



**Safety Data Sheet**

according to UK REACH Regulation

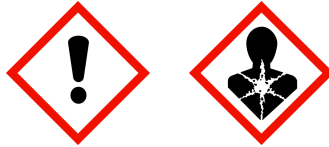
**Dichloromethane**

Revision date: 02.02.2022

Product code: SOL-002

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**Signal word:** Warning

**Pictograms:**

**Hazard statements**

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H351 Suspected of causing cancer.  
 H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

P202 Do not handle until all safety precautions have been read and understood.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.

**Additional advice on labelling**

Warning - substance not yet tested completely.

**2.3. Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients**
**3.1. Substances**
**Chemical characterization**

Dichloromethane

Sum formula: CH<sub>2</sub>Cl<sub>2</sub>  
 Molecular weight: 84,93 g/mol

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
75-09-2	Dichloromethane, methylene chloride			<= 100 %
	200-838-9		01-2119480404-41-XXXX	
	Carc. 2, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT SE 3, STOT RE 2; H351 H315 H319 H335 H336 H373			

Full text of H and EUH statements: see section 16.

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**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
75-09-2	200-838-9	Dichloromethane, methylene chloride	<= 100 % %
		inhalation: LC50 = 52000 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

In all cases of doubt, or when symptoms persist, seek medical advice.

**After inhalation**

Provide fresh air. Medical treatment necessary. Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

In all cases of doubt, or when symptoms persist, seek medical advice.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

**After contact with eyes**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**After ingestion**

Observe risk of aspiration if vomiting occurs. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Rinse mouth thoroughly with water.

Never give anything by mouth to an unconscious person or a person with cramps.

In all cases of doubt, or when symptoms persist, seek medical advice.

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

Refer to chapter 11.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings. Water spray. alcohol resistant foam. Dry extinguishing powder. Carbon dioxide (CO<sub>2</sub>). Sand.

**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

Non-flammable. Thermal decomposition can lead to the escape of irritating gases and vapours.

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Hydrogen chloride (HCl). Phosgene

**5.3. Advice for firefighters**

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

Cool closed containers exposed to fire with water spray.

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**Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Usual measures for fire prevention.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray.  
Avoid contact with skin, eyes and clothes.  
Wear personal protection equipment.  
In case of fire: Evacuate area.

**For non-emergency personnel**

Evacuate the danger area, observe emergency procedures, consult an expert.

Stop and contain spill/release if it can be done safely. Cover drains.  
Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

**For emergency responders**

Cover drains.  
Stop and contain spill/release if it can be done safely.

**6.2. Environmental precautions**

Do not allow to enter into soil/subsoil.  
Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up****For containment**

Cover drains.  
Stop and contain spill/release if it can be done safely.

**For cleaning up**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**Other information**

Take up mechanically, placing in appropriate containers for disposal.  
Soak up inert absorbent and dispose as waste requiring special attention.  
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**6.4. Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13 Treat the recovered material as prescribed in the section on waste disposal.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Use extractor hood (laboratory).  
Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.  
The substance should only be handled in closed apparatus or systems.  
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.  
Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 133).  
Avoid contact with skin, eyes and clothes.

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**Advice on protection against fire and explosion**

Non-combustible liquids  
 Usual measures for fire prevention.  
 Keep respiratory protective device available.

**Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.  
 Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Provide adequate ventilation.

**Further information on handling**

Suitable container/equipment material: Refined steel  
 Only use containers specifically approved for the substance/product.

**7.2. Conditions for safe storage, including any incompatibilities**
**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only.  
 Provide adequate ventilation as well as local exhaust at critical locations. Keep container tightly closed in a cool, well-ventilated place.  
 Containers which are opened carefully and kept upright to prevent leakage.  
 Keep in a cool place.  
 storage temperature: room temperature

**Hints on joint storage**

No special measures are necessary.

**Further information on storage conditions**

Store in a well-ventilated place. Keep container tightly closed. Store locked up.  
 Thermal sensitivity

**7.3. Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**
**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
75-09-2	Dichloromethane	100	353		TWA (8 h)	WEL
		200	706		STEL (15 min)	WEL

**Biological Monitoring Guidance Values (EH40)**

CAS No	Substance	Parameter	Value	Test material	Sampling time
75-09-2	Dichloromethane	carbon monoxide	30 ppm	end-tidal breath	Post shift

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**DNEL/DMEL values**

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
75-09-2	Dichloromethane, methylene chloride		
Worker DNEL, long-term	inhalation	systemic	176 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	12 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	44 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	5,82 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,06 mg/kg bw/day

**PNEC values**

CAS No	Substance	
Environmental compartment	Value	
75-09-2	Dichloromethane, methylene chloride	
Freshwater	0,31 mg/l	
Freshwater (intermittent releases)	0,27 mg/l	
Marine water	0,031 mg/l	
Freshwater sediment	2,57 mg/kg	
Marine sediment	0,26 mg/kg	
Micro-organisms in sewage treatment plants (STP)	26 mg/l	
Soil	0,33 mg/kg	

**8.2. Exposure controls**

**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

**Individual protection measures, such as personal protective equipment**
**Eye/face protection**

Wear eye/face protection.

Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear suitable gloves.

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374

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derived from it.

Splash contact: Suitable material: FKM (fluoro rubber): Min.: 0,7 mm

**Skin protection**

Use of protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Environmental exposure controls**

 Do not empty into drains; dispose of this material and its container in a safe way.  
 Discharge into the environment must be avoided.

**SECTION 9: Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	colourless
Odour:	Chlorine
Odour threshold:	250 ppm

**Test method**
**Changes in the physical state**

Melting point/freezing point:	-97 °C °C
Boiling point or initial boiling point and boiling range:	40 °C
Sublimation point:	No data available
Softening point:	not determined
Pour point:	not determined
Flash point:	not applicable

**Flammability**

Solid/liquid:	not applicable
Gas:	not applicable

**Explosive properties**

 Explosion group: IIA  
 Maximum explosion pressure (P<sub>max</sub>): 5,9 bar  
 Minimum ignition energy (MIE): 9300 mJ  
 Source: CHEMpendium; Canadian Center for Occupational Health and Safety

Lower explosion limits:	13 vol. %
Upper explosion limits:	22 vol. %
Auto-ignition temperature:	605 °C DIN 51794

**Self-ignition temperature**

Solid:	No data available
Gas:	No data available
Decomposition temperature:	No data available

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pH-Value:	No data available
Viscosity / dynamic: (at 20 °C)	0,43 mPa·s
Viscosity / kinematic:	No data available
Flow time:	No data available
Water solubility: (at 20 °C)	20 g/L
<b>Solubility in other solvents</b> miscible with most organic solvents	
Dissolution rate:	not determined
Partition coefficient n-octanol/water:	log Pow: 1,25 (20 °C) Significant bioaccumulation potential is expected (log Pow > 3).
Dispersion stability:	No data available
Vapour pressure: (at 20 °C)	470 hPa
Vapour pressure: (at 50 °C)	584 hPa
Density:	1,33 g/cm <sup>3</sup>
Relative density:	2,93
Bulk density:	not applicable
Relative vapour density:	No data available

**9.2. Other information****Information with regard to physical hazard classes**

Sustaining combustion:	No data available
Oxidizing properties	
No data available	

**Other safety characteristics**

Solvent separation test:	No data available
Solvent content:	100,00 %
Evaporation rate:	No data available

**Further Information****SECTION 10: Stability and reactivity****10.1. Reactivity**

No data available

**10.2. Chemical stability**

Stable under recommended storage conditions.  
Contains as stabilizer(s): Amylene (20 - 60 ppm)

**10.3. Possibility of hazardous reactions**

Risk of explosion with:  
Alkali metals.  
Aluminium (Powder)  
Nitrogen oxides (NO<sub>x</sub>).  
Potassium.  
NaN<sub>3</sub>  
Nitric acid  
AlCl<sub>3</sub>



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 amines. (HNO<sub>3</sub>).  
 Oxygen (liquefied gas)

 Exothermic reaction with:  
 Alkaline earth metals.  
 Powdered metals

**10.4. Conditions to avoid**

Keep away from heat. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

**10.5. Incompatible materials**

 Oxidizing agents, strong.  
 Base. Acids  
 Rubber.  
 plastic  
 Light metals  
 metals  
 Steel

**10.6. Hazardous decomposition products**

 Thermal decomposition can lead to the escape of irritating gases and vapours.  
 In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Hydrogen chloride (HCl).  
 Phosgene

**Further information**

In case of fire: See chapter 5.

**SECTION 11: Toxicological information**
**11.1. Information on hazard classes as defined in GB CLP Regulation**
**Toxicokinetics, metabolism and distribution**

No data available

**Acute toxicity**

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
75-09-2	Dichloromethane, methylene chloride				
	oral	LD50 > 2000 mg/kg	Rat	Other company data (1988)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Other company data (1988)	OECD Guideline 402
	inhalation vapour	LC50 52000 mg/l	Rat		

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**Irritation and corrosivity**

Causes skin irritation.

Causes serious eye irritation.

Skin contact - Rabbit.

Result: Causes skin irritation. - 4 h

OECD 404

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

Eye contact - Rabbit.

Result: - Causes eye irritation.

Note: ECHA

Corneal opacity.

**Sensitising effects**

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

Respiratory or skin sensitisation

Local lymph node assay (LLNA) - Mouse.

Result: negative

OECD 429

**Carcinogenic/mutagenic/toxic effects for reproduction**

Suspected of causing cancer. (Dichloromethane, methylene chloride)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Germ cell mutagenicity:

Mutagenicity (mammalian cell test): Chromosomal aberrations mammalian cells

Chinese hamster ovary cells

Result: positive (with metabolic activation), positive (without metabolic activation)

OECD 473

Ames test

Salmonella typhimurium

Result: positive (with metabolic activation), positive (without metabolic activation)

OECD 471 (Ames test)

Carcinogenicity Suspected of causing cancer.

**STOT-single exposure**

May cause respiratory irritation. (Dichloromethane, methylene chloride)

May cause drowsiness or dizziness. (Dichloromethane, methylene chloride)

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure. (Dichloromethane, methylene chloride)

**Aspiration hazard**

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

**Information on likely routes of exposure**

Inhalation, The product is skin resorptive.

**Specific effects in experiment on an animal**

Rat: DNA damage

**Practical experience**

No data available

**11.2. Information on other hazards****Endocrine disrupting properties**

No data available

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**Other information**

Dichloromethane is metabolized in the body producing carbon monoxide which increases and sustains carboxyhemoglobin levels in the blood, reducing the oxygen - carrying capacity of the blood. Acts as a simple asphyxiant by displacing air, anesthetic effects, Difficulty in breathing, Headache, Dizziness, Prolonged or repeated contact with skin may cause: defatting, Dermatitis, Contact with eyes can cause: Redness, Blurred vision, Provokes tears., Effects due to ingestion may include:, Gastrointestinal discomfort, Central nervous system depression, Paresthesia, Drowsiness, Convulsions, Conjunctivitis, Pulmonary oedema. Effects may be delayed. Irregular breathing, Stomach/intestinal disorders, Nausea, Vomiting, Increased liver enzymes, Weakness. Heavy or prolonged skin exposure may result in the absorption of harmful amounts of material abdominal pain. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

General information halogenated hydrocarbons: Systemic effects: Anaesthetic state, Circulatory collapse, Liver and kidney damage.

**Further information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated. Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Special hazards arising from the substance or mixture!

RTECS: PA8050000

**SECTION 12: Ecological information**
**12.1. Toxicity**

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
75-09-2	Dichloromethane, methylene chloride					
	Acute fish toxicity	LC50 193 mg/l	96 h	Pimephales promelas	Bull Environ Contam Toxicol 20, 344-352	According to test methods described by t
	Acute crustacea toxicity	EC50 27 mg/l	48 h	Daphnia magna	Study report (1979)	According EPA publication
	Fish toxicity	NOEC 357 mg/l	8 d	Pimephales promelas	Publication (1987)	other: ASTM E729-80

**12.2. Persistence and degradability**

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
75-09-2	Dichloromethane, methylene chloride				
	OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F	< 26 %			
	Not readily biodegradable (according to OECD criteria)				

**12.3. Bioaccumulative potential**

Remarks: Does not bioaccumulate.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
75-09-2	Dichloromethane, methylene chloride	1,25

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**BCF**

CAS No	Chemical name	BCF	Species	Source
75-09-2	Dichloromethane, methylene chloride	39	Cyprinus carpio	Study report (1986)

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of UK REACH.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Dispose of waste according to applicable legislation.  
Consult the appropriate local waste disposal expert about waste disposal.

**Contaminated packaging**

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b>14.1. UN number or ID number:</b>	UN 1593
<b>14.2. UN proper shipping name:</b>	DICHLOROMETHANE
<b>14.3. Transport hazard class(es):</b>	6.1
<b>14.4. Packing group:</b>	III
Hazard label:	6.1



Classification code:	T1
Special Provisions:	516
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	2
Hazard No:	60
Tunnel restriction code:	E

**Inland waterways transport (ADN)**

<b>14.1. UN number or ID number:</b>	UN 1593
<b>14.2. UN proper shipping name:</b>	DICHLOROMETHANE
<b>14.3. Transport hazard class(es):</b>	6.1
<b>14.4. Packing group:</b>	III

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Hazard label: 6.1



Classification code: T1

Special Provisions: 516 802

Limited quantity: 5 L

Excepted quantity: E1

**Marine transport (IMDG)**
**14.1. UN number or ID number:** UN 1593

**14.2. UN proper shipping name:** DICHLOROMETHANE

**14.3. Transport hazard class(es):** 6.1

**14.4. Packing group:** III

Hazard label: 6.1



Special Provisions: -

Limited quantity: 5 L

Excepted quantity: E1

EmS: F-A, S-A

**Air transport (ICAO-TI/IATA-DGR)**
**14.1. UN number or ID number:** UN 1593

**14.2. UN proper shipping name:** DICHLOROMETHANE

**14.3. Transport hazard class(es):** 6.1

**14.4. Packing group:** III

Hazard label: 6.1



Limited quantity Passenger: 2 L

Passenger LQ: Y642

Excepted quantity: E1

IATA-packing instructions - Passenger: 655

IATA-max. quantity - Passenger: 60 L

IATA-packing instructions - Cargo: 663

IATA-max. quantity - Cargo: 220 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No data available

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 59, Entry 75

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2010/75/EU (VOC):	100 % (1330 g/l)
2004/42/EC (VOC):	100 % (1330 g/l)
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

**Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

**National regulatory information**

Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
Water hazard class (D):	2 - obviously hazardous to water

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information****Abbreviations and acronyms**

CLP: Classification, labelling and Packaging  
REACH: Registration, Evaluation and Authorization of Chemicals  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
UN: United Nations  
CAS: Chemical Abstracts Service  
DNEL: Derived No Effect Level  
DMEL: Derived Minimal Effect Level  
PNEC: Predicted No Effect Concentration  
ATE: Acute toxicity estimate  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Regulations concerning the international carriage of dangerous goods by rail  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)  
IMDG: International Maritime Code for Dangerous Goods  
EmS: Emergency Schedules  
MFAG: Medical First Aid Guide  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
VOC: Volatile Organic Compounds  
SVHC: Substance of Very High Concern  
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

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**Relevant H and EUH statements (number and full text)**

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.