000 (454) lbs. (kg)
Hexachloro-1,3-butadiene (87-68-3): Reportable quantity = 1 (0.454) lbs. (kg)
1,2-Dichloroethylene (156-60-5): Reportable quantity = 1,000 (454) lbs. (kg)
Benzene (71-43-2): Reportable quantity = 10 (4.54) lbs. (kg)
1,1,1-Trichloroethane (71-55-6): Reportable quantity = 1,000 (454) lbs. (kg)
Dichloromethane (75-09-2): Reportable quantity = 1,000 (454) lbs. (kg)

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Bromoform (75-25-2): Reportable quantity = 100 (45.4) lbs. (kg)
 Dichlorobromomethane (75-27-4): Reportable quantity = 5,000 (2270) lbs. (kg)
 Trichloroethylene (79-01-6): Reportable quantity = 100 (45.4) lbs. (kg)
 Carbon tetrachloride (56-23-5): Reportable quantity = 10 (4.54) lbs. (kg)
 1,1,2,2-Tetrachloroethane (79-34-5): Reportable quantity = 100 (45.4) lbs. (kg)
 Naphthalene (91-20-3): Reportable quantity = 100 (45.4) lbs. (kg)
 o-Xylene (95-47-6): Reportable quantity = 1,000 (454) lbs. (kg)
 1,2-Dichlorobenzene (95-50-1): Reportable quantity = 100 (45.4) lbs. (kg)
 Cumene (98-82-8): Reportable quantity = 5,000 (2270) lbs. (kg)
 Ethylbenzene (100-41-4): Reportable quantity = 1,000 (454) lbs. (kg)
 Styrene (100-42-5): Reportable quantity = 1,000 (454) lbs. (kg)
 p-Xylene (106-42-3): Reportable quantity = 100 (45.4) lbs. (kg)
 1,2-Dibromoethane (106-93-4): Reportable quantity = 1 (0.454) lbs. (kg)
 1,2-Dichloroethane (107-06-2): Reportable quantity = 100 (45.4) lbs. (kg)
 m-Xylene (108-38-3): Reportable quantity = 1,000 (454) lbs. (kg)
 Toluene (108-88-3): Reportable quantity = 1,000 (454) lbs. (kg)
 Chlorobenzene (108-90-7): Reportable quantity = 100 (45.4) lbs. (kg)
 Chlorodibromomethane (124-48-1): Reportable quantity = 100 (45.4) lbs. (kg)
 Tetrachloroethylene (127-18-4): Reportable quantity = 100 (45.4) lbs. (kg)
 Chloroform (67-66-3): Reportable quantity = 10 (4.54) lbs. (kg)

SARA Section 311/312 Hazards:

Methanol (67-56-1): Fire hazard, Immediate (acute) health hazard
 1,1,1,2-Tetrachloroethane (630-20-6): Delayed (chronic) health hazard, Immediate (acute) health hazard
 2-chlorotoluene (95-49-8): Fire hazard, Immediate (acute) health hazard
 4-chlorotoluene (106-43-4): Fire hazard, Immediate (acute) health hazard
 1,3-Dichlorobenzene (541-73-1): Fire hazard, Immediate (acute) health hazard
 1,4-Dichlorobenzene (106-46-7): Delayed (chronic) health hazard, Immediate (acute) health hazard
 1,2,3-Trichlorobenzene (87-61-6): Immediate (acute) health hazard, Delayed (chronic) health hazard
 1,2,4-Trichlorobenzene (120-82-1): Immediate (acute) health hazard, Delayed (chronic) health hazard
 Vinylidene chloride (75-35-4): Fire hazard, Delayed (chronic) health hazard, Immediate (acute) health hazard
 1,1,2-Trichloroethane (79-00-5): Delayed (chronic) health hazard, Immediate (acute) health hazard
 Ethylidene dichloride (75-34-3): Fire hazard, Immediate (acute) health hazard
 1,1-dichloropropene (563-58-6): Fire hazard, Immediate (acute) health hazard
 1,2,3-Trichloropropane (96-18-4): Fire hazard, Delayed (chronic) health hazard, Immediate (acute) health hazard
 1,2-Dibromo-3-chloropropane (96-12-8): Fire hazard, Delayed (chronic) health hazard, Immediate (acute) health hazard
 1,2-Dichloropropane (78-87-5): Fire hazard, Delayed (chronic) health hazard, Immediate (acute) health hazard
 1,3-Dichloropropane (142-28-9): Fire hazard, Immediate (acute) health hazard
 2,2-Dichloropropane (594-20-7): Fire hazard
 bromobenzene (108-86-1): Fire hazard, Immediate (acute) health hazard
 Chlorobromomethane (74-97-5): Immediate (acute) health hazard
 cis-dichloroethylene (156-59-2): Fire hazard, Immediate (acute) health hazard
 (Z)-1,3-dichloropropene (10061-01-5): Fire hazard, Delayed (chronic) health hazard, Immediate (acute) health hazard
 Methylene bromide (74-95-3): Immediate (acute) health hazard
 Hexachloro-1,3-butadiene (87-68-3): Fire hazard, Delayed (chronic) health hazard, Immediate (acute) health hazard
 n-butylbenzene (104-51-8): Fire hazard
 "1-isopropyl-4-methylbenzene; p-cymene" (99-87-6): Fire hazard
 sec-butylbenzene (135-98-8): Fire hazard, Immediate (acute) health hazard
 tert-butylbenzene (98-06-6): Fire hazard, Immediate (acute) health hazard
 1,2-Dichloroethylene (156-60-5): Fire hazard, Immediate (acute) health hazard

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trans-1,3-Dichloropropene (10061-02-6): Fire hazard, Delayed (chronic) health hazard, Immediate (acute) health hazard

Benzene (71-43-2): Fire hazard, Delayed (chronic) health hazard, Immediate (acute) health hazard

1,1,1-Trichloroethane (71-55-6): Immediate (acute) health hazard

Dichloromethane (75-09-2): Delayed (chronic) health hazard, Immediate (acute) health hazard

Bromoform (75-25-2): Fire hazard, Immediate (acute) health hazard

Dichlorobromomethane (75-27-4): Delayed (chronic) health hazard, Immediate (acute) health hazard

Trichloroethylene (79-01-6): Delayed (chronic) health hazard, Immediate (acute) health hazard

Carbon tetrachloride (56-23-5): Delayed (chronic) health hazard, Immediate (acute) health hazard

1,1,2,2-Tetrachloroethane (79-34-5): Immediate (acute) health hazard, Delayed (chronic) health hazard

Naphthalene (91-20-3): Fire hazard, Delayed (chronic) health hazard, Immediate (acute) health hazard

o-Xylene (95-47-6): Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

1,2-Dichlorobenzene (95-50-1): Immediate (acute) health hazard

1,2,4-Trimethylbenzene (95-63-6): Fire hazard, Immediate (acute) health hazard

Cumene (98-82-8): Fire hazard, Delayed (chronic) health hazard, Immediate (acute) health hazard

Ethylbenzene (100-41-4): Fire hazard, Delayed (chronic) health hazard, Immediate (acute) health hazard

Styrene (100-42-5): Fire hazard, Delayed (chronic) health hazard, Immediate (acute) health hazard

propylbenzene (103-65-1): Fire hazard, Immediate (acute) health hazard

p-Xylene (106-42-3): Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

1,2-Dibromoethane (106-93-4): Delayed (chronic) health hazard, Immediate (acute) health hazard

1,2-Dichloroethane (107-06-2): Fire hazard, Delayed (chronic) health hazard, Immediate (acute) health hazard

m-Xylene (108-38-3): Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

mesitylene (108-67-8): Fire hazard, Immediate (acute) health hazard

Toluene (108-88-3): Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

Chlorobenzene (108-90-7): Fire hazard, Immediate (acute) health hazard

Chlorodibromomethane (124-48-1): Immediate (acute) health hazard

Tetrachloroethylene (127-18-4): Delayed (chronic) health hazard, Immediate (acute) health hazard

Chloroform (67-66-3): Delayed (chronic) health hazard, Immediate (acute) health hazard

SARA Section 313 Toxic release inventory:

Methanol (67-56-1): De minimis limit = 1.0 %, Reportable threshold = Standard

1,1,1,2-Tetrachloroethane (630-20-6): De minimis limit = 1.0 %, Reportable threshold = Standard

1,3-Dichlorobenzene (541-73-1): De minimis limit = 1.0 %, Reportable threshold = Standard

1,4-Dichlorobenzene (106-46-7): De minimis limit = 0.1 %, Reportable threshold = Standard

1,2,3-Trichlorobenzene (87-61-6): De minimis limit = 1.0 %, Reportable threshold = Standard

1,2,4-Trichlorobenzene (120-82-1): De minimis limit = 1.0 %, Reportable threshold = Standard

Vinylidene chloride (75-35-4): De minimis limit = 1.0 %, Reportable threshold = Standard

1,1,2-Trichloroethane (79-00-5): De minimis limit = 1.0 %, Reportable threshold = Standard

Ethylidene dichloride (75-34-3): De minimis limit = 1.0 %, Reportable threshold = Standard

1,2,3-Trichloropropane (96-18-4): De minimis limit = 0.1 %, Reportable threshold = Standard

1,2-Dibromo-3-chloropropane (96-12-8): De minimis limit = 0.1 %, Reportable threshold = Standard

1,2-Dichloropropane (78-87-5): De minimis limit = 1.0 %, Reportable threshold = Standard

Methylene bromide (74-95-3): De minimis limit = 1.0 %, Reportable threshold = Standard

Hexachloro-1,3-butadiene (87-68-3): De minimis limit = 1.0 %, Reportable threshold = Standard

trans-1,3-Dichloropropene (10061-02-6): De minimis limit = 0.1 %, Reportable threshold = Standard

Benzene (71-43-2): De minimis limit = 0.1 %, Reportable threshold = Standard

1,1,1-Trichloroethane (71-55-6): De minimis limit = 1.0 %, Reportable threshold = Standard

Dichloromethane (75-09-2): De minimis limit = 0.1 %, Reportable threshold = Standard

Bromoform (75-25-2): De minimis limit = 1.0 %, Reportable threshold = Standard

Dichlorobromomethane (75-27-4): De minimis limit = 0.1 %, Reportable threshold = Standard

Trichloroethylene (79-01-6): De minimis limit = 0.1 %, Reportable threshold = Standard

Carbon tetrachloride (56-23-5): De minimis limit = 0.1 %, Reportable threshold = Standard

1,1,2,2-Tetrachloroethane (79-34-5): De minimis limit = 1.0 %, Reportable threshold = Standard

Naphthalene (91-20-3): De minimis limit = 0.1 %, Reportable threshold = Standard

o-Xylene (95-47-6): De minimis limit = 1.0 %, Reportable threshold = Standard

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1,2-Dichlorobenzene (95-50-1): De minimis limit = 1.0 %, Reportable threshold = Standard
 1,2,4-Trimethylbenzene (95-63-6): De minimis limit = 1.0 %, Reportable threshold = Standard
 Cumene (98-82-8): De minimis limit = 1.0 %, Reportable threshold = Standard
 Ethylbenzene (100-41-4): De minimis limit = 0.1 %, Reportable threshold = Standard
 Styrene (100-42-5): De minimis limit = 0.1 %, Reportable threshold = Standard
 p-Xylene (106-42-3): De minimis limit = 1.0 %, Reportable threshold = Standard
 1,2-Dibromoethane (106-93-4): De minimis limit = 0.1 %, Reportable threshold = Standard
 1,2-Dichloroethane (107-06-2): De minimis limit = 0.1 %, Reportable threshold = Standard
 m-Xylene (108-38-3): De minimis limit = 1.0 %, Reportable threshold = Standard
 Toluene (108-88-3): De minimis limit = 1.0 %, Reportable threshold = Standard
 Chlorobenzene (108-90-7): De minimis limit = 1.0 %, Reportable threshold = Standard
 Tetrachloroethylene (127-18-4): De minimis limit = 0.1 %, Reportable threshold = Standard
 Chloroform (67-66-3): De minimis limit = 0.1 %, Reportable threshold = Standard

Clean Air Act Section 112(r):
 Vinylidene chloride (75-35-4): Threshold quantities = 10,000 lbs.
 Chloroform (67-66-3): Threshold quantities = 20,000 lbs.

Clean Air Act Section 112(b):
 Methanol (67-56-1), 1,4-Dichlorobenzene (106-46-7), 1,2,4-Trichlorobenzene (120-82-1), Vinylidene chloride (75-35-4), 1,1,2-Trichloroethane (79-00-5), Ethylidene dichloride (75-34-3), 1,2-Dibromo-3-chloropropane (96-12-8), 1,2-Dichloropropane (78-87-5), Hexachloro-1,3-butadiene (87-68-3), trans-1,3-Dichloropropene (10061-02-6), Benzene (71-43-2), 1,1,1-Trichloroethane (71-55-6), Dichloromethane (75-09-2), Bromoform (75-25-2), Trichloroethylene (79-01-6), Carbon tetrachloride (56-23-5), 1,1,2,2-Tetrachloroethane (79-34-5), Naphthalene (91-20-3), o-Xylene (95-47-6), Cumene (98-82-8), Ethylbenzene (100-41-4), Styrene (100-42-5), p-Xylene (106-42-3), 1,2-Dibromoethane (106-93-4), 1,2-Dichloroethane (107-06-2), m-Xylene (108-38-3), Toluene (108-88-3), Chlorobenzene (108-90-7), Tetrachloroethylene (127-18-4), Chloroform (67-66-3)

Clean Air Act Section 602:
 Class I: Group VIII: Chlorobromomethane (74-97-5)
 Group V: 1,1,1-Trichloroethane (71-55-6)
 Group IV: Carbon tetrachloride (56-23-5)

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

WARNING: This product can expose you to chemicals including Methanol (developmental); 1,1,1,2-Tetrachloroethane (cancer); p-Dichlorobenzene (cancer); Vinylidene chloride (1,1-Dichloroethylene) (cancer); Vinyl trichloride (1,1,2-Trichloroethane) (cancer); 1,1-Dichloroethane (cancer); 1,2,3-Trichloropropane (cancer); 1,2-Dibromo-3-chloropropane (DBCP) (cancer, reproductive); 1,2-Dichloropropane (cancer, reproductive); Hexachlorobutadiene (cancer, reproductive); Benzene (cancer, developmental, reproductive); 1,1,1-Trichloroethane (cancer, reproductive); Dichloromethane (Methylene chloride) (cancer, reproductive); Bromoform (cancer, reproductive); Bromodichloromethane (cancer, reproductive); Trichloroethylene (cancer, developmental, reproductive); Carbon tetrachloride (cancer, reproductive); 1,1,2,2-Tetrachloroethane (cancer, reproductive); Naphthalene (cancer, reproductive); Cumene (cancer, reproductive); Ethylbenzene (cancer, reproductive); Styrene (cancer, reproductive); Ethylene dibromide (cancer, developmental, reproductive); Ethylene dichloride (1,2-Dichloroethane) (cancer, reproductive); Toluene (developmental, reproductive); Tetrachloroethylene (Perchloroethylene) (cancer, reproductive); Chloroform (cancer, developmental, reproductive), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

16. Other information

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 Revision No: 1,00

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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
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Other data

Provide appropriate information, instructions and training to users.
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.
The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)