

grotamar 82**1 | FL No Change Service!**

Version 03.00

Revision Date 09.05.2014

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name : grotamar 82 1 | FL

1.2 Relevant identified uses of the substance or mixture and uses advised againstUse of the Sub-
stance/Mixture : Preservative**1.3 Details of the supplier of the safety data sheet**Producer/Supplier : Schülke & Mayr UK Ltd.
Cygnet House
1, Jenkin road, Meadowhall
S9 1AT Sheffield
United Kingdom
Telephone: +441142543500
Telefax: +441142543501
mail.uk@schulke.com
www.schulke.comContact person : SAI/AT +49 40 52100 100 or S&M UK +44 114 254 3500
sai-at@schuelke.com**1.4 Emergency telephone number**Emergency telephone num-
ber : UK Poisons Emergency number: 0870 600 6266
Emergency telephone num-
ber : +441142543500
+49 (0)40 / 52 100 -0**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-
ways.
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.
R65: Harmful: may cause lung damage if swal-
lowed.
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 airways.
H314	Causes severe skin burns and eye damage.
H412	Harmful to aquatic life with long lasting effects.

Supplemental Hazard Statements

: EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements

: P102	Keep out of reach of children.
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.
P405	Store locked up.

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

: Use biocides safely. Always read the label and product information before use.

2.3 Other hazards

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 equipment.

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 storage 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	Permissible exposure limit	0,3 ppm 0,37 mg/m ³	DFG
Formaldehyde	50-00-0	Ceiling Limit Value	0,6 ppm 0,74 mg/m ³	DFG
Formaldehyde	50-00-0	Permissible exposure limit	0,75 ppm	OSHA
Formaldehyde	50-00-0	Short term exposure limit	2 ppm	OSHA

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

Benzene, C10-13-alkyl derivatives : End Use: Workers, Exposure routes: Skin contact, Potential health effects: Systemic effects, Long-term exposure, Value: 9,6 mg/kg
 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 mg/kg
 End Use: Consumers, Exposure routes: Inhalation, Potential health effects: Systemic effects, Long-term exposure, Value: 1,8 mg/m³
 End Use: Consumers, Exposure routes: Ingestion, Potential health effects: Systemic effects, Long-term exposure, Value: 0,5 mg/kg
 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 derivatives : 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

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8.2 Exposure controls

Personal protective equipment

- Eye protection : Tightly fitting safety goggles
- 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.
- Protective measures : Avoid contact with skin and eyes.

Environmental exposure controls

- 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 °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

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SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****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 Guideline 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 eye 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., Mutagenicity (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

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No data available

Reproductive toxicity**Components:****|| 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 classification criteria are not met.
Effects on foetal development	: rat, Oral, NOAEL: 125 mg/kg, Based on available data, the 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.

Further information**Product**

The classification was made according to the calculation procedure of the Preparations Directive.

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 aquatic invertebrates	: EC50 (Daphnia magna): 37,9 mg/l, 48 h
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,

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		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 (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 21 d, No toxicity at the limit of solubility
	2,6-Di-tert-Butylphenol:	
	Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 13 mg/l, 96 h
	Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 0,45 mg/l, 48 h

12.2 Persistence and degradability**Product**

Biodegradability	: biodegradable
Physico-chemical removability	: The product is slightly soluble in water. It can be eliminated from water by abiotic processes.

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

Biodegradability	: biodegradable OECD 301D / EEC 84/449 C6
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Benzene, C10-13-alkyl derivatives:

Biodegradability	: Readily biodegradable. > 60 o/o, 28 d, OECD Test Guideline 301F
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2,6-Di-tert-Butylphenol:

Biodegradability	: Not readily biodegradable. < 50 o/o, 5 d
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12.3 Bioaccumulative potential**Components:****3,3'-methylenebis[5-methyloxazolidine]:**

Partition coefficient: n-octanol/water	: log Pow: -0,3
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Benzene, C10-13-alkyl derivatives:

Bioaccumulation	: Species: Lepomis macrochirus (Bluegill sunfish), 96 d, 0,092 mg/l, Bioconcentration factor (BCF): 35
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Partition coefficient: n-octanol/water	: log Pow: > 5,0
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2,6-Di-tert-Butylphenol:

Partition coefficient: n-octanol/water	: log Pow: 4,5
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12.4 Mobility in soil**Product**

Mobility	: No data available
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12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects**Product**

Adsorbed organic bound halogens (AOX)	: Product does not contain any organic halogens.
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SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product	: Dispose of as special waste in compliance with local and na-
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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 handling site for recycling or 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).

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

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Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

For personal protection see section 8.

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 mixture**

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

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 Acute aquatic toxicity

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke 

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

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.