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

Article No.: RSM001 grotamar 71

 Print date:
 01.10.2019
 Revision date: 27.09.2019
 EN

 Version:
 1.1
 Issue date: 27.09.2019
 Page 1 / 7



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

1.1. product identifiers

Article No. (manufacturer/supplier): RSM001
Identification of the substance or mixture grotamar 71

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 Telephone: +49 (0) 4186 - 88797 0 D-21255 Kakenstorf 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]

Acute Tox. 4 / H302 Acute toxicity (oral) Harmful if swallowed.

Acute Tox. 3 / H311 Acute toxicity (dermal) Toxic in contact with skin.

Acute Tox. 4 / H332 Acute toxicity (inhalative) Harmful if inhaled.

Skin Corr. 1B / H314 Skin corrosion/irritation Causes severe skin burns and eye damage.

Eye Dam. 1 / H318 Serious eye damage/eye irritation Causes serious eye damage.

Skin Sens. 1A / H317 Respiratory or skin sensitisation Muta. 2 / H341 Germ cell mutagenicity Suspected of causing genetic defects.

Carc. 1B / H350 Carcinogenicity May cause cancer.

STOT RE 2 / H373 STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

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

H302 + H332 Harmful if swallowed or if inhaled.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.

H350 May cause cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.

P260 Do not breathe vapour.

P273 Avoid release to the environment.

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

Article No.: RSM001 grotamar 71

 Print date:
 01.10.2019
 Revision date: 27.09.2019
 EN

 Version:
 1.1
 Issue date: 27.09.2019
 Page 2 / 7

P280 Wear protective gloves and eye/face protection.

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.

P391 Collect spillage.

contains:

reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]

Supplemental Hazard information (EU)

EUH071 Corrosive to the respiratory tract.

2.3. Other hazards

SECTION 3: Composition / information on ingredients

3.1. Substances

Description Biocide Hazardous ingredients

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

EC No. REACH No.
CAS No. Chemical name
INDEX No. classification: // Remark

Classification. // Remark

66204-44-2 reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); 50 - 100

[MBO]

Acute Tox. 4 H302 / Acute Tox. 3 H311 / Acute Tox. 4 H332 / Skin Corr. 1B H314 / Eye Dam. 1 H318 / Skin Sens. 1A H317 / Muta. 2 H341 / Carc.

1B H350 / STOT RE 2 H373 / Aquatic Chronic 2 H411

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)



Wt %

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

Article No.: RSM001 grotamar 71

Print date: 01.10.2019 Revision date: 27.09.2019 Issue date: 27.09.2019 Version:



ΕN Page 3 / 7

Extinguishing media which must not be used for safety reasons:

strong water jet

Special hazards arising from the substance or mixture

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

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

Personal precautions, protective equipment and emergency procedures

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

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.

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.

Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

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

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.

Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

Control parameters

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

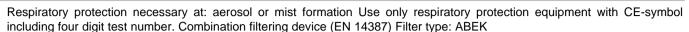
Respiratory protection

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

Article No.: RSM001 grotamar 71

 Print date:
 01.10.2019
 Revision date: 27.09.2019
 EN

 Version:
 1.1
 Issue date: 27.09.2019
 Page 4 / 7



VINK

HEMICAL

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:
Appearance:
Colour:

Colour:

Codour:

Codour:

Codour threshold:

Liquid
Liquid
Liquid
Liquid
Cight yellow
Ight yellow
Characteristic
not applicable

pH at 20 °C:: 10
Initial boiling point and boiling range: 204 °C
Flash point: > 100 °C

Evaporation rate: not determined

Flammability (solid, gas):

Burning time (s): not determined

Upper/lower flammability or explosive limits:

Lower explosion limit:
Upper explosion limit:

Vapour pressure at 20 °C::

Vapour density:

not applicable
not applicable
not applicable
not applicable
not deplicable

Relative density:

Density at 20 °C:: 1,061 g/cm³

Solubility(ies):

Water solubility (g/L) at 20 °C:: 999

Partition coefficient: n-octanol/water: see section 12
Auto-ignition temperature: not determined
Decomposition temperature: not determined
Explosive properties: not applicable
Oxidising properties: not applicable

9.2. Other information

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

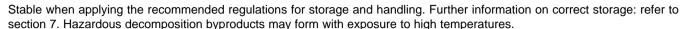
according to Regulation (EC) No. 1907/2006 (REACH)

according to Regulation (EU) 2015/830

Article No.: RSM001 grotamar 71

 Print date:
 01.10.2019
 Revision date: 27.09.2019
 EN

 Version:
 1.1
 Issue date: 27.09.2019
 Page 5 / 7



VINK

HEMICAL

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

Harmful if swallowed.

Toxic in contact with skin.

Harmful if inhaled.

reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]

oral, LD50, Rat: 632 mg/kg

dermal, LD50, Rat 760 - 6000 mg/kg

Method: OECD 402

inhalative (dust and mist), LC50, Rat: 2 mg/l (4 h)

Method: OECD 436

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)

Suspected of causing genetic defects.

May cause cancer.

Specific target organ toxicity

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Toxicological data are not available.

Practical experience/human evidence

Other observations:

Overall Assessment on CMR properties

EC No. CAS No.		Classification according to Regulation (EC) No 1272/2008 [CLP]
66204-44-2	reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]	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

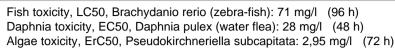
reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]

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

Article No.: RSM001 grotamar 71

 Print date:
 01.10.2019
 Revision date: 27.09.2019
 EN

 Version:
 1.1
 Issue date: 27.09.2019
 Page 6 / 7



Long-term Ecotoxicity

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO] : 89,8 (28 day(s)); evaluation Readily biodegradable (according to OECD criteria) Method: OECD 306

12.3. Bioaccumulative potential

reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO] Partition coefficient: n-octanol/water: -0.3

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

This substance does not meet the PBT/vPvB criteria of 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

14.1. UN number

UN 2922

14.2. UN proper shipping name

Land transport (ADR/RID): Corrosive liquid, toxic, n.o.s.

((3,3-methylenebis(5-methyloxazolidine))) solution

Sea transport (IMDG): CORROSIVE LIQUID, TOXIC, N.O.S.

((3,3-methylenebis(5-methyloxazolidine))) SOLUTION

Air transport (ICAO-TI / IATA-DGR): Corrosive liquid, toxic, n.o.s.

((3,3-methylenebis(5-methyloxazolidine))) solution

14.3. Transport hazard class(es)

8 (6.1)

14.4. Packing group

Ш

14.5. Environmental hazards

Land transport (ADR/RID) UMWELTGEFÄHRDEND

Marine pollutant p / (3,3-methylenebis(5-methyloxazolidine))

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



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

Article No.: RSM001 grotamar 71

 Print date:
 01.10.2019
 Revision date: 27.09.2019

 Version:
 1.1
 Issue date: 27.09.2019



EN Page 7 / 7

Land transport (ADR/RID)

tunnel restriction code

Sea transport (IMDG)

EmS-No. F-A, S-B

in packages <= 5 litres not restricted 2.10.2.7

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

Ε

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): 1061

National regulations

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Full text of classification in section 3:

Acute Tox. 4 / H302 Acute toxicity (oral) Harmful if swallowed.

Acute Tox. 3 / H311 Acute toxicity (dermal) Toxic in contact with skin.

Acute Tox. 4 / H332 Acute toxicity (inhalative) Harmful if inhaled.

Skin Corr. 1B / H314 Skin corrosion/irritation Causes severe skin burns and eye damage. Eve Dam. 1 / H318 Serious eve damage/eve irritation Causes serious eve damage.

Eye Dam. 1 / H318 Serious eye damage/eye irritation Causes serious eye damage.

Skin Sens. 1A / H317 Respiratory or skin sensitisation May cause an allergic skin reaction.

Muta. 2 / H341 Germ cell mutagenicity Suspected of causing genetic defects (state

route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

May cause cancer (state route of exposure if it

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 RE 2 / H373 STOT-repeated exposure May cause damage to organs (or state all

organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of

exposure cause the hazard).

Aquatic Chronic 2 / H411 Hazardous to the aquatic environment Toxic to aquatic life with long lasting effects.

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