

Grotamar 82**No Change Service!**

Version 02.02

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

Trade name : Grotamar 82

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

Use of the Substance/Mixture : Preservative

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

Contact 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 number : +49 (0)40 / 52 100 -0

2. Hazards identification**2.1 Classification of the substance or mixture****Classification (67/548/EEC, 1999/45/EC)**

Corrosive

R34: Causes burns.

2.2 Label elements**Labelling according to EC Directives (1999/45/EC)**

Hazard pictograms



Corrosive

R-phras(e)s

: R34

Causes burns.

S-phras(e)s

: S 2
S26Keep out of the reach of children.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28

After contact with skin, wash immediately with plenty of water.

S35

This material and its container must be disposed of in a safe way.

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S36/37/39

Wear suitable protective clothing, gloves and eye/face protection.

S45

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Hazardous components which must be listed on the label:

- 66204-44-2 3,3'-Methylenebis[5-methyloxazolidine]

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

No special risks known.

3. Composition/information on ingredients

3.2 Mixtures

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	C; R21/22-R34-R52	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1C; H314	18 - 22 %
N,N-Bis(2-ethylhexyl)- ((1,2,4-triazol-1-yl)methyl)amine	91273-04-0 401-280-0	C-N; R34-R43-R51/53		<= 1 %

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

For the full text of the H-Statements mentioned in this Section, see Section 16.

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.

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- 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.

5. Fire-fighting 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.

5.3 Advice for firefighters

- Specific risk from the substance or the product itself, its combustion products or evolved gases : Decomposition products, see chapter 10

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.

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6.3 Methods and materials 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 chapter 8 + 13

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.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature in the original container.

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 uses

none

8. Exposure controls/personal protection**8.1 Control parameters**

Components	CAS-No.	Value	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

8.2 Exposure controls

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Personal protective equipment

- Hand protection : Impervious gloves
Splash protection: disposable nitrile rubber gloves e.g. Dermatril made by KCL or gloves from other manufacturers offering the same protection.
Prolonged contact: Butyl rubber gloves e.g. Butoject (>480 Min.) 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.

Environmental exposure controls

- General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

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
Method: Directive 92/69/EEC, A.2
- Density : 0,884 - 0,895 g/cm³
at 20 °C
Method: Directive 92/69/EEC, A.3
- Flow time : < 15 s
at 20 °C
Method: DIN 53211

9.2 Other information

None known.

10. Stability and reactivity**10.1 Reactivity**

Stable under recommended storage conditions.

10.2 Chemical stability

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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

Decomposition products : formaldehyde

11. Toxicological information**11.1 Information on toxicological effects**

Acute oral toxicity
3,3'-Methylenebis[5-methyloxazolidine] : LD50: 900 mg/kg
Species: rat

Acute inhalation toxicity
3,3'-Methylenebis[5-methyloxazolidine] : LC50: 2 mg/l
Exposure time: 4 h
Species: rat
Method: OECD Test Guideline 436

Acute dermal toxicity
3,3'-Methylenebis[5-methyloxazolidine] : LD50: 1207 - 1620 mg/kg
Species: rat
Method: OECD Test Guideline 402

Skin irritation
3,3'-Methylenebis[5-methyloxazolidine] : Species: rabbit
Severe skin irritation
Test substance: concentrate

Eye irritation
3,3'-Methylenebis[5-methyloxazolidine] : Species: rabbit
Risk of serious damage to eyes.
Test substance: concentrate

Sensitisation
3,3'-Methylenebis[5-methyloxazolidine] : Species: guinea pig
Did not cause sensitization on laboratory animals.

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Method: OECD Test Guideline 406

Germ cell mutagenicity
3,3'-Methylenebis[5-
methyloxazolidine]: Not mutagenic in Ames Test.
Method: OECD 471Genotoxicity in vivo
3,3'-Methylenebis[5-
methyloxazolidine]: Mutagenicity (in vivo mammalian bone-marrow cytogenetic
test, chromosomal analysis)
Species: mouse
Method: OECD Test Guideline, 475
Did not show mutagenic effects in animal experiments.

Repeated dose toxicity

3,3'-Methylenebis[5-
methyloxazolidine]: Species: rat
Application Route: Repeated dose (90 days) toxicity (oral)
NOEL: 72 mg/kg
Method: OECD Test Guideline, 408

Further information

: The classification was made according to the calculation
procedure of the Preparations Directive.**12. Ecological information****12.1 Toxicity**

Toxicity to fish

3,3'-Methylenebis[5-
methyloxazolidine]: LC50: 57,7 mg/l
Species: Brachidanio rerio

Toxicity to daphnia and other aquatic invertebrates.

3,3'-Methylenebis[5-
methyloxazolidine]: EC50: 37,9 mg/l
Exposure time: 48 h
Species: Daphnia magna

Toxicity to algae

3,3'-Methylenebis[5-
methyloxazolidine]: EC50: 5,7 mg/l
Exposure time: 72 h
Species: Desmodesmus subspicatus (green algae)

Toxicity to bacteria

3,3'-Methylenebis[5-
methyloxazolidine]: EC50: 44 mg/l
Method: OECD 209**12.2 Persistence and degradability**

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Biodegradability : biodegradable

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water
3,3'-Methylenebis[5-methyloxazolidine] : log Pow: -0,3

12.4 Mobility in soil

Mobility : no data available

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

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

Adsorbed organic bound halogens (AOX) : Product does not contain any organic halogens.

13. Disposal considerations

13.1 Waste treatment methods

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 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),

14. Transport information

ADR : UN number 3267



Proper shipping name

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (3,3'-Methylenebis[5-methyloxazolidine])

Transport hazard class 8
Packaging group III
Environmental hazards -

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IMDG : Classification Code C7
ADR/RID-Labels 8
ICAO-Labels -
UN number 3267



Proper shipping name

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (3,3'-Methylenebis[5-methyloxazolidine])

IATA : Transport hazard class 8
Packaging group III
Environmental hazards -
EmS F-A, S-B
UN number 3267



Proper shipping name

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (3,3'-Methylenebis[5-methyloxazolidine])

Transport hazard class 8
Packaging group III
Environmental hazards -

Special precautions for user

ADR Tunnel restriction code: E

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

Exempt

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 (VOC) content : 20 %
Directive 2004/42/EC

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

15.2 Chemical Safety Assessment

Exempt

16. Other information

Full text of R-phrases referred to under sections 2 and 3

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R21/22	Harmful in contact with skin and if swallowed.
R34	Causes burns.
R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52	Harmful to aquatic organisms.

Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H332	Harmful if inhaled.

|| 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.