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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. Get 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 for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- Eye contact** : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get 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.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials: carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), sulfur oxides (SO₂, SO₃...), phosphates. 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 facepiece 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** : Ensure that eyewash stations and safety showers are proximal to the work-station location.
- Respiratory protection** : A respirator is not needed under normal and intended conditions of product use.
- Hand protection** : Butyl rubber gloves. (Permeation time >= 4 hours):
- Eye protection** : splash goggles
- Skin protection** : Work uniform or laboratory coat.

9. Physical and chemical properties

General information

Appearance

Physical state

Color

Odor

- : Liquid.
- : Clear Yellow.
- : Characteristic.

Important health, safety and environmental information

pH

Melting point

Boiling point

Flash point

Explosive properties

Oxidizing properties

Relative density

Solubility

Viscosity

- : 13.5 (Conc. (% w/w): 100) [Basic.]
- : May start to solidify at the following temperature: 318°C (604.4°F) This is based on data for the following ingredient: Sodium hydroxide. Weighted average: 3.73°C (38.7°F)
- : Lowest known value: 100°C (212°F) (Water). Weighted average: 115.59°C (240.1°F)
- : Lowest known value: Closed cup: >100°C (212°F). (alcohols, c11-14-iso-, c13-rich, ethoxylated)
- : Not available.
- : Not available.
- : 1.085 g/cm³ (20°C / 68°F)
- : Easily soluble in the following materials: cold water, hot water.
Insoluble in the following materials: methanol, diethyl ether, n-octanol, acetone.
- : Dynamic: Highest known value: 157 cP (alcohols, c11-14-iso-, c13-rich, ethoxylated)

Other information

Auto-ignition temperature

- : Lowest known value: >200°C (392°F) (alcohols, c11-14-iso-, c13-rich, ethoxylated).

10. Stability and reactivity

Stability

Conditions to avoid

Materials to avoid

Hazardous decomposition products

- : The product is stable.
- : Stable under recommended storage and handling conditions (see section 7).
- : Reactive with acids.
- : Decomposition products may include the following materials: carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), sulfur oxides (SO₂, SO₃...), phosphates. Some metallic oxides.

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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>
Sodium carbonate	LD50	4090 mg/kg	Oral	Rat
	LD50	6600 mg/kg	Oral	Mouse
	LDLo	714 mg/kg	Oral	man
alcohols, c11-14-iso-, c13-rich, ethoxylated	LD50	200 to 2000 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>
Sodium carbonate	LEPOMIS MACROCHIRUS (LC50)	96 hour(s)	300 mg/l
	DAPHNIA MAGNA (LC50)	96 hour(s)	500 mg/l
	DAPHNIA MAGNA (LC50)	24 hour(s)	265 mg/l
alcohols, c11-14-iso-, c13-rich, ethoxylated	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

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.

: Not available.

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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.
 S37- Wear suitable gloves.
 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 : non-ionic surfactants, anionic surfactants, NTA (nitrilotriacetic acid) and salts thereof, phosphonates

Product use : Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.
 - Consumer applications.

EC Statistical classification (Tariff Code) : 32089091

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.
 R36/37/38- Irritating to eyes, respiratory system and skin.
 R36/38- Irritating to eyes and skin.
 R41- Risk of serious damage to eyes.

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This safety data sheet is prepared in accordance with EU
directive 1907/2006



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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 P. Stienstra.

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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