according to Regulation (EC) No. 1907/2006



# grotamar® 82

Version 04.00 Revision Date 09.05.2014 Print Date 09.10.2014

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

: grotamar® 82 Trade name

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-: Preservative

stance/Mixture

#### 1.3 Details of the supplier of the safety data sheet

Producer/Supplier : Schülke & Mayr GmbH

> Robert-Koch-Str. 2 22851 Norderstedt

Germany

Telephone: +4940521000 Telefax: +494052100318 mail@schuelke.com www.schuelke.com

: SAI/AT +49 40 52100 100 or S&M UK +44 114 254 3500 Contact person

sai-at@schuelke.com

### 1.4 Emergency telephone number

Emergency telephone num-

: UK Poisons Emergency number: 0870 600 6266

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

ber

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters air-

Skin corrosion, Category 1C H314: Causes severe skin burns and eye damage. Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting ef-

fects.

#### Classification (67/548/EEC, 1999/45/EC)

Corrosive R34: Causes burns.

Harmful R65: Harmful: may cause lung damage if swal-

R66: Repeated exposure may cause skin dryness

or cracking.

### 2.2 Label elements

Labelling

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Hazard pictograms





Signal word : Danger

Hazard statements : H304 May be fatal if swallowed and enters air-

ways.

H314 Causes severe skin burns and eye damage. H412 Harmful to aquatic life with long lasting ef-

fects.

Supplemental Hazard : EUH066 Repeated exposure may cause skin dry-

Statements ness or cracking.

Precautionary statements : P260 Do not breathe vapours.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/ Take off

immediately all contaminated clothing.

Rinse skin with water/ shower.

P304+P340 IF INHALED: Remove victim to fresh air

and keep at rest in a position comfortable

for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or

doctor/ physician.

#### **Additional Labelling:**

EUH208 Contains N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine. May produce

an allergic reaction.

Hazardous components which must be listed on the label:

66204-44-2 3,3'-methylenebis[5-methyloxazolidine] 67774-74-7 Benzene, C10-13-alkyl derivatives

Special labelling of certain

mixtures

: Contains N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine. May produce an allergic reaction. Use biocides safely. Always

read the label and product information before use.

### 2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). No special risks known.

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

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Chemical nature : Mixture

### **Hazardous components**

Chemical Name	Index-Number CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
3,3'-methylenebis[5-methyloxazolidine]	66204-44-2 266-235-8	Xn; R20/22 C; R34 R52	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1C; H314	18 - 22 %
Benzene, C10-13-alkyl derivatives	67774-74-7 267-051-0 01- 2119489372- 31-XXXX	Xn; R65 R66	Asp. Tox. 1; H304	70 - 85 %
N,N-Bis(2-ethylhexyl)- ((1,2,4-triazol-1- yl)methyl)amine	613-072-00-9 91273-04-0 401-280-0	C; R34 Xi; R43 N; R51/53	Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 2; H411	<= 1 %
2,6-Di-tert-Butylphenol	128-39-2 204-884-0	Xi; R38 N; R50/53	Skin Irrit. 2; H315 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	<= 1 %

For explanation of abbreviations see section 16.

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice : Take off all contaminated clothing immediately.

If inhaled : Remove person to fresh air. If signs/symptoms continue, get

medical attention.

In case of skin contact : Wash off immediately with plenty of water.

In case of eye contact : In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

If swallowed : Do NOT induce vomiting. Rinse mouth with water. Give small

amounts of water to drink. Obtain medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : No information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

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### **SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing media : Dry powder, Foam, Carbon dioxide (CO2), Water

Unsuitable extinguishing

media

: No information available.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: No information available.

Specific risk from the substance or the product itself, its combustion products or

evolved gases

: Decomposition products, see chapter 10

5.3 Advice for firefighters

Further information : Standard procedure for chemical fires.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation. Use personal protective equip-

ment.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

6.3 Methods and material for containment and cleaning up

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).

6.4 Reference to other sections

see Section 8 + 13

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advice on safe handling : 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.

Hygiene measures : Take off all contaminated clothing immediately.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Store at room temperature in the original container.

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Further information on stor-

age conditions

: Limited stability - see label on pack.

Advice on common storage : Keep away from food and drink.

7.3 Specific end use(s)

Specific use(s) : none

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Formaldehyde	50-00-0	WEL	2 ppm 2,5 mg/m3	HSE
Formaldehyde	50-00-0	WEL	2 ppm 2,5 mg/m3	HSE

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

tives

Benzene, C10-13-alkyl deriva- : End Use: Workers, Exposure routes: Skin contact, Potential health effects: Systemic effects, Long-term exposure, Value: 9,6

End Use: Workers, Exposure routes: Inhalation, Potential health effects: Systemic effects, Long-term exposure, Value: 7 mg/m3 End Use: Workers, Exposure routes: Inhalation, Potential health effects: Local effects, Long-term exposure, Value: 7 mg/m3 End Use: Consumers, Exposure routes: Skin contact, Potential health effects: Systemic effects, Long-term exposure, Value: 4,8

End Use: Consumers, Exposure routes: Inhalation, Potential health effects: Systemic effects, Long-term exposure, Value: 1,8

End Use: Consumers, Exposure routes: Ingestion, Potential health effects: Systemic effects, Long-term exposure, Value: 0,5

ma/ka

End Use: Consumers, Exposure routes: Inhalation, Potential health effects: Local effects, Long-term exposure, Value: 1,8

mg/m3

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Benzene, C10-13-alkyl deriva-

tives

: Fresh water, Value: 0.000075 mg/l

Marine water, Value: 0,0075 µg/l

Fresh water sediment, Value: 0,143 mg/kg Marine sediment, Value: 0,143 mg/kg

#### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Tightly fitting safety goggles

: Impervious gloves Splash protection: disposable nitrile rubber Hand protection

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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.

: Avoid contact with skin and eyes.

### **Environmental exposure controls**

Protective measures

General advice : Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Appearance : Liquid

Colour : colourless - light yellow

Odour : amine-like

Flash point :  $> 100 \, ^{\circ}\text{C}$ , ISO 2719

boiling temperature : > 200 °C, Directive 92/69/EEC, A.2

Density : 0,884 - 0,895 g/cm3, 20 °C, Directive 92/69/EEC, A.3

Flow time : < 15 s at 20 °C, DIN 53211

#### 9.2 Other information

No data available

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

No decomposition if stored normally.

#### 10.3 Possibility of hazardous reactions

reaction with acids

#### 10.4 Conditions to avoid

Protect from frost, heat and sunlight.

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

formaldehyde

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### **Acute toxicity**

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#### Components:

#### 3,3'-methylenebis[5-methyloxazolidine]:

Acute oral toxicity : LD50: 900 mg/kg, rat

Acute inhalation toxicity : LC50: 2 mg/l, 4 h, rat, dust/mist, OECD Test Guideline 436,

GLP: yes

Acute dermal toxicity : LD50: 1207 - 1620 mg/kg, rat, OECD Test Guideline 402, not

applicable, corrosive substance. According Guidline OECD

402 a non-corrosive concentration has to be tested

Benzene, C10-13-alkyl derivatives:

Acute oral toxicity : LD50: > 2000 mg/kg, rat

Acute dermal toxicity : LD50: > 2000 mg/kg, rat, OECD Test Guideline 402

N,N-Bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine:

Acute oral toxicity : LD50 Oral: > 2000 mg/kg, rat, OECD Test Guideline 401

2,6-Di-tert-Butylphenol:

Acute oral toxicity : LD50 Oral: > 5000 mg/kg, rat Acute dermal toxicity : LD50: > 10000 mg/kg, rabbit

#### Skin corrosion/irritation

#### **Components:**

#### 3,3'-methylenebis[5-methyloxazolidine]:

Severe skin irritation, rabbit, concentrate

### Benzene, C10-13-alkyl derivatives:

Moderate irritant, rabbit, Based on available data, the classification criteria are not met.

#### Serious eye damage/eye irritation

#### **Components:**

### 3,3'-methylenebis[5-methyloxazolidine]:

Risk of serious damage to eyes., rabbit, concentrate

### Benzene, C10-13-alkyl derivatives:

No eve irritation, rabbit

### Respiratory or skin sensitisation

#### **Components:**

#### 3,3'-methylenebis[5-methyloxazolidine]:

Did not cause sensitisation on laboratory animals. guinea pig, OECD Test Guideline 406

#### Benzene, C10-13-alkyl derivatives:

Did not cause sensitisation on laboratory animals. Maximisation Test (GPMT), guinea pig, OECD

Test Guideline 406

## Germ cell mutagenicity

#### **Components:**

### 3,3'-methylenebis[5-methyloxazolidine]:

Genotoxicity in vitro : Not mutagenic in Ames Test. OECD 471

Genotoxicity in vivo : Did not show mutagenic effects in animal experiments., Muta-

genicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), mouse, OECD Test Guideline, 475

### Benzene, C10-13-alkyl derivatives:

Genotoxicity in vitro : Did not show mutagenic effects in animal experiments.

### Carcinogenicity

No data available

#### Reproductive toxicity

### Components: Z11196 ZSDB P GB EN

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#### Benzene, C10-13-alkyl derivatives:

Effects on fertility : rat, Oral, NOAEL: 50 mg/kg, F1: 50 mg/kg, F2: 50 mg/kg,

OECD Test Guideline 416. Based on available data, the clas-

sification criteria are not met.

: rat. Oral, NOAEL: 125 mg/kg, Based on available data, the Effects on foetal develop-

classification criteria are not met.

#### STOT - single exposure

No data available

#### STOT - repeated exposure

No data available

#### Repeated dose toxicity

#### **Components:**

#### 3,3'-methylenebis[5-methyloxazolidine]:

rat: NOAEL: 72 mg/kg, Repeated dose (90 days) toxicity (oral), OECD Test Guideline, 408

#### Benzene, C10-13-alkyl derivatives:

rat: LOAEL: 125 mg/kg, Oral, Exposure time: 28 d, OECD Test Guideline 407

### **Aspiration toxicity**

#### Components:

### Benzene, C10-13-alkyl derivatives:

May be fatal if swallowed and enters airways.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

### **Components:**

#### 3,3'-methylenebis[5-methyloxazolidine]:

Toxicity to fish : LC50 (Brachidanio rerio): 57,7 mg/l Toxicity to daphnia and other : EC50 (Daphnia magna): 37,9 mg/l, 48 h

aquatic invertebrates

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 5,7 mg/l,

72 h

Toxicity to bacteria : EC50: 44 mg/l, OECD 209

### Benzene, C10-13-alkyl derivatives:

Toxicity to fish : 14 h, semi-static test, Aquatic toxicity is unlikely due to low

solubility.

Toxicity to daphnia and other

aquatic invertebrates

: 48 h, Aquatic toxicity is unlikely due to low solubility.

: NOEC (Daphnia magna (Water flea)): 21 d, semi-static test, OECD Test Guideline 211, No toxicity at the limit of solubility

Toxicity to algae 72 h, Aquatic toxicity is unlikely due to low solubility.

Toxicity to daphnia and other

aquatic invertebrates (Chron-

: NOEC (Daphnia magna (Water flea)): 21 d, No toxicity at the

limit of solubility

ic toxicity) 2,6-Di-tert-Butylphenol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 13 mg/l, 96 h Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 0,45 mg/l, 48 h

aquatic invertebrates

#### 12.2 Persistence and degradability

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**Product** 

Physico-chemical removabil- : The product is slightly soluble in water. It can be eliminated

y from water by abiotic processes.

**Components:** 

3,3'-methylenebis[5-methyloxazolidine]:

Biodegradability : biodegradable OECD 301D / EEC 84/449 C6

Benzene, C10-13-alkyl derivatives:

Biodegradability : Readily biodegradable. > 60 o/o, 28 d, OECD Test Guideline

301F

2,6-Di-tert-Butylphenol:

Biodegradability : Not readily biodegradable. < 50 o/o, 5 d

12.3 Bioaccumulative potential

**Components:** 

3,3'-methylenebis[5-methyloxazolidine]:

Partition coefficient: n- : log Pow: -0,3

octanol/water

Benzene, C10-13-alkyl derivatives:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish), 96 d, 0,092

mg/l, Bioconcentration factor (BCF): 35

Partition coefficient: n- : log Pow: > 5,0

octanol/water

2,6-Di-tert-Butylphenol:

Partition coefficient: n- : log Pow: 4,5

octanol/water

12.4 Mobility in soil

**Product** 

Mobility : No data available

12.5 Results of PBT and vPvB assessment

<u>Product</u>

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Other adverse effects

**Product** 

Adsorbed organic bound

halogens (AOX)

: Product does not contain any organic halogens.

**SECTION 13: Disposal considerations** 

13.1 Waste treatment methods

Product : Dispose of as special waste in compliance with local and na-

tional 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 taken to an approved waste han-

dling site for recycling or disposal.

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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).

### **SECTION 14: Transport information**

#### 14.1 UN number

 ADR
 : UN 3267

 IMDG
 : UN 3267

 IATA
 : UN 3267

#### 14.2 UN proper shipping name

**ADR** : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

(3,3'-methylenebis[5-methyloxazolidine])

**IMDG** : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

(3,3'-methylenebis[5-methyloxazolidine])

IATA : Corrosive liquid, basic, organic, n.o.s.

(3,3'-methylenebis[5-methyloxazolidine])

#### 14.3 Transport hazard class(es)

ADR : 8
IMDG : 8
IATA : 8

### 14.4 Packing group

### ADR

Packing group : III
Classification Code : C7
Labels : 8
Tunnel restriction code : E

#### **IMDG**

Packing group : III Labels : 8

EmS Code : F-A, S-B

### IATA

Packing group : III Labels : 8

#### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : no

**IMDG** 

Marine pollutant : no

#### 14.6 Special precautions for user

For personal protection see section 8.

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### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mix-

: Directive 96/82/EC does not apply

Legislation on the control of major-accident hazards in-

volving dangerous substanc-

es

Volatile organic compounds : 20 %, Directive 2004/42/EC

#### 15.2 Chemical Safety Assessment

Exempt

#### **SECTION 16: Other information**

#### **Full text of R-Phrases**

R20/22 : Harmful by inhalation and if swallowed.

R34 : Causes burns. R38 : Irritating to skin.

R43 : May cause sensitisation by skin contact.

R50/53 : Very toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

R51/53 : Toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

R52 : Harmful to aquatic organisms.

R65 : Harmful: may cause lung damage if swallowed.

R66 : Repeated exposure may cause skin dryness or cracking.

**Full text of H-Statements** 

H302 : Harmful if swallowed.

H304 : May be fatal if swallowed and enters airways. H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.

H332 : Harmful if inhaled. H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.H411 : Toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. Acute toxicity

Aquatic Acute
Aquatic Chronic
Asp. Tox.
Skin Corr.
Skin Irrit.
Skin Sens.
Acute aquatic toxicity
Chronic aquatic toxicity
Aspiration hazard
Skin corrosion
Skin irritation
Skin sensitisation

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#### **Further information**

Changes compared with the previous edition!!!

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.