

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

GROTANAT flüssig

No Change Service!

Version 03.00

Revision Date 13.01.2010

Print Date 23.08.2010

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

Product information

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

Contact person : Application Department
+49 (0)40/ 521 00 544 (S&M UK +44 114 254 3500)
pab@schuelke.com

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

Application : Cleaning agent, Disinfectants, Biocidal product type: 2, Only for professional use in industry and commerce.

2. HAZARDS IDENTIFICATION

Risk advice to man and the environment

ICAO-Labels / Indication of danger:

Xn Harmful
N Dangerous for the environment
R21/22 Harmful in contact with skin and if swallowed.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R43 May cause sensitization by skin contact.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : (Preparation)
Solution of the following substances with harmless additives.

Components	CAS-No.	EC-No.	Symbol	R-phrase(s)	Concentration
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Chlorocresol	59-50-7	200-431-6	Xn, N	R21/22, R41, R43, R50	8 %
Clorofene	120-32-1	204-385-8	N, Xi	R38, R41, R43, R50/53	5 %
Biphenyl-2-ol	90-43-7	201-993-5	Xi, N	R36/37/38, R50	3 %
Alkyl(C13)-sec-sulfonate	68188-18-1	269-144-1	Xi	R36/38	15 - 30 %
Tetrasodium EDTA	64-02-8	200-573-9	Xn	R22, R36	< 5 %
1-Hydroxyethanephosphonic acid	2809-21-4		Xi	R41	< 5 %
Potassium hydroxide	1310-58-3	215-181-3	C	R22, R35	< 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.
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.
Ingestion : Obtain medical attention.

5. FIRE-FIGHTING MEASURES

- Special protective equipment for fire-fighters : No special precautions required.
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 : No special risks to be expected.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Increased risk of slipping in the presence of leaked / spilled product.
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 : Prepare the working solution as given on the label(s) and/or the user instructions.
- Advice on protection against fire and explosion : No special protective measures against fire required.

Storage

- Requirements for storage areas and containers : Store at room temperature in the original container.
- Further information : Keep away from heat. Keep away from direct sunlight. Keep container tightly closed.
- Advice on common storage : Keep away from food and drink.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

none

Personal protective equipment

- Hand protection : 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: Nitrile rubber gloves e.g. Camatril (>480 Min., Layer thickness: 0,40 mm) or 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 : Keep away from food and drink.
- Protective measures : Avoid contact with skin and eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- Form : liquid
- Colour : brown
- Odour : characteristic

Other data

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solidification range	:	< -5 °C
Initial boiling point	:	ca. 100 °C
Flash point	:	> 100 °C Method: ISO 2719
Vapour pressure	:	ca.21 hPa at 20 °C
Density	:	ca.1,17 g/cm ³ at 20 °C
Water solubility	:	at 20 °C in all proportions
pH	:	ca.10,5 at 20 g/l (20 °C)
flow time	:	ca.15 s at 20 °C Method: DIN 53211

10. STABILITY AND REACTIVITY

Hazardous reactions	:	None reasonably foreseeable.
Hazardous decomposition products	:	None reasonably foreseeable.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	LD50 rat ca. 4500 mg/kg
Further information	:	The classification was made according to the calculation procedure of the Preparations Directive.

12. ECOLOGICAL INFORMATION

Chemical Oxygen Demand (COD)	:	8500 mg/l Test substance: 1% solution
Further information	:	The surfactant(s) contained in this mixture 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. Avoid subsoil penetration.

13. DISPOSAL CONSIDERATIONS

Product	:	Dispose of the product according to the defined EWC
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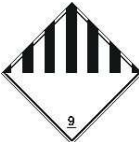



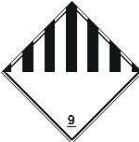

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(European Waste Code) No.

- Contaminated packaging : Take empty packaging to the recycling plant.
- Waste key for the unused product : EWC 070601
- Waste key for the unused product(Group) : Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

14. TRANSPORT INFORMATION

ADR	: UN-Number	3082		
	Class	9		
	Classification Code	M6		
	Packaging group	III		
	ADR/RID-Labels	9 + N		
	ICAO-Labels	90		
	Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Clorofene)		
IMDG	: UN-Number	3082		
	Class	9		
	EmS	F-A, S-F		
	Packaging group	III		
	Marine pollutant	Marine pollutant		
	Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Clorofene)		
IATA	: UN-Number	3082		
	Class	9		
	Packaging group	III		
	Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Clorofene)		

15. REGULATORY INFORMATION

Hazardous components:

- Chlorocresol

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General advice	:	In the EU, this product falls under the Directive medical devices 93/42/EEC. The product is classified and labelled in accordance with EC directives or respective national laws.	
Symbol	:		
		Xn Harmful	N Dangerous for the environment
R-phrase(s)	:	R21/22 R38 R41 R43 R50/53	Harmful in contact with skin and if swallowed. Irritating to skin. Risk of serious damage to eyes. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	:	S26 S36/37/39 S61	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. Avoid release to the environment. Refer to special instructions/ Safety data sheets.
Special labelling of certain mixtures	:	Labelling according to Regulation (EC) No. 648/2004:; 15 - 30% anionic surfactants, < 5 % phosphonates, < 5 % EDTA and salts thereof, perfumes, CITRONELLOL	

National legislation

Legislation on the control of major-accident hazards involving dangerous substances	:	The product belongs to at least one of the categories 1 through 11 mentioned in Annex 1 of the Directive 1996/82/EC concerning the control of major accident hazards.
Volatile organic compounds (VOC) content	:	none, Directive 1999/13/EC on the limitation of emissions of volatile organic compounds
VOC-Content	:	none, Switzerland. VOC Ordinance, Annex II (Products)

Switzerland : Registration number: CHZB0344

16. OTHER INFORMATION

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

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Text of R-phrases mentioned in Section 3

R21/22	Harmful in contact with skin and if swallowed.
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.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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!!!