

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**schülke** -+

## GROTAN FORTE

No Change Service!

Version 02.00

Revision Date 19.02.2008

Print Date 19.02.2008

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

#### Product information

Trade name : GROTAN FORTE  
Producer/Supplier : Schülke & Mayr GmbH  
Robert-Koch-Str. 2  
22851 Norderstedt  
Germany  
Telephone: +4940521000  
Telefax: +494052100318  
mail@schuelke.com  
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Contact person : SAI/AT +49 40 52100 528 or S&M UK +44 114 254 3500  
sai-at@schuelke.com

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

Application : Preservative

### 2. HAZARDS IDENTIFICATION

#### Risk advice to man and the environment

ICAO-Labels / Indication of danger:

Xn Harmful  
R22 Harmful if swallowed.  
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
2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	4719-04-4	225-208-0	Xn	R22, R43	70 - 90 %
Pyridine-2-thiol-1-oxide, Sodium salt	3811-73-2	223-296-5	Xn, N	R20/21/22, R36/38, R50	1 - 2 %

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

### 4. FIRST AID MEASURES

General advice : Take off all contaminated clothing immediately.

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- 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 : Obtain medical attention.

### 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water, Dry powder, Foam, Carbon dioxide (CO<sub>2</sub>)
- 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 : The product is not flammable.

#### 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.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value	Basis
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Formaldehyde	50-00-0	MAK: 0,37 mg/m <sup>3</sup> MAK: 0,3 ppm	MAK
Formaldehyde	50-00-0	TLV: 0,3 ppm	ACGIH
Pyridine-2-thiol-1-oxide, Sodium salt	3811-73-2	AGW: 1 mg/m <sup>3</sup>	TRGS 900

Hazardous decomposition products

### **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 : Safety glasses
- 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 - pale red-brown
- Odour : amine-like

### **Other data**

- Initial boiling point : > 100 °C
- Flash point : >100 °C  
Method: ISO 2719
- Vapour pressure : ca.25 hPa at 20 °C
- Density : 1,148 - 1,160 g/ml at 20 °C
- Water solubility : at 20 °C  
in all proportions
- pH : ca.10 at 1 g/l ( 20 °C)
- flow time : 50 - 80 s at 20 °C  
Method: DIN 53211

## **10. STABILITY AND REACTIVITY**

- Hazardous reactions : reaction with acids.

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Hazardous decomposition : formaldehyde products

### **11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity : LD50 rat 2800 mg/kg

Skin irritation : No skin irritation  
Test substance: 0,4% solution

### **12. ECOLOGICAL INFORMATION**

Biodegradability : biodegradable

Chemical Oxygen Demand (COD) : 11505 mg/l  
Test substance: 1% solution

AOX : Remarks: Product does not contain any organic halogens.

### **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**

Further information : Not classified as dangerous in the meaning of transport regulations.

### **15. REGULATORY INFORMATION**

Hazardous components:


- 2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol

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Symbol	:		
		Xn Harmful	
R-phrase(s)	:	R22 R43	Harmful if swallowed. May cause sensitization by skin contact.
S-phrase(s)	:	S24 S35  S37	Avoid contact with skin. This material and its container must be disposed of in a safe way. Wear suitable gloves.
Special labelling of certain preparations	:	Use biocides safely. Always read the label and product information before use.	
<b>National legislation</b>			
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)	
Switzerland	:	Registration number: CHZB0286	

**16. 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.
R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R50	Very toxic 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!!!