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4. First aid measures

First aid measures

- Inhalation** : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Skin Contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention.
- Eye contact** : In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention immediately.
- Notes to physician** : Not available.
- Specific treatments** : Not available.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

- Extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO₂ extinguisher or spray.
- Special exposure hazards** : Combustible liquid and vapour. Vapour may cause flash fire. Vapours may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Not available.
- Hazardous thermal decomposition products** : These products are carbon oxides (CO, CO₂), sulphur oxides (SO₂, SO₃, etc.). Some metallic oxides.
- Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

- Personal Precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

- Handling** : Avoid contact with eyes. Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.
- Packaging materials**
- Recommended** : Use original container.
- Specific uses** : Not available.

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8. Exposure controls/personal protection

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
<u>United Kingdom (UK)</u> propan-2-ol	EH40-WEL (United Kingdom (UK), 1/2005). STEL: 1250 mg/m ³ 15 minute(s). Form: All forms STEL: 500 ppm 15 minute(s). Form: All forms TWA: 999 mg/m ³ 8 hour(s). Form: All forms TWA: 400 ppm 8 hour(s). Form: All forms

Exposure controls

Occupational exposure controls

: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection

: A respirator is not needed under normal and intended conditions of product use.

Hand protection

: Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
>8 hour(s) (breakthrough time): Butyl rubber gloves.

Eye protection

: splash goggles

Skin protection

: Work uniform or laboratory coat.

9. Physical and chemical properties

General information

Appearance

Physical state

: Liquid.

Colour

: Blue. (Light.)

Odour

: Perfume

Important health, safety and environmental information

pH

: 1.89 (Conc. (% w/w): 100) [Acidic.]

Melting point

: May start to solidify at 0°C (32°F) based on data for: Water. Weighted average: -3.08°C (26.5°F)

Boiling point

: The lowest known value is 82.5°C (180.5°F) (propan-2-ol). Weighted average: 99.39°C (210.9°F)

Flash point

: Closed cup: Between 61°C (142°F) and 93.3°C (200°F). (Pensky-Martens.)

Explosive properties

: Not available.

Oxidising properties

: Not available.

Relative density

: 1.0237 g/cm³ (20°C / 68°F)

Solubility

: Easily soluble in hot water, diethyl ether, acetone.
Soluble in cold water.

Viscosity

: Dynamic: The highest known value is 26 cP (2-hydroxy propionic acid)

Evaporation rate (butyl acetate = 1) : 1.7 (propan-2-ol) compared to Butyl acetate.

Other information

Auto-ignition temperature

: The lowest known value is 399°C (750.2°F) (propan-2-ol).

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10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to Avoid** : Stable under recommended storage and handling conditions (see section 7).
- Materials to avoid** : Reactive with alkalis.
- Hazardous Decomposition Products** : These products are carbon oxides (CO, CO₂), sulphur oxides (SO₂, SO₃, etc.). Some metallic oxides.

11. Toxicological information

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin Contact** : Irritating to skin.
- Eye contact** : Severely irritating to eyes.

Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
propan-2-ol	LD50	5045 mg/kg	Oral	Rat
	LD50	6410 mg/kg	Oral	Rabbit
	LD50	3600 mg/kg	Oral	Mouse
	LD50	12800 mg/kg	Dermal	Rabbit
	LD50	12800 mg/kg	Dermal	Rabbit
	LDLo	1537 mg/kg	Oral	Dog
	LDLo	3570 mg/kg	Oral	human
sulphuric acid, mono(2-ethylhexyl) ester, sodium salt	LDLo	5272 mg/kg	Oral	man
	LD50	3580 mg/kg	Oral	Rabbit
	LD50	650 mg/kg	Oral	Guinea pig
	LD50	1550 mg/kg	Oral	Mouse
quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, me sulfates (salts)	LDLo	1520 mg/kg	Dermal	Guinea pig
	LD50	>2000 mg/kg	Oral	Mouse

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin** : No known significant effects or critical hazards.
- Target organs** : Contains material which causes damage to the following organs: upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

- Other adverse effects** : Not available.

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12. Ecological information

Ecotoxicity data

Ingredient name

Ingredient name	Species	Period	Result
2-hydroxy propionic acid	Daphnia magna (EC50)	48 hour(s)	240 mg/l
	Daphnia magna (EC50)	48 hour(s)	750 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	130 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	130 mg/l
	Selenastrum capricornutum (LC50)	96 hour(s)	320 mg/l
propan-2-ol	Pimephales promelas (EC50)	48 hour(s)	10000 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	>1400 mg/l
	Pimephales promelas (LC50)	96 hour(s)	6550 mg/l
	Pimephales promelas (LC50)	96 hour(s)	9640 mg/l
	Pimephales promelas (LC50)	96 hour(s)	10400 mg/l
	Pimephales promelas (LC50)	96 hour(s)	11130 mg/l

No known significant effects or critical hazards.

Other adverse effects

13. Disposal considerations

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Waste classification



: Not applicable.

Hazardous waste

: The classification of the product may meet the criteria for a hazardous waste

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
ADR/RID Class	3265	UN 3265, 'dangerous goods in limited quantities of class 8", III, ADR (Sodium hydroxide)	8	III		<p>Hazard identification number 80</p> <p>Reportable quantity 12</p> <p>Remarks Keep in frostfree area Dangerous goods in limited quantities</p>
ADN Class	3265	UN 3265, 'dangerous goods in limited quantities of class 8", III, ADN (Sodium hydroxide)	8	III		<p>RQ (Reportable quantity) ADN 12</p> <p>Remarks Keep in frostfree area Dangerous goods in limited</p>

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						quantities
IMDG Class	3265	'dangerous goods in limited quantities of class 8" UN 3265, (Sodium hydroxide)	8	III		Emergency schedules (EmS) F-A, S-B Reportable quantity 30 Remarks Keep in frostfree area Dangerous goods in limited quantities
IATA-DGR Class	3265	'dangerous goods in limited quantities of class 8" UN 3265, (Sodium hydroxide)	8	III		Remarks Keep in frostfree area

15. Regulatory information

EU Regulations

Hazard symbol(s) :



Irritant

Risk Phrases :

R41- Risk of serious damage to eyes.

Safety Phrases :

S2- Keep out of the reach of children.

S25- Avoid contact with eyes.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39- Wear suitable gloves and eye/face protection.

S46- If swallowed, seek medical advice immediately and show this container or label.

S64- If swallowed, rinse mouth with water (only if the person is conscious).

Other EU regulations :

Not available.

Product use :

Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use.

- Consumer applications.

EC Statistical classification (Tariff Code) :

32089091

Ingredients identification information :

less than 5%: anionic surfactants; perfumes: Limonene.

16. Other information

Full text of R phrases referred to in sections 2 and 3 - United Kingdom (UK) :

R11- Highly flammable.

R36- Irritating to eyes.

R36/38- Irritating to eyes and skin.

R38- Irritating to skin.

R41- Risk of serious damage to eyes.

R67- Vapours may cause drowsiness and dizziness.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

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This safety data sheet is prepared in accordance with EU directive 91/155/EC amended by Directive 2001/58/EC



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Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK)

environment.
: F - Highly flammable
: Xi - Irritant
: N - Dangerous for the environment.

History

Date of printing : 29-11-2005.
Date of issue : 29-11-2005.
Version : 5.04
Verified by T. Rutgers.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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