



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 05-Oct-2022

Revision Number 1

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

1.1. Product identifier

Product Code(s) DRE-A50000283MD
Product Name BNA Surrogate Standards Mixture 1000-1500 µg/mL in Methanol/Dichloromethane
Unique Formula Identifier (UFI) 8Y3A-30WV-800M-WY0Y
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

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

Emergency Telephone - §45 - (EC)1272/2008	
Europe	112
Austria	No information available



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Bulgaria	
Croatia	
Cyprus	
Czech Republic	
Denmark	
France	
Hungary	
Ireland	
Italy	
Lithuania	
Luxembourg	(+352) 8002 5500 Free telephone number with a 24/7 access in French, Dutch and English.
Netherlands	
Norway	
Portugal	
Romania	
Slovakia	
Slovenia	
Spain	
Sweden	
Switzerland	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Oral	Category 3 - (H301)
Acute toxicity - Dermal	Category 3 - (H311)
Acute toxicity - Inhalation (Vapours)	Category 3 - (H331)
Carcinogenicity	Category 2 - (H351)
Specific target organ toxicity — single exposure	Category 1
Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements

Contains Methylene chloride, Methanol



Signal word
Danger



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Hazard statements

H301 - Toxic if swallowed
H311 - Toxic in contact with skin
H331 - Toxic if inhaled
H351 - Suspected of causing cancer
H370 - Causes damage to organs
H412 - Harmful to aquatic life with long lasting effects Contains 2,4,6-Tribromophenol

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

P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P264 - Wash face, hands and any exposed skin thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

2.3. Other hazards

Causes mild skin irritation. Harmful to aquatic life.

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

Chemical name	EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very High Concern (SVHC) for Authorisation	EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of Substances
Methylene chloride	-	-
Methanol	-	-
2,4,6-Tribromophenol	-	-

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	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Methylene chloride 75-09-2	40 - 60	-	200-838-9	Carc. 2 (H351)			
Methanol	40 - 60	-	200-659-6	Acute Tox. 3 (H301)	STOT SE 1 ::		



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67-56-1				Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370) Flam. Liq. 2 (H225)	C>=10% STOT SE 2 :: 3%<=C<10%		
Phenol-d5 4165-62-2	0.1 - 1	-	685-274-5	Acute Tox. 3 (H301) Skin Corr. 1B (H314) Muta. 2 (H341) STOT RE 2 (H373)			
2-Chlorophenol-d4 93951-73-6	0.1 - 1	-	687-181-5	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Aquatic Chronic 2 (H411)			
2,4,6-Tribromophenol 118-79-6	0.1 - 1	-	204-278-6	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)			
Nitrobenzene-d5 4165-60-0	0.1 - 1	-	224-014-3	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Carc. 2 (H351) STOT RE 1 (H372) Aquatic Chronic 3 (H412)			
4-Terphenyl D14 1718-51-0	0.1 - 1	-	625-035-4	Acute Tox. 4 (H302) SE 3 (H335) Acute 1 (H400)			
2-Fluorobiphenyl 321-60-8	0.1 - 1	-	206-290-7	STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)			
1,2-Dichlorobenzene-d4 2199-69-1	0.1 - 1	-	218-606-0	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)			



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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
Methylene chloride 75-09-2	No data available	No data available	No data available	86	No data available
Methanol 67-56-1	6200	15840	No data available	41.6976	No data available
2-Chlorophenol-d4 93951-73-6	670	1000	2.05	No data available	No data available
2,4,6-Tribromophenol 118-79-6	2963	5000	No data available	No data available	No data available
Nitrobenzene-d5 4165-60-0	349	760	2.847	No data available	No data available

Additional information

This product contains a stable isotope.

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

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

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical advice/attention. Keep eye wide open while rinsing.



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Skin contact	Get immediate medical advice/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 advice/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. 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. Use personal protective equipment as required. See section 8 for more information.

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

Symptoms	Coughing and/ or wheezing. Difficulty in breathing. Prolonged contact may cause redness and irritation.
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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	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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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.
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5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	No information available.
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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.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures



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Personal precautions Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Do not breathe vapour or mist. Keep people away from and upwind of spill/leak.

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

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.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

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. 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. Do not eat, drink or smoke when using this product.

General hygiene considerations Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Do not breathe vapour or mist. Contaminated work clothing should not be allowed out of the workplace. 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 Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place. 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 given on the CoA.



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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
Methylene chloride 75-09-2	* STEL: 706 mg/m ³ STEL: 200 ppm TWA: 353 mg/m ³ TWA: 100 ppm	TWA: 50 ppm TWA: 175 mg/m ³ STEL 200 ppm STEL 700 mg/m ³ H*	TWA: 50 ppm TWA: 177 mg/m ³ STEL: 200 ppm STEL: 706 mg/m ³ *	STEL: 706 mg/m ³ STEL: 200 ppm TWA: 353 mg/m ³ TWA: 100 ppm K*	TWA: 100 ppm TWA: 353 mg/m ³ STEL: 200 ppm STEL: 706 mg/m ³ *
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 H*	TWA: 200 ppm TWA: 266 mg/m ³ STEL: 250 ppm STEL: 333 mg/m ³ *	TWA: 200 ppm TWA: 260.0 mg/m ³ K*	TWA: 200 ppm TWA: 260 mg/m ³ *
Nitrobenzene-d5 4165-60-0	TWA: 0.2 ppm TWA: 1 mg/m ³ *	TWA: 0.2 ppm TWA: 1 mg/m ³ STEL 0.8 ppm STEL 4 mg/m ³ H*	TWA: 0.2 ppm TWA: 1 mg/m ³ *	TWA: 0.2 ppm TWA: 1.0 mg/m ³ K*	TWA: 0.2 ppm TWA: 1 mg/m ³ *
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Methylene chloride 75-09-2	* STEL: 706 mg/m ³ STEL: 200 ppm TWA: 353 mg/m ³ TWA: 100 ppm	TWA: 200 mg/m ³ Ceiling: 500 mg/m ³ *	TWA: 35 ppm TWA: 122 mg/m ³ H*	TWA: 35 ppm TWA: 120 mg/m ³ STEL: 70 ppm STEL: 250 mg/m ³ A*	TWA: 50 ppm TWA: 177 mg/m ³ STEL: 100 ppm STEL: 353 mg/m ³ iho*
Methanol 67-56-1	* TWA: 200 ppm TWA: 260 mg/m ³	TWA: 250 mg/m ³ Ceiling: 1000 mg/m ³ *	TWA: 200 ppm TWA: 260 mg/m ³ H*	TWA: 200 ppm TWA: 250 mg/m ³ STEL: 250 ppm STEL: 350 mg/m ³ A*	TWA: 200 ppm TWA: 270 mg/m ³ STEL: 250 ppm STEL: 330 mg/m ³ iho*
2-Chlorophenol-d4 93951-73-6	-	-	TWA: 0.5 mg/m ³ H*	-	-
Nitrobenzene-d5 4165-60-0	* TWA: 0.2 ppm TWA: 1 mg/m ³	TWA: 1 mg/m ³ Ceiling: 2 mg/m ³ *	TWA: 0.2 ppm TWA: 1 mg/m ³ H*	TWA: 0.2 ppm TWA: 1 mg/m ³ A*	TWA: 0.2 ppm TWA: 1 mg/m ³ STEL: 1 ppm STEL: 5.1 mg/m ³



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Chemical name	France	Germany	Germany MAK	Greece	Hungary
Methylene chloride 75-09-2	TWA: 50 ppm TWA: 178 mg/m ³ STEL: 100 ppm STEL: 356 mg/m ³ *	TWA: 50 ppm TWA: 180 mg/m ³ H*	TWA: 50 ppm TWA: 180 mg/m ³ Peak: 100 ppm Peak: 360 mg/m ³ *	TWA: 100 ppm TWA: 353 mg/m ³ STEL: 200 ppm STEL: 706 mg/m ³ skin - potential for cutaneous absorption	TWA: 353 mg/m ³ STEL: 10 mg/m ³ *
Methanol 67-56-1	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 1000 ppm STEL: 1300 mg/m ³ *	TWA: 100 ppm TWA: 130 mg/m ³ H*	TWA: 100 ppm TWA: 130 mg/m ³ Peak: 200 ppm Peak: 260 mg/m ³ *	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³ skin - potential for cutaneous absorption	TWA: 260 mg/m ³ *
Nitrobenzene-d5 4165-60-0	TWA: 0.2 ppm TWA: 1 mg/m ³	TWA: 0.51 mg/m ³ TWA: 0.1 ppm	TWA: 0.1 ppm TWA: 0.51 mg/m ³ Peak: 0.4 ppm Peak: 2.04 mg/m ³ *	TWA: 0.2 ppm TWA: 1 mg/m ³ skin - potential for cutaneous absorption	TWA: 1 mg/m ³ *
Chemical name	Ireland	Italy	Italy REL	Latvia	Lithuania
Methylene chloride 75-09-2	TWA: 100 ppm TWA: 353 mg/m ³ STEL: 200 ppm STEL: 706 mg/m ³ Sk*	TWA: 175 mg/m ³ TWA: 50 ppm STEL: 353 mg/m ³ STEL: 100 ppm pelle*	TWA: 50 ppm TWA: 174 mg/m ³	TWA: 120 mg/m ³ TWA: 34 ppm STEL: 150 mg/m ³ STEL: 42 ppm *	* TWA: 35 ppm TWA: 120 mg/m ³ STEL: 70 ppm STEL: 250 mg/m ³
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 pelle*	TWA: 200 ppm TWA: 262 mg/m ³ STEL: 250 ppm STEL: 328 mg/m ³ *	TWA: 200 ppm TWA: 260 mg/m ³ *	* TWA: 200 ppm TWA: 260 mg/m ³
Nitrobenzene-d5 4165-60-0	TWA: 0.2 ppm TWA: 1 mg/m ³ STEL: 0.6 ppm STEL: 3 mg/m ³ Sk*	TWA: 0.2 ppm TWA: 1 mg/m ³ pelle*	TWA: 1 ppm TWA: 5.0 mg/m ³ *	TWA: 0.2 ppm TWA: 1 mg/m ³ *	* TWA: 0.2 ppm TWA: 1 mg/m ³
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Methylene chloride 75-09-2	* STEL: 200 ppm STEL: 706 mg/m ³ TWA: 100 ppm TWA: 353 mg/m ³	* STEL: 200 ppm STEL: 706 mg/m ³ TWA: 100 ppm TWA: 353 mg/m ³	TWA: 353 mg/m ³ STEL: 706 mg/m ³ H*	TWA: 15 ppm TWA: 50 mg/m ³ STEL: 22.5 ppm STEL: 75 mg/m ³ H*	STEL: 353 mg/m ³ TWA: 88 mg/m ³ *
Methanol 67-56-1	* TWA: 200 ppm TWA: 260 mg/m ³	* TWA: 200 ppm TWA: 260 mg/m ³	TWA: 133 mg/m ³ H*	TWA: 100 ppm TWA: 130 mg/m ³ STEL: 125 ppm STEL: 162.5 mg/m ³	STEL: 300 mg/m ³ TWA: 100 mg/m ³ Prohibited - substances or



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				H*	mixtures containing Methanol in weight concentration >3%; except fuels used in the model building, powerboating, fuel cells and biofuels *
Nitrobenzene-d5 4165-60-0	* TWA: 0.2 ppm TWA: 1 mg/m ³	*	TWA: 1 mg/m ³ H*	TWA: 0.2 ppm TWA: 1 mg/m ³ STEL: 3 mg/m ³ STEL: 0.6 ppm H*	TWA: 1 mg/m ³ *
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Methylene chloride 75-09-2	TWA: 353 mg/m ³ TWA: 100 ppm STEL: 706 mg/m ³ STEL: 200 ppm P*	TWA: 100 ppm TWA: 353 mg/m ³ STEL: 200 ppm STEL: 706 mg/m ³ *	TWA: 100 ppm TWA: 353 mg/m ³ * Ceiling: 706 mg/m ³	TWA: 100 ppm TWA: 353 mg/m ³ STEL: STEL ppm STEL: STEL mg/m ³ *	TWA: 50 ppm TWA: 177 mg/m ³ STEL: 100 ppm STEL: 353 mg/m ³
Methanol 67-56-1	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm P*	TWA: 200 ppm TWA: 260 mg/m ³ *	TWA: 200 ppm TWA: 260 mg/m ³ *	TWA: 200 ppm TWA: 260 mg/m ³ STEL: STEL ppm STEL: STEL mg/m ³ *	TWA: 200 ppm TWA: 266 mg/m ³ via dérmica*
2-Chlorophenol-d4 93951-73-6	-	STEL: 10 mg/m ³	-	-	-
Nitrobenzene-d5 4165-60-0	TWA: 0.2 ppm TWA: 1 mg/m ³	TWA: 0.2 ppm TWA: 1 mg/m ³ *	TWA: 1 ppm TWA: 5 mg/m ³ *	TWA: 0.2 ppm TWA: 1 mg/m ³ STEL: STEL ppm STEL: STEL mg/m ³ *	TWA: 0.2 ppm TWA: 1 mg/m ³ via dérmica*
Chemical name	Sweden		Switzerland		United Kingdom
Methylene chloride 75-09-2	NGV: 35 ppm NGV: 120 mg/m ³ Bindande KGV: 70 ppm Bindande KGV: 250 mg/m ³ *		TWA: 50 ppm TWA: 177 mg/m ³ STEL: 200 ppm STEL: 706 mg/m ³ H*		TWA: 353 mg/m ³ TWA: 100 ppm STEL: 200 ppm STEL: 706 mg/m ³ Sk*
Methanol 67-56-1	NGV: 200 ppm NGV: 250 mg/m ³ Vägledande KGV: 250 ppm Vägledande KGV: 350 mg/m ³ *		TWA: 200 ppm TWA: 260 mg/m ³ STEL: 800 ppm STEL: 1040 mg/m ³ H*		TWA: 200 ppm TWA: 266 mg/m ³ STEL: 250 ppm STEL: 333 mg/m ³ Sk*
Nitrobenzene-d5 4165-60-0	NGV: 0.2 ppm NGV: 1 mg/m ³ *		TWA: 0.2 ppm TWA: 1 mg/m ³ STEL: 2 ppm STEL: 10 mg/m ³		TWA: 0.2 ppm TWA: 1 mg/m ³ Sk*



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Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Methylene chloride 75-09-2	-	-	-	800.0 µg/L - blood (Dichloromethane) - at the end of the work shift 0.3 mg/L - urine (Dichloromethane) - at the end of the work shift 0.04 mol COHb/mol Hb (4%) - blood (Carboxyhemoglobin) - at the end of the work shift	-
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)
Nitrobenzene-d5 4165-60-0	-	-	-	0.05 mol MetHb/mol Hb (5%) - blood (Methemoglobin) - at the end of the work shift 100 µg/L - blood (Aniline-hemoglobin conjugate) - after at least three months of exposure	-
Chemical name	Denmark	Finland	France	Germany	Germany
Methylene chloride 75-09-2	-	-	0.2 mg/L - urine (Dichloromethane) - end of shift 3.5 % - blood (Carboxyhémoglobine sanguine) - end of shift	500 µg/L (whole blood - Dichloromethane immediately after exposure) 500 µg/L - BAT (immediately after exposure) blood 0.1 mg/L - (during exposure, at least 2 hours after	500 µg/L (whole blood - Dichloromethane immediately after exposure)



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				beginning of exposure) - whole blood 0.2 mg/L - (during exposure, at least 2 hours after beginning of exposure) - whole blood 0.5 mg/L - (during exposure, at least 2 hours after beginning of exposure) - whole blood 1 mg/L - (during exposure, at least 2 hours after beginning of exposure) - whole blood	
Methanol 67-56-1	-	-	15 mg/L - 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 (for long-term exposures: at the end of the shift after several shifts) urine 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)
Nitrobenzene-d5 4165-60-0	-	-	5 mg/g creatinine - urine (Total p-Nitrophenol) - end of shift at end of workweek 1.5 % of hemoglobin - blood (Methemoglobin) - end of shift	100 µg/L - BLW (after exposure for at least 3 months) erythrocytes	-
Chemical name	Hungary	Ireland	Italy	Italy REL	



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Methylene chloride 75-09-2	0.3 mg/L (urine - Dichloromethane end of shift) 3.5 µmol/L (urine - Dichloromethane end of shift)	4 % hemoglobin (blood - Carboxyhemoglobin measure at end of shift) 0.3 mg/L (urine - Methylene chloride measure at end of shift) 1 mg/L (blood - Methylene chloride measure at end of shift)	-	0.3 mg/L - urine (Dichloromethane) - end of shift
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
Nitrobenzene-d5 4165-60-0	5 mg/g Creatinine (urine - p-Nitrophenol end of shift) 4.0 µmol/mmol Creatinine (urine - p-Nitrophenol end of shift)	5 mg/g Creatinine (urine - p-Nitrophenol end of shift at end of workweek) 1.5 % hemoglobin (blood - Methemoglobin end of shift)	-	1.5 % of hemoglobin - blood (Methemoglobin) - end of shift
Chemical name	Latvia	Luxembourg	Romania	Slovakia
Methylene chloride 75-09-2	-	-	-	1 mg/L (blood - Dichloromethane end of exposure or work shift) 5 % of hemoglobin (blood - Carboxyhemoglobin end of exposure or work shift)
Methanol 67-56-1	-	-	-	30 mg/L (urine - Methanol end of exposure or work shift) 30 mg/L (urine - Methanol after all work shifts)
Chemical name	Slovenia	Spain	Switzerland	United Kingdom
Methylene chloride 75-09-2	500 µg/L - blood (Dichloromethane) - immediately after exposure	0.3 mg/L (urine - Dichloromethane end of shift)	0.5 mg/L (whole blood - Dichloromethane end of shift) 5 % (whole blood - Carbon monoxide in hemoglobin end of shift)	30 ppm - end-tidal breath (Carbon monoxide) - post shift
Methanol 67-56-1	30 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))	-
Nitrobenzene-d5 4165-60-0	100 µg/L - blood (Aniline (released from the Hemoglobin conjugate)) -	-	-	-



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	for long-term exposure: at the end of the work shift after several consecutive workdays 4.07 mmol/mol Creatinine - urine (p-Nitrophenol) - at the end of the work shift 5.0 mg/g Creatinine - urine (p-Nitrophenol) - at the end of the work shift			
--	--	--	--	--

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 Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

Hand protection 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. Wear protective butyl rubber gloves. Wear protective Viton™ gloves.

Skin and body protection Long sleeved clothing. Chemical resistant apron. 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 Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Do not breathe vapour or mist. Contaminated work clothing should not be allowed out of the workplace. 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



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Colour colourless
Odour Chlorine.
Odour threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	No data available	None known
Autoignition temperature	No data available	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	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	None known
Relative density	No data available	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapour density	No data available	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



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Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid 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).

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). Causes mild skin irritation.

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. Prolonged contact may cause redness and irritation.

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)	201.00 mg/kg
ATEmix (dermal)	605.60 mg/kg
ATEmix (inhalation-dust/mist)	501.000 mg/l
ATEmix (inhalation-vapour)	6.06 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Methylene chloride			= 53 mg/L (Rat) 6 h = 86 mg/L (Rat) 4 h
Methanol	= 6200 mg/kg (Rat)	= 15840 mg/kg (Rabbit)	= 22500 ppm (Rat) 8 h
2-Chlorophenol-d4	= 670 mg/kg (Rat)	1000 - 1580 mg/kg (Rat)	= 2.05 mg/L (Rat) 4 h
2,4,6-Tribromophenol	= 2963 mg/kg (Rat)	> 5000 mg/kg (Rat)	> 200 mg/L (Rat) 1 h
Nitrobenzene-d5	= 349 mg/kg (Rat)	= 760 mg/kg (Rabbit)	= 2.847 mg/L (Rat) 4 h

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

Skin corrosion/irritation Classification based on data available for ingredients. Causes mild skin irritation.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitisation No information available.

Germ cell mutagenicity No information available.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

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

Chemical name	European Union
Methylene chloride	Carc. 2
Nitrobenzene-d5	Carc. 2



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Reproductive toxicity No information available.

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

Chemical name	European Union
Nitrobenzene-d5	Repr. 1B

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.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

11.2. Information on other hazards

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 Harmful to aquatic life with long lasting effects.

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Methylene chloride	EC50: >500mg/L (72h, Pseudokirchneriella subcapitata) EC50: >500mg/L (96h, Pseudokirchneriella subcapitata)	LC50: 140.8 - 277.8mg/L (96h, Pimephales promelas) LC50: 262 - 855mg/L (96h, Pimephales promelas) LC50: =193mg/L (96h, Lepomis macrochirus) LC50: 310 mg/l (96h, fish)	-	EC50: 1532 - 1847mg/L (48h, Daphnia magna) EC50: =190mg/L (48h, Daphnia magna) EC50: 1,470 mg/l (48h, crustacean) EC50: 164 mg/l (48h, crustacean)



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Methanol	-	LC50: 13500 - 17600mg/L (96h, <i>Lepomis macrochirus</i>) LC50: 18 - 20mL/L (96h, <i>Oncorhynchus mykiss</i>) LC50: 19500 - 20700mg/L (96h, <i>Oncorhynchus mykiss</i>) LC50: =28200mg/L (96h, <i>Pimephales promelas</i>) LC50: >100mg/L (96h, <i>Pimephales promelas</i>)	-	-
2-Chlorophenol-d4	EC50: =70mg/L (96h, <i>Selenastrum capricornutum</i>)	LC50: 17.68 - 23.64mg/L (96h, <i>Poecilia reticulata</i>) LC50: 5.7 - 8.0mg/L (96h, <i>Lepomis macrochirus</i>) LC50: 7.6 - 15.4mg/L (96h, <i>Oryzias latipes</i>) LC50: 8.64 - 10.2mg/L (96h, <i>Pimephales promelas</i>) LC50: 8.86 - 14.66mg/L (96h, <i>Pimephales promelas</i>) LC50: =13.8mg/L (96h, <i>Poecilia reticulata</i>)	-	EC50: 3.31 - 4.91mg/L (48h, <i>Daphnia magna</i>) EC50: =7.4mg/L (48h, <i>Daphnia magna</i>)
2,4,6-Tribromophenol	EC50: 0.4 - 72mg/L (72h, <i>Pseudokirchneriella subcapitata</i>)	LC50: 1.0 - 96mg/L (96h, <i>Cyprinus carpio</i>) LC50: 4.7 - 9.8mg/L (96h, <i>Pimephales promelas</i>)	-	EC50: 0.26 - 48mg/L (48h, <i>Daphnia magna</i>)
Nitrobenzene-d5	EC50: 3.45 - 38.13mg/L (96h, <i>Pseudokirchneriella subcapitata</i>) EC50: 36 - 88.8mg/L (72h, <i>Pseudokirchneriella subcapitata</i>) EC50: =44.1mg/L (96h, <i>Pseudokirchneriella subcapitata</i>)	LC50: 121 - 150mg/L (96h, <i>Poecilia reticulata</i>) LC50: 36 - 49mg/L (96h, <i>Lepomis macrochirus</i>) LC50: 40.49 - 47.51 mg/L (96h, <i>Pimephales promelas</i>) LC50: =92.2mg/L (96h, <i>Brachydanio rerio</i>)	-	EC50: 25.6 - 42mg/L (48h, <i>Daphnia magna</i>) EC50: =33mg/L (48h, <i>Daphnia magna</i>)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.



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Component Information

Chemical name	Partition coefficient
Methylene chloride	1.25
Methanol	-0.77
2-Chlorophenol-d4	2.15
2,4,6-Tribromophenol	4.02
Nitrobenzene-d5	1.9

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
Methylene chloride	The substance is not PBT / vPvB
Methanol	The substance is not PBT / vPvB PBT assessment does not apply Further information relevant for the PBT assessment is necessary
2,4,6-Tribromophenol	PBT assessment does not apply

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 Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

IATA



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14.1 UN number or ID number	UN1593
14.2 UN proper shipping name	Dichloromethane mixture
14.3 Transport hazard class(es)	6.1
14.4 Packing group	III
Description	UN1593, Dichloromethane mixture, 6.1, III
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None
ERG Code	6L

IMDG

14.1 UN number or ID number	UN1593
14.2 UN proper shipping name	Dichloromethane mixture
14.3 Transport hazard class(es)	6.1
14.4 Packing group	III
Description	UN1593, Dichloromethane mixture, 6.1, III
14.5 Marine pollutant	NP
14.6 Special precautions for user	
Special Provisions	None
EmS-No	F-A, S-A No information available
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	UN1593
14.2 UN proper shipping name	Dichloromethane mixture
14.3 Transport hazard class(es)	6.1
14.4 Packing group	III
Description	UN1593, Dichloromethane mixture, 6.1, III
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	516
Classification code	T1

ADR

14.1 UN number or ID number	UN1593
14.2 UN proper shipping name	Dichloromethane mixture
14.3 Transport hazard class(es)	6.1
14.4 Packing group	III
Description	UN1593, Dichloromethane mixture, 6.1, III, (E)
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	516
Classification code	T1
Tunnel restriction code	(E)

SECTION 15: Regulatory information



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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
Methylene chloride 75-09-2	RG 12	-
Methanol 67-56-1	RG 84	-

Water hazard class (WGK) obviously hazardous to water (WGK 2)

Netherlands

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Carcinogens	Netherlands - List of Reproductive Toxins
Nitrobenzene-d5	-	-	Fertility Category 2

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



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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 restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

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
Methylene chloride - 75-09-2	59.	
Methanol - 67-56-1	69.	

Persistent Organic Pollutants

Not applicable

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

H2 - ACUTE TOXIC

H3 - STOT SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

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

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Methanol - 67-56-1	500	5000

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

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

Chemical name	EU - Water Framework Directive (2000/60/EC)
Methylene chloride - 75-09-2	Priority substance

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

Chemical name	EU - Environmental Quality Standards (2008/105/EC)
Methylene chloride - 75-09-2	Priority substance

International Inventories

TSCA

Contact supplier for inventory compliance status

DSL/NDSL

Contact supplier for inventory compliance status

EINECS/ELINCS

Contact supplier for inventory compliance status



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ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIC	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
- 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

- H225 - Highly flammable liquid and vapour
- H301 - Toxic if swallowed
- H302 - Harmful if swallowed
- H311 - Toxic in contact with skin
- H312 - Harmful in contact with skin
- H314 - Causes severe skin burns and eye damage
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation
- H331 - Toxic if inhaled
- H332 - Harmful if inhaled
- H335 - May cause respiratory irritation
- H341 - Suspected of causing genetic defects
- H351 - Suspected of causing cancer
- 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



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Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

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

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) (AEGL(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)



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Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
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 05-Oct-2022

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