



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 13-Jun-2024

Revision Number 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Code(s)	DRE-YA05000007ME
Product Name	VOC-Mix 7 2000 µg/mL in Methanol
Form	Not applicable
Unique Formula Identifier (UFI)	T30V-00FN-F00X-CYK2
Pure substance/mixture	Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use	Laboratory use
Uses advised against	No information available

1.3. Details of the supplier of the safety data sheet

Supplier

LGC Limited
Queens Road
Teddington
Middlesex TW11 0LY
UNITED KINGDOM
:+44 (0) 20 8943 7000
Fax :+44 (0) 20 8943 2767
eMail : gb@lgcstandards.com

Web : www.lgcstandards.com

For further information, please contact

E-mail address	sds-request@lgcgroup.com
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1.4. Emergency telephone number

Emergency Telephone	For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-5970
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Emergency Telephone - §45 - (EC)1272/2008	
Europe	112
Austria	No information available
Bulgaria	
Croatia	
Cyprus	
Czech Republic	
Denmark	
France	
Hungary	
Ireland	
Italy	
Lithuania	
Luxembourg	
Netherlands	
Norway	
Portugal	
Romania	
Slovakia	
Slovenia	
Spain	
Sweden	
Switzerland	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to

Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Oral	Category 3 - (H301)
Acute toxicity - Dermal	Category 3 - (H311)
Acute toxicity - Inhalation (Vapours)	Category 3 - (H331)
Germ cell mutagenicity	Category 1B - (H340)
Carcinogenicity	Category 1A - (H350)
Reproductive toxicity	Category 1B - (H360)
Specific target organ toxicity — single exposure	Category 1 Category 3 - (H370)
Category 3 Narcotic effects	
Specific target organ toxicity — repeated exposure	Category 2 - (H373)
Ozone	Category 1 - (H420)
Flammable liquids	Category 2 - (H225)



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2.2. Label elements

Contains Methanol; Benzene; Bromodichloromethane; 1,1-Dichloroethylene



Signal word
Danger

Hazard statements

H301 - Toxic if swallowed
H311 - Toxic in contact with skin
H331 - Toxic if inhaled
H335 + H336 - May cause respiratory irritation. May cause drowsiness or dizziness
H340 - May cause genetic defects
H350 - May cause cancer
H360 - May damage fertility or the unborn child
H370 - Causes damage to organs
H373 - May cause damage to organs through prolonged or repeated exposure
H420 - Harms public health and the environment by destroying ozone in the upper atmosphere
H225 - Highly flammable liquid and vapour

Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
P502 - Refer to manufacturer or supplier for information on recovery or recycling
P403 + P235 - Store in a well-ventilated place. Keep cool

2.3. Other hazards

No information available.

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

Chemical name	EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very	EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of
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	High Concern (SVHC) for Authorisation	Substances
Methanol	-	-
Trichloroethylene	-	-
Tetrachloromethane	-	-
Benzene	-	-
1,4-Dichlorobenzene	-	-
1,2-dichloroethane	-	-
1,1-Dichloroethylene	-	-

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature Mixture of organic compounds.

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Methanol 67-56-1	80 - 100	-	200-659-6 (603-001-00 -X)	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370) Flam. Liq. 2 (H225)	STOT SE 1 :: C>=10% STOT SE 2 :: 3%<=C<10%		
Trichloromethane 67-66-3	0.1 - 1	-	200-663-8	Acute Tox. 4 (H302) Acute Tox. 3 (H331) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Carc. 2 (H351) Repr. 2 (H361d) STOT RE 1 (H372)			
Trichloroethylene 79-01-6	0.1 - 1	-	201-167-4	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Muta. 2 (H341) Carc. 1B (H350) STOT SE 3 (H336) Aquatic Chronic 3 (H412)			
Tribromomethane 75-25-2	0.1 - 1	-	200-854-6	Flamm. liq. 3 (H226) Acute Tox. 4 (H302) Acute Tox. 3 (H331)			



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				Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)			
Tetrachloromethane 56-23-5	0.1 - 1	-	200-262-8	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Carc. 2 (H351) STOT RE 1 (H372) Aquatic Chronic 3 (H412) Ozone 1 (H420)	STOT RE 1 :: C>=1% STOT RE 2 :: 0.2%<=C<1%		
Bromodichloromethane 75-27-4	0.1 - 1	-	200-856-7	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Muta. 1B (H340)par Carc. 2 (H351) Repr.2 (H360) STOT SE 3 (H335) STOT RE 2 (H373)			
Benzene 71-43-2	0.1 - 1	-	200-753-7 (601-020-00-8)	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Muta. 1B (H340) Carc. 1A (H350) STOT RE 1 (H372) Asp. Tox. 1 (H304) Flam. Liq. 2 (H225)			
1,4-Dichlorobenzene 106-46-7	0.1 - 1	-	203-400-5 (602-035-00-2)	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Carc. 2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)			
1,2-dichloroethane 107-06-2	0.1 - 1	-	203-458-1 (602-012-00-7)	Flam. Liq. 2 (H225) Acute Tox. 3 (H331) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Carc. 1B (H350) STOT SE 3 (H335) Asp. Tox. 1 (H304)			
1,1-Dichloroethylene	0.1 - 1	-	200-864-0	Flam. Liq. 1 (H224)			



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75-35-4				Acute Tox. 2 (H330) Acute Tox. 3 (H301) Eye Irrit. 2 (H319) Carc. 1B (H350) STOT RE 1 (H372) Aquatic Chronic 2 (H411)			
1,1,1-Trichloroethane 71-55-6	0.1 - 1	-	200-756-3	Acute Tox. 4 (H332) Ozone 1 (H420)			

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Methanol 67-56-1	6200	15840	No data available	41.6976	No data available
Trichloromethane 67-66-3	450	20000	47.702	No data available	No data available
Trichloroethylene 79-01-6	4920	29000	26	No data available	No data available
Tribromomethane 75-25-2	933	No data available	No data available	No data available	No data available
Tetrachloromethane 56-23-5	2350	5070	No data available	50.3297	No data available
Bromodichloromethane 75-27-4	430	No data available	No data available	No data available	No data available
Benzene 71-43-2	810	8200	44.66	No data available	No data available
1,4-Dichlorobenzene 106-46-7	500	6000	No data available	No data available	No data available
1,2-dichloroethane 107-06-2	680	4890	6	No data available	No data available
1,1-Dichloroethylene 75-35-4	1500	No data available	1.66	No data available	No data available
1,1,1-Trichloroethane 71-55-6	9600	15800	No data available	98.2086	No data available



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This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No.	SVHC candidates
1,2-dichloroethane	107-06-2	X
Trichloroethylene	79-01-6	X

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. IF exposed or concerned: Get medical advice/attention.
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention. If breathing has stopped, give artificial respiration. Get medical attention immediately. Immediate medical attention is required. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen.
Eye contact	Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
Skin contact	Get immediate medical attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Remove all sources of ignition. Use personal protective equipment as required. See section 8 for more information. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not breathe vapour or mist.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	Coughing and/ or wheezing. Difficulty in breathing. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO₂). Water spray. Alcohol resistant foam.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. See section 8 for more information. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Do not breathe vapour or mist.

Other information Refer to protective measures listed in Sections 7 and 8. Ventilate the area.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Refer to protective measures listed in Sections 7 and 8. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up



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Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
6.4. Reference to other sections	
Reference to other sections	See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash it before reuse. Use personal protection equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Do not breathe vapour or mist. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation.
General hygiene considerations	Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Do not breathe vapour or mist. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of the reach of children. Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is
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given on the CoA.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Methanol 67-56-1	TWA: 200 ppm TWA: 260 mg/m ³ *	TWA: 200 ppm TWA: 260 mg/m ³ STEL 800 ppm STEL 1040 mg/m ³ Sk*	TWA: 200 ppm TWA: 266 mg/m ³ STEL: 250 ppm STEL: 333 mg/m ³ Sk*	TWA: 200 ppm TWA: 260.0 mg/m ³ Sk*	TWA: 200 ppm TWA: 260 mg/m ³ Sk*
Trichloromethane 67-66-3	TWA: 2 ppm TWA: 10 mg/m ³ *	TWA: 2 ppm TWA: 10 mg/m ³ H*	TWA: 2 ppm TWA: 10 mg/m ³ *	TWA: 2 ppm TWA: 10.0 mg/m ³ K*	TWA: 2 ppm TWA: 10 mg/m ³ *
Trichloroethylene 79-01-6	TWA: 54.7 mg/m ³ TWA: 10 ppm * STEL: 164.1 mg/m ³ STEL: 30 ppm	-	TWA: 10 ppm TWA: 55 mg/m ³ STEL: 25 ppm STEL: 137 mg/m ³	STEL: 1000.0 mg/m ³ TWA: 135.0 mg/m ³	TWA: 10 ppm TWA: 55 mg/m ³ STEL: 25 ppm STEL: 137 mg/m ³ *
Tribromomethane 75-25-2	-	TWA: 0.5 ppm TWA: 5 mg/m ³	TWA: 0.5 ppm TWA: 5.3 mg/m ³ *	TWA: 5.0 mg/m ³	-
Tetrachloromethane 56-23-5	* STEL: 32 mg/m ³ STEL: 5 ppm TWA: 6.4 mg/m ³ TWA: 1 ppm	TWA: 1 ppm TWA: 6.4 mg/m ³ STEL 5 ppm STEL 32 mg/m ³ H*	TWA: 1 ppm TWA: 6.4 mg/m ³ STEL: 5 ppm STEL: 32 mg/m ³ *	STEL: 32 mg/m ³ STEL: 5 ppm TWA: 6.4 mg/m ³ TWA: 1 ppm K*	TWA: 1 ppm TWA: 6.4 mg/m ³ STEL: 5 ppm STEL: 32 mg/m ³ *
Benzene 71-43-2	TWA: 0.2 ppm TWA: 0.66 mg/m ³ *	Sk*	TWA: 1 ppm TWA: 3.25 mg/m ³ Sk*	TWA: 3.25 mg/m ³ TWA: 1 ppm Sk*	TWA: 1 ppm TWA: 3.25 mg/m ³ Sk*
1,4-Dichlorobenzene 106-46-7	* STEL: 60 mg/m ³ STEL: 10 ppm TWA: 12 mg/m ³ TWA: 2 ppm	TWA: 2 ppm TWA: 12 mg/m ³ STEL 4 ppm STEL 24 mg/m ³ Sk*	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 60 mg/m ³ Sk*	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 60 mg/m ³ Sk*	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 60 mg/m ³ Sk*



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1,2-dichloroethane 107-06-2	TWA: 8.2 mg/m ³ TWA: 2 ppm *	Sk*	TWA: 2 ppm TWA: 8.2 mg/m ³ Sk*	TWA: 8.2 mg/m ³ TWA: 2 ppm Sk*	TWA: 2 ppm TWA: 8.2 mg/m ³ Sk*
1,1-Dichloroethylene 75-35-4	STEL: 20 mg/m ³ STEL: 5 ppm TWA: 8 mg/m ³ TWA: 2 ppm	TWA: 2 ppm TWA: 8 mg/m ³ STEL 5 ppm STEL 20 mg/m ³	TWA: 2 ppm TWA: 8 mg/m ³ STEL: 5 ppm STEL: 20 mg/m ³	STEL: 20 mg/m ³ STEL: 5 ppm TWA: 8.0 mg/m ³ TWA: 2 ppm	TWA: 2 ppm TWA: 8 mg/m ³ TWA: 10 ppm TWA: 40 mg/m ³ STEL: 5 ppm STEL: 20 mg/m ³
1,1,1-Trichloroethane 71-55-6	TWA: 100 ppm TWA: 555 mg/m ³ STEL: 200 ppm STEL: 1110 mg/m ³	TWA: 100 ppm TWA: 555 mg/m ³ STEL 200 ppm STEL 1110 mg/m ³ H*	TWA: 100 ppm TWA: 555 mg/m ³ STEL: 200 ppm STEL: 1110 mg/m ³	STEL: 200 ppm STEL: 1110 mg/m ³ TWA: 100 ppm TWA: 555 mg/m ³	TWA: 100 ppm TWA: 555 mg/m ³ STEL: 200 ppm STEL: 1110 mg/m ³
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Methanol 67-56-1	TWA: 200 ppm TWA: 260 mg/m ³ Sk*	TWA: 250 mg/m ³ Sk* Ceiling: 1000 mg/m ³	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 400 ppm STEL: 520 mg/m ³ Sk*	TWA: 200 ppm TWA: 250 mg/m ³ STEL: 250 ppm STEL: 350 mg/m ³ Sk*	TWA: 200 ppm TWA: 270 mg/m ³ STEL: 250 ppm STEL: 330 mg/m ³ Sk*
Trichloromethane 67-66-3	* TWA: 2 ppm TWA: 10 mg/m ³	TWA: 10 mg/m ³ Ceiling: 20 mg/m ³ *	TWA: 2 ppm TWA: 10 mg/m ³ H*	TWA: 2 ppm TWA: 10 mg/m ³ A*	TWA: 2 ppm TWA: 10 mg/m ³ STEL: 4 ppm STEL: 20 mg/m ³ iho*
Trichloroethylene 79-01-6	-	TWA: 250 mg/m ³ Ceiling: 750 mg/m ³ *	TWA: 10 ppm TWA: 55 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 25 ppm STEL: 140 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ TWA: 54.7 mg/m ³ STEL: 164.1 mg/m ³ STEL: 30 ppm iho*
Tribromomethane 75-25-2	-	-	TWA: 0.5 ppm TWA: 5 mg/m ³ H*	TWA: 0.5 ppm TWA: 5 mg/m ³	TWA: 0.5 ppm TWA: 5.2 mg/m ³ STEL: 1.5 ppm STEL: 16 mg/m ³ iho*
Tetrachloromethane 56-23-5	* STEL: 32 mg/m ³ STEL: 5 ppm TWA: 6.4 mg/m ³ TWA: 1 ppm	TWA: 10 mg/m ³ Ceiling: 20 mg/m ³ *	TWA: 1 ppm TWA: 6.3 mg/m ³ H*	TWA: 1 ppm TWA: 6.4 mg/m ³ STEL: 3 ppm STEL: 19 mg/m ³ A*	TWA: 1 ppm TWA: 6.3 mg/m ³ STEL: 5 ppm STEL: 31 mg/m ³ iho*
Benzene 71-43-2	TWA: 1 ppm TWA: 3.25 mg/m ³ Sk*	TWA: 3 mg/m ³ Sk* Ceiling: 10 mg/m ³	TWA: 0.5 ppm TWA: 1.6 mg/m ³ STEL: 1 ppm STEL: 3.2 mg/m ³ Sk*	TWA: 0.5 ppm TWA: 1.5 mg/m ³ STEL: 3 ppm STEL: 9 mg/m ³ Sk*	TWA: 1 ppm : TWA: 3.25 mg/m ³ Sk*



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1,4-Dichlorobenzene 106-46-7	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 60 ppm STEL: 10 mg/m ³ Sk*	TWA: 100 mg/m ³ Sk* Ceiling: 200 mg/m ³	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 60 mg/m ³ STEL: 10 ppm Sk*	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 60 mg/m ³ Sk*	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 60 mg/m ³ Sk*
1,2-dichloroethane 107-06-2	TWA: 2 ppm TWA: 8.2 mg/m ³ Sk*	TWA: 10 mg/m ³ Sk* Ceiling: 16 mg/m ³	TWA: 1 ppm TWA: 4 mg/m ³ STEL: 2 ppm STEL: 8 mg/m ³ Sk*	TWA: 1 ppm TWA: 4 mg/m ³ STEL: 5 ppm STEL: 20 mg/m ³ Sk*	TWA: 1 ppm TWA: 4 mg/m ³ TWA: 8.2 mg/m ³ TWA: 2 ppm STEL: 5 ppm STEL: 20 mg/m ³ Sk*
1,1-Dichloroethylene 75-35-4	STEL: 20 mg/m ³ STEL: 5 ppm TWA: 8 mg/m ³ TWA: 2 ppm	TWA: 8 mg/m ³ Ceiling: 16 mg/m ³	TWA: 2 ppm TWA: 8 mg/m ³	TWA: 2 ppm TWA: 8 mg/m ³ STEL: 5 ppm STEL: 20 mg/m ³	TWA: 2 ppm TWA: 8 mg/m ³ STEL: 5 ppm STEL: 20 mg/m ³
1,1,1-Trichloroethane 71-55-6	STEL: 200 ppm STEL: 1110 mg/m ³ TWA: 100 ppm TWA: 555 mg/m ³	TWA: 500 mg/m ³ Ceiling: 1000 mg/m ³	TWA: 50 ppm TWA: 275 mg/m ³	TWA: 100 ppm TWA: 555 mg/m ³ STEL: 200 ppm STEL: 1100 mg/m ³	TWA: 100 ppm TWA: 550 mg/m ³ STEL: 200 ppm STEL: 1100 mg/m ³
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Methanol 67-56-1	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 1000 ppm STEL: 1300 mg/m ³ Sk*	TWA: 100 ppm TWA: 130 mg/m ³ Sk*	TWA: 100 ppm TWA: 130 mg/m ³ Peak: 200 ppm Peak: 260 mg/m ³ Sk*	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³ Sk*	TWA: 260 mg/m ³ TWA: 200 ppm Sk*
Trichloromethane 67-66-3	TWA: 2 ppm TWA: 10 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ *	TWA: 0.5 ppm TWA: 2.5 mg/m ³ H*	TWA: 0.5 ppm TWA: 2.5 mg/m ³ Peak: 1 ppm Peak: 5 mg/m ³ *	TWA: 10 ppm TWA: 50 mg/m ³	TWA: 10 mg/m ³ *
Trichloroethylene 79-01-6	TWA: 75 ppm TWA: 405 mg/m ³ STEL: 200 ppm STEL: 1080 mg/m ³	Skin notation	*	TWA: 10 ppm TWA: 54.7 mg/m ³ STEL: 30 ppm STEL: 164.1 mg/m ³ skin - potential for cutaneous absorption	TWA: 54.7 mg/m ³ STEL: 540 mg/m ³ *
Tribromomethane 75-25-2	TWA: 0.5 ppm TWA: 5 mg/m ³ *	-	-	TWA: 0.5 ppm TWA: 5 mg/m ³ skin - potential for cutaneous absorption	-
Tetrachloromethane 56-23-5	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 10 ppm	TWA: 0.5 ppm TWA: 3.2 mg/m ³ H*	TWA: 0.5 ppm TWA: 3.2 mg/m ³ Peak: 1 ppm	TWA: 1 ppm TWA: 6.4 mg/m ³ STEL: 5 ppm	TWA: 6.4 mg/m ³ STEL: 32 mg/m ³ *



SAFETY DATA SHEET

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Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 13-Jun-2024

Revision Number 1

DRE-YA05000007ME - VOC-Mix 7 2000 µg/mL in Methanol

	STEL: 60 mg/m ³		Peak: 6.4 mg/m ³ *	STEL: 32 mg/m ³ skin - potential for cutaneous absorption	
Bromodichloromethane 75-27-4	-	-	*	-	-
Benzene 71-43-2	TWA: 1 ppm TWA: 3.25 mg/m ³ STEL: 1500 mg/m ³ Sk*	Sk*	Sk*	TWA: 3.25 mg/m ³ TWA: 1.0 ppm Sk*	TWA: 1 ppm TWA: 3.25 mg/m ³ Sk*
1,4-Dichlorobenzene 106-46-7	TWA: 0.75 ppm TWA: 4.5 mg/m ³ STEL: 10 ppm STEL: 60 mg/m ³ Sk*	TWA: 2 ppm TWA: 12 mg/m ³ Sk*	TWA: 2 ppm TWA: 12 mg/m ³ Peak: 4 ppm Peak: 24 mg/m ³ Sk*	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 60 mg/m ³ Sk*	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 60 mg/m ³ Sk*
1,2-dichloroethane 107-06-2	TWA: 2 ppm TWA: 8.2 mg/m ³ Sk*	Sk*	Sk*	TWA: 2 ppm TWA: 8.2 mg/m ³ Sk*	TWA: 2 ppm TWA: 8.2 mg/m ³ Sk*
1,1-Dichloroethylene 75-35-4	TWA: 5 ppm TWA: 20 mg/m ³	TWA: 2 ppm TWA: 8 mg/m ³	TWA: 2 ppm TWA: 8.0 mg/m ³ Peak: 4 ppm Peak: 16.0 mg/m ³	TWA: 8 mg/m ³ TWA: 2 ppm STEL: 5 ppm STEL: 20 mg/m ³	TWA: 8 mg/m ³ STEL: 20 mg/m ³
1,1,1-Trichloroethane 71-55-6	TWA: 100 ppm TWA: 555 mg/m ³ STEL: 200 ppm STEL: 1110 mg/m ³	TWA: 100 ppm TWA: 550 mg/m ³ H*	TWA: 100 ppm TWA: 550 mg/m ³ Peak: 100 ppm Peak: 550 mg/m ³ *	TWA: 350 ppm TWA: 1900 mg/m ³ STEL: 500 ppm STEL: 2700 mg/m ³	TWA: 555 mg/m ³ STEL: 1110 mg/m ³ *
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Methanol 67-56-1	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 600 ppm STEL: 780 mg/m ³ Sk*	TWA: 200 ppm TWA: 260 mg/m ³ Sk*	TWA: 200 ppm TWA: 262 mg/m ³ STEL: 250 ppm STEL: 328 mg/m ³ Sk*	TWA: 200 ppm TWA: 260 mg/m ³ Sk*	TWA: 200 ppm TWA: 260 mg/m ³ Sk*
Trichloromethane 67-66-3	TWA: 2 ppm TWA: 9.8 mg/m ³ STEL: 6 ppm STEL: 29.4 mg/m ³ Sk*	TWA: 2 ppm TWA: 10 mg/m ³ pelle*	TWA: 10 ppm TWA: 49 mg/m ³	TWA: 2 ppm TWA: 10 mg/m ³ *	* TWA: 10 mg/m ³ TWA: 2 ppm
Trichloroethylene 79-01-6	TWA: 10 ppm TWA: 54.7 mg/m ³ STEL: 30 ppm STEL: 164.1 mg/m ³ Sk*	-	TWA: 10 ppm TWA: 54 mg/m ³ STEL: 25 ppm STEL: 134 mg/m ³	TWA: 10 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 25 ppm STEL: 140 mg/m ³
Tribromomethane 75-25-2	TWA: 0.5 ppm TWA: 5 mg/m ³	-	TWA: 0.5 ppm TWA: 5.2 mg/m ³	TWA: 2 ppm TWA: 20 mg/m ³	* TWA: 5 mg/m ³



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	STEL: 1.5 ppm STEL: 15 mg/m ³ Sk*				
Tetrachloromethane 56-23-5	TWA: 1 ppm TWA: 6.4 mg/m ³ STEL: 5 ppm STEL: 32 mg/m ³ Sk*	TWA: 6.4 mg/m ³ TWA: 1 ppm pelle*	TWA: 5 ppm TWA: 31 mg/m ³ STEL: 10 ppm STEL: 63 mg/m ³ *	TWA: 6.4 mg/m ³ TWA: 1 ppm STEL: 32 mg/m ³ STEL: 5 ppm *	* TWA: 6.4 mg/m ³ TWA: 1 ppm STEL: 19 mg/m ³ STEL: 3 ppm
Bromodichloromethane 75-27-4	-	-	-	TWA: 2 ppm TWA: 20 mg/m ³	-
Benzene 71-43-2	TWA: 1 ppm TWA: 3.25 mg/m ³ STEL: 3 ppm STEL: 9.75 mg/m ³ Sk*	TWA: 3.25 mg/m ³ TWA: 1 ppm Sk*	TWA: 0.5 ppm TWA: 1.6 mg/m ³ STEL: 2.5 ppm STEL: 8 mg/m ³ Sk*	TWA: 1 ppm TWA: 3.25 mg/m ³ Sk*	TWA: 1 ppm TWA: 3.25 mg/m ³ STEL: 6 ppm STEL: 19 mg/m ³ Sk*
1,4-Dichlorobenzene 106-46-7	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 60 mg/m ³ Sk*	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 60 mg/m ³ Sk*	TWA: 10 ppm TWA: 60 mg/m ³	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 60 mg/m ³ Sk*	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 60 mg/m ³ STEL: 10 ppm Sk*
1,2-dichloroethane 107-06-2	TWA: 2 ppm TWA: 8.2 mg/m ³ STEL: 6 ppm STEL: 24.6 mg/m ³	TWA: 8.2 mg/m ³ TWA: 2 ppm Sk*	TWA: 10 ppm TWA: 40.5 mg/m ³	TWA: 10 mg/m ³ Sk*	TWA: 1 ppm TWA: 4 mg/m ³ STEL: 5 ppm STEL: 20 mg/m ³ Sk*
1,1-Dichloroethylene 75-35-4	TWA: 2 ppm TWA: 8 mg/m ³ STEL: 5 ppm STEL: 20 mg/m ³	TWA: 8 mg/m ³ TWA: 2 ppm STEL: 20 mg/m ³ STEL: 5 ppm	TWA: 5 ppm TWA: 20 mg/m ³	TWA: 8 mg/m ³ TWA: 2 ppm STEL: 20 mg/m ³ STEL: 5 ppm	TWA: 8 mg/m ³ TWA: 2 ppm STEL: 20 mg/m ³ STEL: 5 ppm
1,1,1-Trichloroethane 71-55-6	TWA: 100 ppm TWA: 555 mg/m ³ STEL: 200 ppm STEL: 1110 mg/m ³	TWA: 100 ppm TWA: 555 mg/m ³ STEL: 200 ppm STEL: 1110 mg/m ³	TWA: 350 ppm TWA: 1910 mg/m ³ STEL: 450 ppm STEL: 2456 mg/m ³	TWA: 100 ppm TWA: 555 mg/m ³ STEL: 200 ppm STEL: 1110 mg/m ³	TWA: 50 ppm TWA: 300 mg/m ³ STEL: 90 ppm STEL: 500 mg/m ³
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Methanol 67-56-1	TWA: 200 ppm TWA: 260 mg/m ³ Sk*	TWA: 200 ppm TWA: 260 mg/m ³ Sk*	TWA: 100 ppm TWA: 133 mg/m ³ Sk*	TWA: 100 ppm TWA: 130 mg/m ³ STEL: 150 ppm STEL: 162.5 mg/m ³ Sk*	TWA: 100 mg/m ³ STEL: 300 mg/m ³ Sk* Prohibited - substances or mixtures containing Methanol in weight concentration >3%;except fuels used in the model building,



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					powerboating, fuel cells and biofuels
Trichloromethane 67-66-3	* TWA: 2 ppm TWA: 10 mg/m ³	* TWA: 2 ppm TWA: 10 mg/m ³	TWA: 5 mg/m ³ STEL: 25 mg/m ³	TWA: 2 ppm TWA: 10 mg/m ³ STEL: 4 ppm STEL: 15 mg/m ³ H*	TWA: 8 mg/m ³ *
Trichloroethylene 79-01-6	-	-	-	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm STEL: 75 mg/m ³	STEL: 100 mg/m ³ TWA: 50 mg/m ³ *
Tribromomethane 75-25-2	-	-	-	TWA: 0.5 ppm TWA: 5 mg/m ³ STEL: 1.5 ppm STEL: 10 mg/m ³ H*	TWA: 5 mg/m ³ *
Tetrachloromethane 56-23-5	* STEL: 5 ppm STEL: 32 mg/m ³	* STEL: 5 ppm STEL: 32 mg/m ³ TWA: 1 ppm TWA: 6.4 mg/m ³	TWA: 6.4 mg/m ³ STEL: 32 mg/m ³ H*	TWA: 1 ppm TWA: 6.3 mg/m ³ STEL: 3 ppm STEL: 19 mg/m ³ H*	STEL: 32 mg/m ³ TWA: 6.4 mg/m ³ *
Benzene 71-43-2	-	-	TWA: 0.2 ppm TWA: 0.7 mg/m ³ Sk*	TWA: 0.2 ppm TWA: 0.66 mg/m ³ STEL: 0.6 ppm STEL: 1.98 mg/m ³ Sk*	TWA: 1.6 mg/m ³ Sk*
1,4-Dichlorobenzene 106-46-7	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 60 mg/m ³ Sk*	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 60 mg/m ³ Sk*	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 60 mg/m ³ Sk*	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 60 mg/m ³ Sk*	TWA: 12 mg/m ³ STEL: 36 mg/m ³ Sk*
1,2-dichloroethane 107-06-2	-	-	TWA: 1.7 ppm TWA: 7 mg/m ³ Sk*	TWA: 1 mg/m ³ TWA: 0.25 ppm STEL: 3 mg/m ³ STEL: 0.75 ppm Sk*	TWA: 8.2 mg/m ³ Sk*
1,1-Dichloroethylene 75-35-4	STEL: 20 mg/m ³ STEL: 5 ppm TWA: 8 mg/m ³ TWA: 2 ppm	STEL: 5 ppm STEL: 20 mg/m ³ TWA: 2 ppm TWA: 8 mg/m ³	TWA: 8 mg/m ³ STEL: 20 mg/m ³	TWA: 1 ppm TWA: 4 mg/m ³ STEL: 3 ppm STEL: 8 mg/m ³ H*	STEL: 20 mg/m ³ TWA: 8 mg/m ³
1,1,1-Trichloroethane 71-55-6	STEL: 200 ppm STEL: 1110 mg/m ³ TWA: 100 ppm TWA: 555 mg/m ³	STEL: 200 ppm STEL: 1110 mg/m ³ TWA: 100 ppm TWA: 555 mg/m ³	TWA: 555 mg/m ³ STEL: 1110 mg/m ³	TWA: 50 ppm TWA: 270 mg/m ³ STEL: 75 ppm STEL: 337.5 mg/m ³	STEL: 600 mg/m ³ TWA: 300 mg/m ³ *
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain



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Methanol 67-56-1	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm Sk*	TWA: 200 ppm TWA: 260 mg/m ³ Sk*	TWA: 200 ppm TWA: 260 mg/m ³ Sk*	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 800 ppm STEL: 1040 mg/m ³ Sk*	TWA: 200 ppm TWA: 266 mg/m ³ Sk*
Trichloromethane 67-66-3	TWA: 2 ppm TWA: 10 mg/m ³ P*	TWA: 2 ppm TWA: 10 mg/m ³ *	TWA: 2 ppm TWA: 10 mg/m ³ *	TWA: 2 ppm TWA: 10 mg/m ³ *	TWA: 2 ppm TWA: 10 mg/m ³ via dérmica*
Trichloroethylene 79-01-6	TWA: 10 ppm TWA: 54.7 mg/m ³ STEL: 30 ppm STEL: 164.1 mg/m ³ P*	-	TWA: 50 ppm TWA: 275 mg/m ³ STEL: 250 ppm STEL: 1375 mg/m ³	*	TWA: 10 ppm TWA: 54.7 mg/m ³ STEL: 30 ppm STEL: 164.1 mg/m ³
Tribromomethane 75-25-2	TWA: 0.5 ppm P*	-	-	-	TWA: 0.5 ppm TWA: 5.3 mg/m ³ via dérmica*
Tetrachloromethane 56-23-5	TWA: 1 ppm TWA: 6.4 mg/m ³ STEL: 5 ppm STEL: 32 mg/m ³ P*	TWA: 1 ppm TWA: 6.4 mg/m ³ STEL: 5 ppm STEL: 32 mg/m ³ *	TWA: 1 ppm TWA: 6.4 mg/m ³ * Ceiling: 6.8 mg/m ³	TWA: 1 ppm TWA: 6.4 mg/m ³ STEL: STEL ppm STEL: STEL mg/m ³ *	TWA: 1 ppm TWA: 6.4 mg/m ³ STEL: 32 mg/m ³ STEL: 64 mg/m ³ via dérmica*
Benzene 71-43-2	TWA: 1 ppm TWA: 3.25 mg/m ³ STEL: 2.5 ppm Sk*	TWA: 1 ppm TWA: 3.25 mg/m ³ Sk*	TWA: 1.0 ppm TWA: 3.25 mg/m ³ STEL: 5.0 ppm STEL: 16.25 mg/m ³ Sk*	TWA: 1 ppm TWA: 3.25 mg/m ³ Sk*	TWA: 1 ppm TWA: 3.25 mg/m ³ Sk*
1,4-Dichlorobenzene 106-46-7	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 60 mg/m ³ STEL: 10 ppm Sk*	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 60 mg/m ³ Sk*	TWA: 2 ppm TWA: 12 mg/m ³ Sk* Ceiling: 306 mg/m ³	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 60 mg/m ³ Sk*	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 60 mg/m ³ Sk*
1,2-dichloroethane 107-06-2	TWA: 2 ppm TWA: 8.2 mg/m ³ Sk*	TWA: 2 ppm TWA: 8.2 mg/m ³ Sk*	TWA: 5 ppm TWA: 20 mg/m ³ STEL: 25 ppm STEL: 100 mg/m ³ Sk*	TWA: 8.2 mg/m ³ TWA: 2 ppm Sk*	TWA: 2 ppm TWA: 8.2 mg/m ³ Sk*
1,1-Dichloroethylene 75-35-4	TWA: 8 mg/m ³ TWA: 2 ppm STEL: 20 mg/m ³ STEL: 5 ppm	TWA: 2 ppm TWA: 8 mg/m ³ STEL: 5 ppm STEL: 20 mg/m ³	TWA: 2 ppm TWA: 8 mg/m ³ Ceiling: 40 mg/m ³	TWA: 2 ppm TWA: 8 mg/m ³ STEL: STEL ppm STEL: STEL mg/m ³	TWA: 2 ppm TWA: 8 mg/m ³ STEL: 5 ppm STEL: 20 mg/m ³
1,1,1-Trichloroethane 71-55-6	TWA: 100 ppm TWA: 555 mg/m ³ STEL: 200 ppm STEL: 1110 mg/m ³	TWA: 100 ppm TWA: 555 mg/m ³ STEL: 200 ppm STEL: 1110 mg/m ³	TWA: 100 ppm TWA: 555 mg/m ³ Ceiling: 1100 mg/m ³	TWA: 100 ppm TWA: 555 mg/m ³ STEL: STEL ppm STEL: STEL mg/m ³ *	TWA: 100 ppm TWA: 555 mg/m ³ STEL: 200 ppm STEL: 1110 mg/m ³
Chemical name	Sweden		Switzerland		United Kingdom



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Methanol 67-56-1	NGV: 200 ppm NGV: 250 mg/m ³ Vägledande KGV: 250 ppm Vägledande KGV: 350 mg/m ³ Sk*	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 400 ppm STEL: 520 mg/m ³ Sk*	TWA: 200 ppm TWA: 266 mg/m ³ STEL: 250 ppm STEL: 333 mg/m ³ Sk*
Trichloromethane 67-66-3	NGV: 2 ppm NGV: 10 mg/m ³ Vägledande KGV: 5 ppm Vägledande KGV: 25 mg/m ³ *	TWA: 0.5 ppm TWA: 2.5 mg/m ³ STEL: 1 ppm STEL: 5 mg/m ³ H*	TWA: 2 ppm TWA: 9.9 mg/m ³ STEL: 6 ppm STEL: 29.7 mg/m ³ Sk*
Trichloroethylene 79-01-6	NGV: 10 ppm NGV: 54 mg/m ³ Bindande KGV: 25 ppm Bindande KGV: 140 mg/m ³ *	TWA: 20 ppm TWA: 110 mg/m ³ STEL: 50 ppm STEL: 273 mg/m ³ H*	TWA: 100 ppm TWA: 550 mg/m ³ STEL: 150 ppm STEL: 820 mg/m ³ Sk*
Tribromomethane 75-25-2	-	TWA: 0.5 ppm TWA: 5 mg/m ³ H*	-
Tetrachloromethane 56-23-5	NGV: 1 ppm NGV: 6.4 mg/m ³ Bindande KGV: 3 ppm Bindande KGV: 19 mg/m ³ *	TWA: 1 ppm TWA: 6.4 mg/m ³ STEL: 5 ppm STEL: 32 mg/m ³ H*	TWA: 1 ppm TWA: 6.4 mg/m ³ STEL: 5 ppm STEL: 32 mg/m ³ Sk*
Benzene 71-43-2	NGV: 0.5 ppm NGV: 1.5 mg/m ³ Bindande KGV: 3 ppm Bindande KGV: 9 mg/m ³ Sk*	TWA: 0.2 ppm TWA: 0.7 mg/m ³ Sk*	TWA: 1 ppm TWA: 3.25 mg/m ³ STEL: 3 ppm STEL: 9.75 mg/m ³ Sk*
1,4-Dichlorobenzene 106-46-7	NGV: 2 ppm NGV: 12 mg/m ³ Bindande KGV: 10 ppm Bindande KGV: 60 mg/m ³ Sk*	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 60 mg/m ³ Sk*	TWA: 2 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 60 mg/m ³ Sk*
1,2-dichloroethane 107-06-2	NGV: 1 ppm NGV: 4 mg/m ³ Bindande KGV: 5 ppm Bindande KGV: 20 mg/m ³ Sk*	TWA: 2 ppm TWA: 8.2 mg/m ³ Sk*	TWA: 5 ppm TWA: 21 mg/m ³ STEL: 15 ppm STEL: 63 mg/m ³ Sk*
1,1-Dichloroethylene 75-35-4	NGV: 2 ppm NGV: 8 mg/m ³ Bindande KGV: 5 ppm Bindande KGV: 20 mg/m ³	TWA: 2 ppm TWA: 8 mg/m ³ STEL: 5 ppm STEL: 20 mg/m ³	TWA: 2 ppm TWA: 8 mg/m ³ STEL: 5 ppm STEL: 20 mg/m ³
1,1,1-Trichloroethane 71-55-6	NGV: 50 ppm NGV: 300 mg/m ³ Bindande KGV: 200 ppm Bindande KGV: 1110 mg/m ³	TWA: 100 ppm TWA: 555 mg/m ³ STEL: 200 ppm STEL: 1110 mg/m ³	TWA: 100 ppm TWA: 555 mg/m ³ STEL: 200 ppm STEL: 1110 mg/m ³



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DRE-YA05000007ME - VOC-Mix 7 2000 µg/mL in Methanol

		H*	
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Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Methanol 67-56-1	-	-	-	7.0 mg/g Creatinine - urine (Methanol) - at the end of the work shift	0.47 mmol/L (urine - Methanol end of shift) 15 mg/L (urine - Methanol end of shift)
Trichloromethane 67-66-3	-	40 mg/L (urine - Trichloroacetic acid not provided) <=39 U/l (- Serum transaminases GGT not provided) <=66 U/l (- Serum transaminases GGT not provided) <=35 U/l (- Serum transaminases SGPT not provided) <=50 U/l (- Serum transaminases SGPT not provided) <=35 U/l (- Serum transaminases SGOT not provided) <=50 U/l (- Serum transaminases SGOT not provided)	-	-	-
Trichloroethylene 79-01-6	-	<=50 U/l (- Serum transaminases SGOT not provided) 40 mg/L (urine - Trichloroacetic acid not provided) <=50 U/l (- Serum transaminases SGPT not provided) <=35 U/l (- Serum transaminases SGOT not provided)	-	20 mg/L - urine (Trichloroacetic acid) - at the end of the work shift and at the end of the working week 16.7 mg/g Creatinine - urine (Trichloroacetic acid) - at the end of the work shift and at the end of the working	70 µmol/mmol Creatinine (urine - Trichloroacetic acid end of workweek) 150 µmol/mmol Creatinine (urine - Trichloroethanol end of shift) 100 mg/g Creatinine (urine - Trichloroacetic acid end of workweek)



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		<=35 U/l (- Serum transaminases SGPT not provided) <=39 U/l (- Serum transaminases GGT not provided) <=66 U/l (- Serum transaminases GGT not provided)		week	200 mg/g Creatinine (urine - Trichloroethanol end of shift)
Tetrachloromethane 56-23-5	-	40 mg/L (urine - Trichloroacetic acid not provided) <=39 U/l (- Serum transaminases GGT not provided) <=66 U/l (- Serum transaminases GGT not provided) <=35 U/l (- Serum transaminases SGPT not provided) <=50 U/l (- Serum transaminases SGPT not provided) <=35 U/l (- Serum transaminases SGOT not provided) <=50 U/l (- Serum transaminases SGOT not provided)	-	70 µg/L - blood (Tetrachloromethane) - at the end of the work shift	-
Benzene 71-43-2	-	Check 10 g/dL Hemoglobin (blood - by the first screening and once yearly or for work in coking plants every six months) 12 g/dL Hemoglobin (blood - by the first screening and once yearly or for work in coking plants every six months) 79 - 97 fL mean corpuscular volume (blood - by the first	2.0 mg/L - urine (Trans,trans-Muconic acid) - at the end of exposure or end of work shift 0.045 mg/g Creatinine - urine (S-Phenyl Mercapturic acid) - at the end of exposure or end of work shift	28 µg/L - blood (Benzene) - right at the end of the work shift 46 µg/g Creatinine - urine (S-Phenylmercapturic acid) - at the end of the work shift	0.024 µmol/mmol Creatinine (urine - S-Phenylmercapturic acid end of shift) 0.05 mg/g Creatinine (urine - S-Phenylmercapturic acid end of shift) 1.2 µmol/mmol Creatinine (urine - trans,trans-Muconic acid end of shift) 1.5 mg/g Creatinine (urine - trans,trans-Muconic acid end of shift)



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		screening and once yearly or for work in cokery plants every six months) 3.8 million/µL Erythrocytes (blood - by the first screening and once yearly or for work in cokery plants every six months) 3.2 million/µL Erythrocytes (blood - by the first screening and once yearly or for work in cokery plants every six months) 13000 Leukocytes/µL (blood - by the first screening and once yearly or for work in cokery plants every six months) 4000 Leukocytes/µL (blood - by the first screening and once yearly or for work in cokery plants every six months) 130000 Thrombocytes/µL (blood - by the first screening and once yearly or for work in cokery plants every six months) 150000 Thrombocytes/µL (blood - by the first screening and once yearly or for work in cokery plants every six months) 1.6 mg/L (urine -			
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		t,t-Muconic acid after end of work day, at the end of a work week/end of the shift)			
1,1,1-Trichloroethane 71-55-6	-	-	-	550 µg/L - blood (1,1,1-Trichloroetha ne) - before the start of the work shift after several consecutive shifts 30.0 mg/g Creatinine - urine (Trichloroethanol) - at the end of the work shift	-
Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
Methanol 67-56-1	-	-	- urine (Methanol) - end of shift	15 mg/L (urine - Methanol end of shift) 15 mg/L (urine - Methanol for long-term exposures: at the end of the shift after several shifts) 15 mg/L - BAT (end of exposure or end of shift) urine	15 mg/L (urine - Methanol end of shift) 15 mg/L (urine - Methanol for long-term exposures: at the end of the shift after several shifts)
Trichloroethylene 79-01-6	-	120 µmol/L (urine - Trichloroacetic acid after the shift at the end of a exposure period)	4 mg/L - blood (Free Trichloroethanol) - end of shift at end of workweek 300 mg/g creatinine - urine (Sum of Trichloroacetic acid and Trichloroethanol) - end of shift at end of workweek 100 mg/g creatinine - urine (Trichloroacetic acid) - end of workweek	0.07 mg/L - BAR (end of exposure or end of shift) urine 0.07 mg/L - BAR (for long-term exposures: at the end of the shift after several shifts) urine 1.2 mg/L - (end of exposure or end of shift) - urine 12 mg/L - (end of exposure or end of shift) - urine 20 mg/L - (end of exposure or end of shift) - urine	-



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				22 mg/L - (end of exposure or end of shift) - urine 30 mg/L - (end of exposure or end of shift) - urine 40 mg/L - (end of exposure or end of shift) - urine 50 mg/L - (end of exposure or end of shift) - urine 1.2 mg/L - (long-term exposure: at the end of the shift after several shifts) - urine 12 mg/L - (long-term exposure: at the end of the shift after several shifts) - urine 20 mg/L - (long-term exposure: at the end of the shift after several shifts) - urine 22 mg/L - (long-term exposure: at the end of the shift after several shifts) - urine 30 mg/L - (long-term exposure: at the end of the shift after several shifts) - urine 40 mg/L - (long-term exposure: at the end of the shift after several shifts) - urine 50 mg/L - (long-term exposure: at the end of the shift after several shifts) -	
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				urine	
Tetrachloromethane 56-23-5	-	-	-	3.5 µg/L (whole blood - Tetrachloromethane end of shift) 3.5 µg/L (whole blood - Tetrachloromethane for long-term exposures: at the end of the shift after several shifts) 3.5 µg/L - BAT (for long-term exposures: at the end of the shift after several shifts) blood	3.5 µg/L (whole blood - Tetrachloromethane end of shift) 3.5 µg/L (whole blood - Tetrachloromethane for long-term exposures: at the end of the shift after several shifts)
Benzene 71-43-2	-	-	- urine (Muconic acid) - end of shift	0.3 µg/g Creatinine - BAR (for long-term exposures: at the end of the shift after several shifts) urine 150 µg/g Creatinine - BAR (end of exposure or end of shift) urine 0.3 µg/L - BAR (end of exposure or end of shift) urine 0.5 µg/L - (end of exposure or end of shift) - urine 0.8 µg/L - (end of exposure or end of shift) - urine 1.5 µg/L - (end of exposure or end of shift) - urine 2.75 µg/L - (end of exposure or end of shift) - urine 5.0 µg/L - (end of exposure or end of shift) - urine 7.5 µg/L - (end of exposure or end of	-



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				shift) - urine 12.5 µg/L - (end of exposure or end of shift) - urine 300 µg/g Creatinine - (end of exposure or end of shift) - urine 500 µg/g Creatinine - (end of exposure or end of shift) - urine 750 µg/g Creatinine - (end of exposure or end of shift) - urine 1200 µg/g Creatinine - (end of exposure or end of shift) - urine 1.5 µg/g Creatinine - (end of exposure or end of shift) - urine 3 µg/g Creatinine - (end of exposure or end of shift) - urine 5 µg/g Creatinine - (end of exposure or end of shift) - urine 12 µg/g Creatinine - (end of exposure or end of shift) - urine 25 µg/g Creatinine - (end of exposure or end of shift) - urine 45 µg/g Creatinine - (end of exposure or end of shift) - urine 90 µg/g Creatinine - (end of exposure or end of shift) - urine	
1,4-Dichlorobenzene 106-46-7	-	-	-	10 mg/L (urine - 2,5-Dichlorophenol (after hydrolysis) end of shift) 10 mg/L (urine - 2,5-Dichlorophenol (after hydrolysis) for long-term	10 mg/L (urine - 2,5-Dichlorophenol (after hydrolysis) end of shift) 10 mg/L (urine - 2,5-Dichlorophenol (after hydrolysis) for long-term



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				exposures: at the end of the shift after several shifts) 25 µg/L - BAR (for long-term exposures: at the end of the shift after several shifts) urine 10 mg/L - BAT (for long-term exposures: at the end of the shift after several shifts) urine 10 mg/L - (end of exposure or end of shift) - urine 20 mg/L - (end of exposure or end of shift) - urine 30 mg/L - (end of exposure or end of shift) - urine 60 mg/L - (end of exposure or end of shift) - urine 90 mg/L - (end of exposure or end of shift) - urine 10 mg/L - (long-term exposure: at the end of the shift after several shifts) - urine 20 mg/L - (long-term exposure: at the end of the shift after several shifts) - urine 30 mg/L - (long-term exposure: at the end of the shift after several shifts) - urine 60 mg/L - (long-term exposure: at the end of the shift	exposures: at the end of the shift after several shifts)
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				after several shifts) - urine 90 mg/L - (long-term exposure: at the end of the shift after several shifts) - urine	
1,1,1-Trichloroethane 71-55-6	-	-	1 mg/L - blood (Total Trichloroethanol) - end of shift at end of workweek 30 mg/L - urine (Total Trichloroethanol) - end of shift at end of workweek 10 mg/L - urine (Trichloroacetic acid) - end of workweek	275 µg/L (whole blood - 1,1,1-Trichloroethan e before subsequent shift, after several preceding shifts) 275 µg/L - BAT (at the beginning of the next shift, after several shifts) blood	275 µg/L (whole blood - 1,1,1-Trichloroethan e before subsequent shift, after several preceding shifts)
Chemical name	Hungary	Ireland	Italy MDLPS	Italy AIDII	
Methanol 67-56-1	30 mg/L (urine - Methanol end of shift) 940 µmol/L (urine - Methanol end of shift)	15 mg/L (urine - Methanol end of shift)	-	15 mg/L - urine (Methanol) - end of shift	
Trichloroethylene 79-01-6	20 mg/L (urine - Trichloroacetic acid at end of workweek, end of shift) 122 µmol/L (urine - Trichloroacetic acid at end of workweek, end of shift)	20 mg/L (urine - Trichloroacetic acid by the end of the last shift of workweek/shift period)	-	15 mg/L - urine (Trichloroacetic acid) - end of shift at end of workweek 0.5 mg/L - blood (Trichloroethanol (without hydrolysis)) - end of shift at end of workweek - blood (Trichloroethylene) - end of shift at end of workweek - end-exhaled air (Trichloroethylene) - end of shift at end of workweek	
Benzene 71-43-2	0.04 mg/g Creatinine (urine - s-Phenyl mercapturic acid end of shift) 0.22 µmol/mmol Creatinine (urine - s-Phenyl mercapturic acid	25 µg/g Creatinine (urine - s-Phenylmercapturic acid end of shift) 500 µg/g Creatinine (urine - t,t-Muconic acid end of shift)	-	25 µg/g Creatinine - urine (S-Phenylmercapturic acid) - end of shift 500 µg/g Creatinine - urine (t,t-Muconic acid) - end of shift	



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	end of shift)			
1,1,1-Trichloroethane 71-55-6	-	40 ppm (end-exhaled air - Methyl chloroform prior to last shift of workweek) 10 mg/L (urine - Trichloroacetic acid end of workweek - end of shift at end of workweek) 30 mg/L (urine - Trichloroethanol end of workweek - end of shift at end of workweek) 1 mg/L (blood - Trichloroethanol end of shift at end of workweek)	-	40 ppm - end-exhaled air (Methyl chloroform) - prior to last shift of workweek 10 mg/L - urine (Trichloroacetic acid) - end of workweek 30 mg/L - urine (Total Trichloroethanol) - end of shift at end of workweek 1 mg/L - blood (Total Trichloroethanol) - end of shift at end of workweek
Chemical name	Latvia	Luxembourg	Romania	Slovakia
Methanol 67-56-1	-	-	6 mg/L - urine (Methanol) - end of shift	30 mg/L (urine - Methanol end of exposure or work shift) 30 mg/L (urine - Methanol after all work shifts)
Tetrachloromethane 56-23-5	-	-	-	3.5 µg/L (blood - Tetrachloromethane end of exposure or work shift) 3.5 µg/L (blood - Tetrachloromethane after all work shifts)
Benzene 71-43-2	46 µg/g Creatinine - urine (Phenol) - end of shift 28 µg/L - blood () - end of shift	-	25 µg/g Creatinine - urine (S-Phenylmercapturic acid) - end of shift 500 µg/g Creatinine - urine (trans,trans-Muconic acid) - end of shift 50 mg/L - urine (total Phenols) - end of shift	-
1,4-Dichlorobenzene 106-46-7	-	-	150 µg/g Creatinine - urine (total 2,5-Dichlorophenol) - end of shift	-
1,1,1-Trichloroethane 71-55-6	-	-	-	550 µg/L (blood - 1,1,1-Trichloroethane end of exposure or work shift) 550 µg/L (blood - 1,1,1-Trichloroethane after all work shifts)
Chemical name	Slovenia	Spain	Switzerland	United Kingdom



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Methanol 67-56-1	15 mg/L - urine (Methanol) - at the end of the work shift; for long-term exposure: at the end of the work shift after several consecutive workdays	15 mg/L (urine - Methanol end of shift)	30 mg/L (urine - Methanol end of shift, and after several shifts (for long-term exposures)) 936 µmol/L (urine - Methanol end of shift, and after several shifts (for long-term exposures))	-
Trichloroethylene 79-01-6	22 mg/L - urine (Trichloroacetic acid) - at the end of the work shift; in case of prolonged exposure, at the end of the work shift after several consecutive working hours	15 mg/L (urine - Trichloroacetic acid end of workweek) 0.5 mg/L (blood - Trichloroethanol (without hydrolysis) end of workweek)	40 mg/L (urine - Trichloroacetic acid end of shift, and after several shifts (for long-term exposures))	-
Tetrachloromethane 56-23-5	3.5 µg/L - blood (Tetrachloromethane) - at the end of the work shift; for long-term exposure: at the end of the work shift after several consecutive workdays	-	-	-
Benzene 71-43-2	5 µg/L - urine (Benzene) - at the end of the work shift 0.025 mg/g Creatinine - urine ((S)-Phenylmercapturic acid) - at the end of the work shift 500 µg/g Creatinine - urine (trans, trans-Muconic acid) - at the end of the work shift	0.045 mg/g Creatinine (urine - S-Phenyl mercapturic acid end of exposure or end of shift) 2 mg/L (urine - trans, trans-Muconic acid end of exposure or end of shift)	8 µg/g creatinine (urine - S-Phenyl-mercapturic acid end of shift) 0.004 µmol/mmol creatinine (urine - S-Phenyl-mercapturic acid end of shift)	-
1,4-Dichlorobenzene 106-46-7	-	-	10 mg/L (urine - 2,5-Dichlorophenol end of shift, and after several shifts (for long-term exposures))	-
1,1,1-Trichloroethane 71-55-6	550 µg/L - blood (1,1,1-Trichloroethane) - for long-term exposure: at the end of the work shift after several consecutive workdays before the next	-	550 µg/L (whole blood - 1,1,1-Trichloroethane before subsequent shift, and after several shifts (for long-term exposures))	-



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	work shift			
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Derived No Effect Level (DNEL) No information available.
Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Personal protective equipment

Eye/face protection Tight sealing safety goggles. Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

Hand protection Wear protective butyl rubber gloves. Wear suitable gloves. Impervious gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

Skin and body protection Long sleeved clothing. Chemical resistant apron. Antistatic boots. Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Do not breathe vapour or mist. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid
Appearance Liquid
Colour colourless
Odour Alcohol.
Odour threshold No information available



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Property	Values	Remarks • Method
Melting point / freezing point	-98 °C	None known
Initial boiling point and boiling range	64.7 °C	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	50 Vol% - 665 g/m ³	
Lower flammability or explosive limits	6 Vol% - 80 g/m ³	
Flash point	11 °C	None known
Autoignition temperature	464 °C	None known
Decomposition temperature		None known
pH	No data available	None known
pH (as aqueous solution)	No data available	No information available
Kinematic viscosity	No data available	None known
Dynamic viscosity	0.544 - 0.59 mPa s	@ 25°C
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	-0.77	None known
Vapour pressure	128 hPa	@ 20°C
Relative density	0.791	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapour density	1.1	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

9.2.1. Information with regards to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.



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Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. Excessive heat.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. Toxic by inhalation. (based on components). May cause drowsiness or dizziness.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available. Toxic in contact with skin. (based on components).
Ingestion	Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Coughing and/ or wheezing. Difficulty in breathing. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Numerical measures of toxicity



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Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	101.70 mg/kg
ATEmix (dermal)	305.50 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-dust/mist)	125.20 mg/l
ATEmix (inhalation-vapour)	3.04 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Methanol	= 6200 mg/kg (Rat)	= 15840 mg/kg (Rabbit)	= 22500 ppm (Rat) 8 h
Trichloromethane	= 450 mg/kg (Rat)	> 20 g/kg (Rabbit)	= 47702 mg/m ³ (Rat) 4 h
Trichloroethylene	= 4920 mg/kg (Rat)	= 29000 mg/kg (Rabbit)	= 26 mg/L (Rat) 4 h
Tribromomethane	= 933 mg/kg (Rat)		
Tetrachloromethane	= 2350 mg/kg (Rat)	= 5070 mg/kg (Rat)	= 8000 ppm (Rat) 4 h
Bromodichloromethane	= 430 mg/kg (Rat)		
Benzene	= 6400 mg/kg (Rat)	> 8200 mg/kg (Rabbit)	= 44.66 mg/L (Rat) 4 h
1,4-Dichlorobenzene	= 500 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.07 mg/L (Rat) 4 h
1,2-dichloroethane	= 680 mg/kg (Rat)	= 4890 mg/kg (Rabbit)	= 4 mg/L (Rat) 6 h
1,1-Dichloroethylene	= 200 mg/kg (Rat)		= 1.66 mg/L (Rat) 4 h
1,1,1-Trichloroethane	= 9600 mg/kg (Rat)	> 15800 mg/kg (Rabbit)	= 18000 ppm (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitisation No information available.



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Germ cell mutagenicity Contains a known or suspected mutagen. Classification based on data available for ingredients. May cause genetic defects.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

Chemical name	European Union
Trichloroethylene	Muta. 2
Benzene	Muta. 1B

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union
Trichloromethane	Carc. 2
Trichloroethylene	Carc. 1B
Tetrachloromethane	Carc. 2
Benzene	Carc. 1A
1,4-Dichlorobenzene	Carc. 2
1,2-dichloroethane	Carc. 1B
1,1-Dichloroethylene	Carc. 2

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Trichloromethane	Repr. 2

STOT - single exposure Based on the classification criteria of the Globally Harmonized System as adopted in the country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). Causes damage to organs if swallowed. Causes damage to organs in contact with skin. May cause respiratory irritation. May cause drowsiness or dizziness.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard No information available.

11.2. Information on other hazards



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11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Methanol	-	LC50: =28200mg/L (96h, Pimephales promelas) LC50: >100mg/L (96h, Pimephales promelas) LC50: 19500 - 20700mg/L (96h, Oncorhynchus mykiss) LC50: 18 - 20mg/L (96h, Oncorhynchus mykiss) LC50: 13500 - 17600mg/L (96h, Lepomis macrochirus)	-	-
Trichloromethane	-	LC50: =18mg/L (96h, Lepomis macrochirus) LC50: =18mg/L (96h, Oncorhynchus mykiss) LC50: =300mg/L (96h, Poecilia reticulata) LC50: =71mg/L (96h, Pimephales promelas)	-	EC50: =29mg/L (48h, Daphnia magna)
Trichloroethylene	EC50: =175mg/L (96h, Pseudokirchneriella subcapitata) EC50: =450mg/L (96h, Desmodesmus subspicatus)	LC50: 31.4 - 71.8mg/L (96h, Pimephales promelas) LC50: 39 - 54mg/L (96h, Lepomis macrochirus)	-	EC50: =2.2mg/L (48h, Daphnia magna)



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Tribromomethane	EC50: 42 mg/l (Algae, 72h) EC50: 38.6 mg/l (Algae, 96h)	LC50: 29 mg/l (fish, 96h)	-	EC50: 46 mg/l (48h Crustacean)
Tetrachloromethane	-	LC50: 23 - 33mg/L (96h, <i>Lepomis macrochirus</i>) LC50: 36.3 - 47.3mg/L (96h, <i>Pimephales promelas</i>) LC50: 9.68 - 11.3mg/L (96h, <i>Pimephales promelas</i>)	-	EC50: =29mg/L (48h, <i>Daphnia magna</i>)
Benzene	EC50: =29mg/L (72h, <i>Pseudokirchneriella subcapitata</i>)	LC50: 10.7 - 14.7mg/L (96h, <i>Pimephales promelas</i>) LC50: =5.3mg/L (96h, <i>Oncorhynchus mykiss</i>) LC50: =22.49mg/L (96h, <i>Lepomis macrochirus</i>) LC50: =28.6mg/L (96h, <i>Poecilia reticulata</i>) LC50: 22330 - 41160µg/L (96h, <i>Pimephales promelas</i>) LC50: 70000 - 142000µg/L (96h, <i>Lepomis macrochirus</i>)	-	EC50: 8.76 - 15.6mg/L (48h, <i>Daphnia magna</i>) EC50: =10mg/L (48h, <i>Daphnia magna</i>)
1,4-Dichlorobenzene	-	LC50: 18 - 50mg/L (96h, <i>Pimephales promelas</i>) LC50: =4mg/L (96h, <i>Pimephales promelas</i>) LC50: 1.05 - 1.2mg/L (96h, <i>Oncorhynchus mykiss</i>) LC50: =0.88mg/L (96h, <i>Oncorhynchus mykiss</i>) LC50: 3.9 - 4.8mg/L (96h, <i>Lepomis macrochirus</i>)	-	EC50: 0.7 mg/l (<i>Daphnia magna</i> , 48h)
1,2-dichloroethane	EC50: >433mg/L (96h, <i>Pseudokirchneriella subcapitata</i>) EC50: =166mg/L (96h, <i>Desmodesmus subspicatus</i>)	LC50: =225mg/L (96h, <i>Oncorhynchus mykiss</i>) LC50: 230 - 710mg/L (96h, <i>Lepomis macrochirus</i>) LC50: 110 - 123mg/L (96h, <i>Pimephales</i>)	-	EC50: 140 - 190mg/L (48h, <i>Daphnia magna</i>)



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1,1-Dichloroethylene	-	promelas) LC50: 161 - 179mg/L (96h, Pimephales promelas) LC50: 57 - 91mg/L (96h, Lepomis macrochirus) LC50: 85 - 117mg/L (96h, Pimephales promelas)	-	LC50: 62 - 110mg/L (48h, Daphnia magna) LC50: 9.0 - 14.0mg/L (48h, Daphnia magna)
1,1,1-Trichloroethane	EC50: >500mg/L (96h, Pseudokirchneriella subcapitata)	LC50: 35.2 - 50.7mg/L (96h, Pimephales promelas) LC50: 46 - 59mg/L (96h, Oncorhynchus mykiss) LC50: 57 - 90mg/L (96h, Lepomis macrochirus) LC50: 91 - 126mg/L (96h, Pimephales promelas) LC50: =52.9mg/L (96h, Poecilia reticulata) LC50: =56mg/L (96h, Cyprinus carpio) LC50: =69.7mg/L (96h, Poecilia reticulata)	-	EC50: 9.7 - 12.8mg/L (48h, Daphnia magna) EC50: =2384mg/L (48h, Daphnia magna) LC50: >530mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
Methanol	-0.77
Trichloromethane	2
Trichloroethylene	2.42
Tribromomethane	2.16
Tetrachloromethane	2.75
Bromodichloromethane	1.88
Benzene	2.13
1,4-Dichlorobenzene	3.37
1,2-dichloroethane	1.45
1,1-Dichloroethylene	2.13
1,1,1-Trichloroethane	2.46



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12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
Methanol	The substance is not PBT / vPvB
Trichloromethane	The substance is not PBT / vPvB
Trichloroethylene	The substance is not PBT / vPvB
Tribromomethane	The substance is not PBT / vPvB
Tetrachloromethane	The substance is not PBT / vPvB
Bromodichloromethane	The substance is not PBT / vPvB
Benzene	The substance is not PBT / vPvB
1,4-Dichlorobenzene	The substance is not PBT / vPvB
1,2-dichloroethane	The substance is not PBT / vPvB
1,1-Dichloroethylene	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

SECTION 14: Transport information

IATA



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14.1 UN number or ID number	UN1230
14.2 UN proper shipping name	Methanol mixture
14.3 Transport hazard class(es)	3
Subsidiary hazard class	6.1
14.4 Packing group	II
Description	UN1230, Methanol mixture, 3 (6.1), II
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	A113
ERG Code	3L

IMDG

14.1 UN number or ID number	UN1230
14.2 UN proper shipping name	Methanol mixture
14.3 Transport hazard class(es)	3
Subsidiary hazard class	6.1
14.4 Packing group	II
Description	UN1230, Methanol mixture, 3 (6.1), II, (11°C c.c.)
14.5 Marine pollutant	NP
Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	279
EmS-No.	F-E, S-D No information available
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	UN1230
14.2 UN proper shipping name	Methanol mixture
14.3 Transport hazard class(es)	3
Subsidiary hazard class	6.1
14.4 Packing group	II
Description	UN1230, Methanol mixture, 3 (6.1), II
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	279
Classification code	FT1

ADR

14.1 UN number or ID number	UN1230
14.2 UN proper shipping name	Methanol mixture
14.3 Transport hazard class(es)	3
Subsidiary hazard class	6.1
14.4 Packing group	II
Description	UN1230, Methanol mixture, 3 (6.1), II, (D/E)
14.5 Environmental hazards	No



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14.6 Special precautions for user

Special Provisions 279
Classification code FT1
Tunnel restriction code (D/E)

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Methanol 67-56-1	RG 84	-
Trichloromethane 67-66-3	RG 12	-
Trichloroethylene 79-01-6	RG 3, RG 12	-
Tribromomethane 75-25-2	RG 12	-
Tetrachloromethane 56-23-5	RG 11	-
Benzene 71-43-2	RG 4, RG 4bis, RG 84	-
1,4-Dichlorobenzene 106-46-7	RG 9	-
1,2-dichloroethane 107-06-2	RG 12	-
1,1-Dichloroethylene 75-35-4	RG 12	-
1,1,1-Trichloroethane 71-55-6	RG 12	-

Germany

Water hazard class (WGK) strongly hazardous to water (WGK 3)
TA Luft (German Air Pollution Control Regulation)

Netherlands

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Carcinogens	Netherlands - List of Reproductive Toxins
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Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Carcinogens	Netherlands - List of Reproductive Toxins
Trichloromethane	-	-	Development Category 1B
Trichloroethylene	Present	-	Development Category 1B
Bromodichloromethane	Present	-	-
Benzene	Present	Present	-
1,2-dichloroethane	Present	-	-

Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650). Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)
This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)



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DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Methanol - 67-56-1	Use restricted. See entry 69. Use restricted. See entry 75.	
Trichloromethane - 67-66-3	32.	
Trichloroethylene - 79-01-6	28.	X
Benzene - 71-43-2	72. 5. 28. 29. 75.	
1,4-Dichlorobenzene - 106-46-7	64. 75.	
1,2-dichloroethane - 107-06-2	Use restricted. See entry 28. Use restricted. See entry 75.	26.
1,1-Dichloroethylene - 75-35-4	38.	

Persistent Organic Pollutants

Not applicable

Export Notification requirements

This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

Chemical name	European Export/Import Restrictions per (EC) 649/2012 - Annex Number
Trichloromethane - 67-66-3	I.1
Tetrachloromethane - 56-23-5	I.1
Benzene - 71-43-2	I.1
1,2-dichloroethane - 107-06-2	I.1 I.3
1,1-Dichloroethylene - 75-35-4	I.1
1,1,1-Trichloroethane - 71-55-6	I.1

Dangerous substance category per Seveso Directive (2012/18/EU)

H2 - ACUTE TOXIC

H3 - STOT SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

Named dangerous substances per Seveso Directive (2012/18/EU)

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
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Methanol - 67-56-1	500	5000
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Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Chemical name	Ozone depletion potential (ODP)	Ozone-depleting substances (ODS) regulation (EC) 1005/2009
Tetrachloromethane - 56-23-5	1.1 ODP	Group I: Chlorofluorocarbons (CFCs) Group IV: Carbon tetrachloride
1,1,1-Trichloroethane - 71-55-6	0.1 ODP	Group V: 1,1,1-Trichloroethane

EU - Water Framework Directive (2000/60/EC)

Chemical name	EU - Water Framework Directive (2000/60/EC)
Trichloromethane - 67-66-3	Priority substance
Benzene - 71-43-2	Priority substance
1,2-dichloroethane - 107-06-2	Priority substance

EU - Environmental Quality Standards (2008/105/EC)

Chemical name	EU - Environmental Quality Standards (2008/105/EC)
Trichloromethane - 67-66-3	Priority substance
Benzene - 71-43-2	Priority substance
1,2-dichloroethane - 107-06-2	Priority substance

International Inventories

TSCA

LGC, to the best of its ability, has confirmed that the chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") of Feb 2019, as amended Feb 2021."

DSL/NDSL

Contact supplier for inventory compliance status

EINECS/ELINCS

Contact supplier for inventory compliance status

ENCS

Contact supplier for inventory compliance status

IECSC

Contact supplier for inventory compliance status

KECI

Contact supplier for inventory compliance status

PICCS

Contact supplier for inventory compliance status

AIIC

Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances



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AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report

A Chemical Safety Assessment is not required for this substance

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H224 - Extremely flammable liquid and vapour
H225 - Highly flammable liquid and vapour
H226 - Flammable liquid and vapour
H301 - Toxic if swallowed
H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H311 - Toxic in contact with skin
H315 - Causes skin irritation
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H330 - Fatal if inhaled
H331 - Toxic if inhaled
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H340 - May cause genetic defects
H341 - Suspected of causing genetic defects
H350 - May cause cancer
H351 - Suspected of causing cancer
H360 - May damage fertility or the unborn child
H361d - Suspected of damaging the unborn child
H370 - Causes damage to organs
H372 - Causes damage to organs through prolonged or repeated exposure
H373 - May cause damage to organs through prolonged or repeated exposure
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects
H420 - Harms public health and the environment by destroying ozone in the upper atmosphere

Legend

SVHC: Substances of Very High Concern for Authorisation:



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Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)
Ceiling Maximum limit value Sk* Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method
Flammable liquids	On basis of test data

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AELG(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications



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Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Revision date 13-Jun-2024

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

End of Safety Data Sheet