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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 copiously with water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention immediately.
- 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** : Use an extinguishing agent suitable for surrounding fires.
- Special exposure hazards** : No specific hazard.
Not available.
- 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, skin and clothing. 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

Ingredient name

Occupational exposure limits

United Kingdom (UK)

Sodium hydroxide

EH40-OES (United Kingdom (UK), 2002). Notes:
STEL: 2 mg/m³ 15 minute(s).

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.

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

: Colourless.

Odour

: Characteristic.

Important health, safety and environmental information

pH

: 13.8 (Conc. (% w/w): 100) [Basic.]

Melting point

: May start to solidify at 318°C (604.4°F) based on data for: Sodium hydroxide. Weighted average: -3.62°C (25.5°F)

Boiling point

: The lowest known value is 100°C (212°F) (Water). Weighted average: 134.37°C (273.9°F)

Flash point

: Not applicable.

Flammability (solid, gas)

: Not applicable.

Explosive properties

: Not available.

Oxidising properties

: Not available.

Relative density

: 1.047 g/cm³ (20°C / 68°F)

Solubility

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

Evaporation rate (butyl acetate = 1) : 0.003 (2-(2-Butoxyethoxy)ethanol) compared to Butyl acetate.

Other information

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 acids.

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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** : Irritating to eyes.

Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
2-(2-Butoxyethoxy)ethanol	LD50	5660 mg/kg	Oral	Rat
	LD50	2200 mg/kg	Oral	Rabbit
	LD50	2400 mg/kg	Oral	Mouse
	LD50	2700 mg/kg	Dermal	Rabbit
Fatalcoholethoxylate	LD50	200 to 2000 mg/kg	Oral	Rat
diphosphoric acid, tetrapotassium salt	LD50	>2000 mg/kg	Oral	Rat
	LD50	>4640 mg/kg	Dermal	Rabbit
Sodium hydroxide	LDLo	4640 mg/kg	Oral	Rat
	LDLo	500 mg/kg	Oral	Rabbit

- 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: lungs, upper respiratory tract, skin, eye, lens or cornea.

- Other adverse effects** : Not available.

12. Ecological information

Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
2-(2-Butoxyethoxy)ethanol	Lepomis macrochirus (LC50)	96 hour(s)	1300 mg/l
	Flora. (EC50)	72 hour(s)	1 to 10 mg/l
	LEUCISCUS IDUS (LC50)	96 hour(s)	1 to 10 mg/l
	Aquatic Invertebrates. (LC50)	48 hour(s)	1 to 10 mg/l
diphosphoric acid, tetrapotassium salt	Fish (LC50)	48 hour(s)	>750 mg/l

No known significant effects or critical hazards.

Other adverse effects

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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	Not regulated.	-	-	-		-
ADN Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

15. Regulatory information

EU Regulations

Hazard symbol(s) :



Irritant

Risk Phrases :

R36/38- Irritating to eyes and skin.

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.
 S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 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%: non-ionic surfactants, phosphates, anionic surfactants.

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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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16. Other information

Full text of R phrases referred to in sections 2 and 3 - United Kingdom (UK) : R22- Harmful if swallowed.
R35- Causes severe burns.
R36- Irritating to eyes.
R36/38- Irritating to eyes and skin.
R41- Risk of serious damage to eyes.

Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK) : C - Corrosive
Xn - Harmful
Xi - Irritant

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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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