

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: RSM002 grotamar 82
Print date: 12.09.2019 Revision date: 12.09.2019
Version: 1.1 Issue date: 12.09.2019

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

1.1. product identifiers

Article No. (manufacturer/supplier): RSM002
Identification of the substance or mixture grotamar 82

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

Relevant identified uses

Preservative
Industrial use

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

Vink Chemicals GmbH & Co. KG

Eichenhöhe 29
D-21255 Kakenstorf

Telephone: +49 (0) 4186 - 88797 0

Telefax: +49 (0) 4186 - 88797 10

Dept. responsible for information:

Mr. J. Vink

E-mail (competent person)

support@vink-chemicals.com

1.4. Emergency telephone number

Emergency telephone number

National Poisons Information Service

0844 892 0111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

*

Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Skin Corr. 1B / H314

skin corrosion/irritation

Causes severe skin burns and eye damage.

Skin Sens. 1 / H317

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Carc. 1B / H350

Carcinogenicity

May cause cancer.

Asp. Tox. 1 / H304

Aspiration hazard

May be fatal if swallowed and enters airways.

Aquatic Chronic 2 / H411

Hazardous to the aquatic environment

Toxic to aquatic life with long lasting effects.

2.2. Label elements

*

The product is classified and labelled according to EC directives or corresponding national laws.

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Danger

Hazard statements

H314

Causes severe skin burns and eye damage.

H317

May cause an allergic skin reaction.

H350

May cause cancer.

H304

May be fatal if swallowed and enters airways.

H411

Toxic to aquatic life with long lasting effects.

Precautionary statements

P201

Obtain special instructions before use.

P260

Do not breathe vapour.

P280

Wear protective gloves and eye/face protection.

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P301 + P312

IF SWALLOWED: Call a POISON CENTER/doctor/?/ if you feel unwell.

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/or shower.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313

IF exposed or concerned: Get medical advice/attention.

P310

Immediately call a POISON CENTER or doctor/ physician.

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P331 Do NOT induce vomiting.

contains:

1-aminopropan-2-ol
Paraformaldehyd
C10-C13 N-Alkylbenzol
N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)

Supplemental Hazard information (EU)

not applicable

2.3. Other hazards

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Product description / chemical characterization

Description Biocide

Hazardous ingredients

Classification according to Regulation (EC) No 1272/2008 [CLP]

EC No. CAS No. INDEX No.	REACH No. Chemical name classification: // Remark	Wt %
267-051-0 67774-74-7	C10-C13 N-Alkylbenzol Asp. Tox. 1 H304	50 - 100
201-162-7 78-96-6 603-082-00-1 608-494-5 30525-89-4	1-aminopropan-2-ol Acute Tox. 4 H312 / Skin Corr. 1B H314 Paraformaldehyd Acute Tox. 4 H302 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Carc. 1B H350 / STOT SE 3 H335 / Flam. Sol. 1 H228	10 - 12,5 5 - 10
401-280-0 91273-04-0 613-072-00-9	N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine Skin Corr. 1B H314 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Asp. Tox. 1 H304 / Aquatic Chronic 1 H410	0,5 - 1
204-884-0 128-39-2	2,6-di-tert-butylphenol Skin Irrit. 2 H315 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	0,5 - 1

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. Consult a physician.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners. Consult a physician.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Seek medical advice immediately.

- 4.2. **Most important symptoms and effects, both acute and delayed**
In all cases of doubt, or when symptoms persist, seek medical advice.

- 4.3. **Indication of any immediate medical attention and special treatment needed**

SECTION 5: Firefighting measures

- 5.1. **Extinguishing media**

Suitable extinguishing media:

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons:

strong water jet

- 5.2. **Special hazards arising from the substance or mixture**

Do not breathe gas/fumes/vapour/spray. Inhaling hazardous decomposing products can cause serious health damage.

- 5.3. **Advice for firefighters**

Provide a conveniently located respiratory protective device.

Additional information

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

- 6.1. **Personal precautions, protective equipment and emergency procedures**

Ventilate affected area. Do not breathe vapours. See protective measures under point 7 and 8.

- 6.2. **Environmental precautions**

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

- 6.3. **Methods and material for containment and cleaning up**

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

- 6.4. **Reference to other sections**

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

- 7.1. **Precautions for safe handling**

Advices on safe handling

Keep out of the reach of children. Do not get in eyes, on skin, or on clothing. Do not breathe dust or spray mist. Avoid long-term and repeated skin contact. Do not taste or swallow. Thorough skin-cleansing after handling the product. Store in a well-ventilated place. Keep container tightly closed. Use only with sufficient ventilation. Refer to chapter 8. : Exposure controls / Personal protection

Precautions against fire and explosion:

Respiratory protection necessary at: aerosol or mist formation

- 7.2. **Conditions for safe storage, including any incompatibilities**

Technical measures and storage conditions

Keep/Store only in original container.

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO).

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

- 7.3. **Specific end use(s)**

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

- 8.1. **Control parameters**

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Occupational exposure limit values

not applicable

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Occupational exposure controls

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation Use only respiratory protection equipment with CE-symbol including four digit test number. Combination filtering device (EN 14387) Filter type: ABEK

Hand protection

Wear protective gloves. Suitable material: Nitrile, Butyl caoutchouc (butyl rubber). Recommended glove articles EN ISO 374

Eye protection

Wear eye glasses with side protection according to EN 166.

Protective clothing

Suitable protective clothing: Protective clothing. type 6 DIN EN 13034

Protective measures

Avoid contact with eyes and skin. Do not breathe aerosol. After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Physical state:	Liquid
Appearance:	Liquid
Colour:	colourless

Odour:	characteristic
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Odour threshold:	not applicable
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pH at 20 °C::	not applicable
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Initial boiling point and boiling range:	100 °C
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Flash point:	> 100 °C
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Evaporation rate:	not applicable
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Flammability (solid, gas):

Burning time (s):	not applicable
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Upper/lower flammability or explosive limits:

Lower explosion limit:	2,2 Vol-%
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Upper explosion limit:	12 Vol-%
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Vapour pressure at 20 °C::	0,2168 mbar
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Vapour density:	not applicable
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Relative density:

Density at 20 °C::	0,882 g/cm³
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Solubility(ies):

Water solubility (g/L) at 20 °C::	128
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Partition coefficient: n-octanol/water:	see section 12
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Auto-ignition temperature:	380 °C
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Decomposition temperature:	not applicable
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Explosive properties:	not applicable
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Oxidising properties:	not applicable
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9.2. Other information

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SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

Classification according to Regulation (EC) No 1272/2008 [CLP]

No data on preparation itself available.

11.1. Information on toxicological effects

Acute toxicity

Paraformaldehyd

oral, LD50, Rat: 592 mg/kg

dermal, LD50, Rabbit: > 10000 mg/kg

inhalative (dust and mist), LC50, Rat: 1,07 mg/l (4 h)

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

oral, LD50, Rat: 2238 mg/kg 0 - 2238 mg/kg

Method: OECD 401

dermal, LD50, Rat: 2000 mg/kg

Method: OECD 402

1-aminopropan-2-ol

oral, LD50, Rat: 2000 - 5000 mg/kg

dermal, LD50, Rabbit: 1000 - 2000 mg/kg

skin corrosion/irritation; Serious eye damage/eye irritation

Corrosive

Causes severe skin burns and eye damage.

Respiratory or skin sensitisation

sensitising

May cause an allergic skin reaction.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

May cause cancer.

Specific target organ toxicity

Toxicological data are not available.

Aspiration hazard

May be fatal if swallowed and enters airways.

Practical experience/human evidence

Other observations:

Overall Assessment on CMR properties

EC No.	Chemical name	Classification according to
CAS No.		Regulation (EC) No 1272/2008
		[CLP]

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608-494-5
30525-89-4

Paraformaldehyd

Carc. 1B

Remark

There is no information available on the preparation itself .

SECTION 12: Ecological information

overall evaluation

Classification according to Regulation (EC) No 1272/2008 [CLP]

12.1. Toxicity

Paraformaldehyd

Fish toxicity, LC50: 6,7 mg/l (96 h)

Daphnia toxicity, EC50, Daphnia pulex: 5,8 mg/l (48 h)

Method: OECD 202

Algae toxicity, ErC50, Desmodesmus subspicatus. (72 h)

Method: OECD 201.

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

Fish toxicity, LC50, Brachydanio rerio (zebra-fish): 1,1 mg/l (96 h)

Method: OECD 203

Algae toxicity, ErC50, Desmodesmus subspicatus: > 1 mg/l (72 h)

Method: OECD 201

2,6-di-tert-butylphenol

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 1,4 mg/l (96 h)

Daphnia toxicity, EC50, Daphnia magna: 0,45 mg/l (48 h)

1-aminopropan-2-ol

Fish toxicity, LC50, Leuciscus idus (golden orfe): > 100 mg/l (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 100 mg/l (48 h)

Algae toxicity, ErC50, Desmodesmus subspicatus.: > 0 mg/l 10 - 100 mg/l

Long-term Ecotoxicity

Toxic to aquatic life with long lasting effects.

2,6-di-tert-butylphenol

Daphnia toxicity, EC50, Daphnia magna: 0,035 mg/l (48 h)

12.2. Persistence and degradability

Toxicological data are not available.

12.3. Bioaccumulative potential

Toxicological data are not available.

Bioconcentration factor (BCF)

Toxicological data are not available.

12.4. Mobility in soil

Toxicological data are not available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product

Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way.

List of proposed waste codes/waste designations in accordance with EWC

140603* other solvents and solvent mixtures

packaging Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

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- 14.1. **UN number**
UN 1760
- 14.2. **UN proper shipping name**
Land transport (ADR/RID): Corrosive liquid, n.o.s.
(Isopropanolamine)
Sea transport (IMDG): CORROSIVE LIQUID, N.O.S.
(Isopropanolamine)
Air transport (ICAO-TI / IATA-DGR): Corrosive liquid, n.o.s.
(Isopropanolamine)
- 14.3. **Transport hazard class(es)**
8
- 14.4. **Packing group**
II
- 14.5. **Environmental hazards**
Land transport (ADR/RID) not applicable
Marine pollutant not applicable
- 14.6. **Special precautions for user**
Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8
- Further information**
- Land transport (ADR/RID)**
tunnel restriction code E
- Sea transport (IMDG)**
EmS-No. F-A, S-B
- Air transport (ICAO-TI / IATA-DGR)**
- 14.7. **Transport in bulk according to Annex II of Marpol and the IBC Code**
not applicable

SECTION 15: Regulatory information

- 15.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- EU legislation**
Restrictions of occupation:
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
- Directive 2010/75/EU on industrial emissions**
VOC-value (in g/L): 868
- National regulations**

- 15.2. **Chemical Safety Assessment**
For the following substances of this preparation a chemical safety assessment has been carried out:

EC No. CAS No.	Chemical name	REACH No.
267-051-0 67774-74-7	C10-C13 N-Alkylbenzol	01-2119489372-31
201-162-7 78-96-6	1-aminopropan-2-ol	01-2119475331-43
401-280-0 91273-04-0	N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine	01-2119489372-31
204-884-0 128-39-2	2,6-di-tert-butylphenol	01-2119490822-33

SECTION 16: Other information

Full text of classification in section 3:

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Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Skin Corr. 1B / H314	skin corrosion/irritation	Causes severe skin burns and eye damage.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Carc. 1B / H350	Carcinogenicity	May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
Flam. Sol. 1 / H228	flammable solids	Flammable solid.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.

Further information

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

* Data changed compared with the previous version