

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke -+

GROTANOL SR 1

No Change Service!

Version 03.00

Revision Date 17.02.2008

Print Date 17.02.2008

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : GROTANOL SR 1
Producer/Supplier : Schülke & Mayr GmbH
Robert-Koch-Str. 2
22851 Norderstedt
Germany
Telephone: +4940521000
Telefax: +494052100318
mail@schuelke.com
www.schuelke.com

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sai-at@schuelke.com

Emergency telephone : +49 (0)40 / 52 100 -0

Application : Cleaning agent

2. HAZARDS IDENTIFICATION

Risk advice to man and the environment

ICAO-Labels / Indication of danger:

C Corrosive
R34 Causes burns.
R43 May cause sensitization by skin contact.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Preparation
Aqueous solution

Components	CAS-No.	EC-No.	Symbol	R-phrase(s)	Concentration
alpha,alpha',alpha"-Trimethyl-1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol	25254-50-6	246-764-0	Xn	R22, R36/38, R43, R52	8 - < 10 %
Sodium hydroxide	1310-73-2	215-185-5	C	R35	4,5 %
Pyridine-2-thiol-1-oxide, Sodium salt	3811-73-2	223-296-5	Xn, N	R20/21/22, R36/38, R50	< 1 %

For the full text of the R-phrases mentioned in this Section, see Section 16.

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4. FIRST AID MEASURES

- General advice : Take off all contaminated clothing immediately.
Eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin contact : Wash off immediately with plenty of water.
Inhalation : If symptoms persist, call a physician.
Ingestion : Do NOT induce vomiting. Rinse mouth with water. Give small amounts of water to drink. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water, Dry powder, Foam, Carbon dioxide (CO₂)
Extinguishing media which shall not be used for safety reasons : No information available.
Specific risk from the substance or the product itself, its combustion products or evolved gases : Decomposition products, see chapter 10

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Use personal protective equipment.
Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.
Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece). Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

Handling

- Safe handling advice : Use only in well-ventilated areas. Handle and open container with care.
Advice on protection against fire and explosion : No special protective measures against fire required.

Storage

- Requirements for storage areas and containers : Store in original container.
Further information : Keep away from heat. Keep away from direct sunlight. Keep container tightly closed. Limited stability - see label on pack
Advice on common storage : Keep away from food and drink. Do not store near acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value	Basis
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Pyridine-2-thiol-1-oxide, Sodium salt	3811-73-2	AGW: 1 mg/m ³	TRGS 900
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Personal protective equipment

- Hand protection : Impervious gloves
Splash protection: disposable nitrile rubber gloves e.g. Dermatril (Layer thickness: 0,11 mm) made by KCL or gloves from other manufacturers offering the same protection.
Prolonged contact: Butyl rubber gloves e.g. Butoject (>480 Min., Layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protection.
- Eye protection : Tightly fitting safety goggles
- Hygiene measures : Take off all contaminated clothing immediately.
- Protective measures : Avoid contact with skin and eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- Form : Liquid
- Colour : light yellow - yellow
- Odour : odourless

Other data

- Initial boiling point : ca. 100 °C
- Flash point : >100 °C
Method: ISO 2719
- Vapour pressure : ca.20 hPa at 20 °C
- Density : 1,063 - 1,083 g/ml at 20 °C
- Water solubility : at 20 °C
in all proportions
- pH : ca.12 at 10 g/l (20 °C)
- flow time : <15 s at 20 °C
Method: DIN 53211

10. STABILITY AND REACTIVITY

- Hazardous reactions : reaction with acids.
- Hazardous decomposition products : Possible splitting of small amounts of formaldehyde.

11. TOXICOLOGICAL INFORMATION

- Further information : The classification was made according to the calculation

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procedure of the Preparations Directive.

12. ECOLOGICAL INFORMATION

- Biodegradability : biodegradable
- Chemical Oxygen Demand (COD) : 4170 mg/l
Test substance: 1% solution
- Further information : The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

13. DISPOSAL CONSIDERATIONS

- Product : Dispose of as special waste in compliance with local and national regulations. Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.
- Contaminated packaging : Empty containers should be transported/delivered using a registered waste carrier for local recycling or waste disposal.
- Waste key for the unused product(Group) : The waste producer itself must, in consultation with the appropriate authorities and a waste disposal company, obtain a waste code from the EWC (European Waste Catalogue),

14. TRANSPORT INFORMATION

ADR : UN-Number 1824



Class 8
Classification Code C5
Packaging group II
ADR/RID-Labels 8 + 11
ICAO-Labels 80
Description of the goods

SODIUM HYDROXIDE, SOLUTION

IMDG : UN-Number 1824



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IATA	Class	8	SODIUM HYDROXIDE SOLUTION
	EmS	F-A, S-B	
	Packaging group	II	
	Marine pollutant	--	
	Description of the goods		
: UN-Number	1824		
Class	8		
Packaging group	II		
Description of the goods		Sodium hydroxide, solution	

15. REGULATORY INFORMATION

Hazardous components:

- Sodium hydroxide
- alpha,alpha',alpha"-Trimethyl-1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol

Symbol	:	
		C Corrosive
R-phrase(s)	:	R34 Causes burns. R43 May cause sensitization by skin contact.
S-phrase(s)	:	S24 Avoid contact with skin. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S35 This material and its container must be disposed of in a safe way. S37/39 Wear suitable gloves and eye/face protection. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Special labelling of certain preparations	:	Use biocides safely. Always read the label and product information before use.

National legislation

Legislation on the control of major-accident hazards involving dangerous substances : Directive 96/82/EC does not apply

VOC-Content : none, Directive 2004/42/EC

VOC-Content : none, Switzerland. VOC Ordinance, Annex II (Products)

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Status16. OTHER INFORMATION

Application : Information on uses can be found in a separate preparation / product brochure.

Text of R-phrases mentioned in Section 3

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R22	Harmful if swallowed.
R35	Causes severe burns.
R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R50	Very toxic to aquatic organisms.
R52	Harmful to aquatic organisms.

The information given is only of use for possible safety requirements and is based on our actual knowledge. This information does not guarantee any properties. It is the responsibility of the receiver / user of our products to follow existing laws and regulations.

|| Changes compared with the previous edition!!!