

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 21.11.2023

Revision: 21.11.2023

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

- **1.1 Product identifier**
- **Trade name:** Stekat RG 300
- **Article number:** 1908
- **CAS Number:**  
6711-48-4
- **EC number:**  
229-761-9
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture**  
catalyst  
Industrial use
- **Uses advised against** SU21 Consumer uses: Private households / general public / consumers
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Möller Chemie GmbH & Co. KG  
Bürgerkamp 1  
D-48565 Steinfurt  
Tel.: 02551/9340-0  
Fax: 02551/9340-60
- **Further information obtainable from:** Product safety department
- **1.4 Emergency telephone number:**  
Poison Control Center Mainz - 24 hour emergency service - Tel.: +49 (0) 6131/19240

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



skull and crossbones

Acute Tox. 3 H311 Toxic in contact with skin.



corrosion

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

Eye Dam. 1 H318 Causes serious eye damage.



Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**



GHS05 GHS06

- **Signal word** Danger

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**· Hazard statements**

- H302 Harmful if swallowed.*
- H311 Toxic in contact with skin.*
- H314 Causes severe skin burns and eye damage.*
- H317 May cause an allergic skin reaction.*

**· Precautionary statements**

- 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.*
- P310 Immediately call a POISON CENTER/doctor.*
- P321 Specific treatment (see on this label).*
- P361+P364 Take off immediately all contaminated clothing and wash it before reuse.*
- P405 Store locked up.*
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

**· 2.3 Other hazards**

*The product does not contain any substance above the legal limits included on the list for endocrine disrupting properties established under Article 59(1) of Regulation (EC) No 1907/2006 or under Commission Delegated Regulation (EU) 2017/2100 or of Commission Regulation (EU) 2018/605 has endocrine disrupting properties.*

**· Results of PBT and vPvB assessment****· PBT:**

*The product does not contain any substances above legal limits that meet the criteria for PBT (persistent, bioaccumulative and toxic).*

**· vPvB:**

*The product does not contain any substances above legal limits that meet the criteria for vPvB (very persistent and very bioaccumulative).*

### SECTION 3: Composition/information on ingredients

**· 3.1 Substances****· CAS No. Description**

*6711-48-4 N'-[3-(dimethylamino)propyl]-N,N-dimethylpropane-1,3-diamine*

**· Identification number(s)****· EC number:** 229-761-9**· Additional information:**

*Hazardous ingredients:*

*CAS: 109-55-7 N, N-dimethyl-1,3-diaminopropane ≤ 2,5 %*

*EINECS: 203-680-9*

*Index no .: 612-061-00-6*

*Reach.-Reg.-No .: 01-2119486842-27*

### SECTION 4: First aid measures

**· 4.1 Description of first aid measures****· General information:**

*Immediately remove any clothing soiled by the product.*

*Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.*

*In case of irregular breathing or respiratory arrest provide artificial respiration.*

**· After inhalation:**

*Supply fresh air and to be sure call for a doctor.*

*In case of unconsciousness place patient stably in side position for transportation.*

**· After skin contact:**

*Immediately wash with water and soap and rinse thoroughly.*

*Call a doctor immediately.*

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- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Seek medical treatment.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Mount respiratory protective device.  
Provide adequate ventilation.  
Keep away from ignition sources.  
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Use neutralising agent.  
Dispose contaminated material as waste according to section 13.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Avoid contact with eyes and skin.  
Ensure good ventilation/exhaustion at the workplace.  
Do not inhale gases/vapours/aerosols.
- **Information about fire - and explosion protection:**  
Fumes can combine with air to form an explosive mixture.  
Have breathing apparatus ready.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Keep container tightly closed Keep us in a cool, well-ventilated place.
- **Information about storage in one common storage facility:** Do not store together with acids
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class:** 6.1 C

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· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see section 7.
- **Ingredients with limit values that require monitoring at the workplace:** Not required.

- **DNELs**

CAS: 109-55-7 N, N-dimethyl-1,3-diaminopropane  
Inhalation 9,8 mg / m<sup>3</sup> (commercial worker - short-term) (systemic)

- **PNECs**

CAS: 109-55-7 N,N-Dimethyl-1,3-diaminopropane  
0.034 mg/l (fresh water)  
0.003 mg/l (sea water)

- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from food, drink and animal feed.  
Take off contaminated, soaked clothing immediately.  
Wash hands before breaks and at the end of work.  
Avoid contact with eyes.  
Avoid contact with eyes and skin.  
Do not eat, drink, smoke or sniff while working.  
Store protective clothing separately.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.

- **Respiratory protection:**

Not required.  
Filter A/P2

- **Protection of hands:**



Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

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## SECTION 9: Physical and chemical properties

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

#### · General Information

#### · Appearance:

Form:	Fluid
Colour:	colorless to yellowish
Odour:	Amine-like
Odour threshold:	Not determined.

· pH-value: 11

#### · Change in condition

Melting point/freezing point:	<-20 °C
Initial boiling point and boiling range:	229 °C (CAS: 6711-48-4)

· Flash point: 92 °C (CAS: 6711-48-4)

· Flammability (solid, gas): Not applicable.

· Auto-ignition temperature: 224 °C

· Decomposition temperature: Not determined.

· Ignition temperature: not determined

· Explosive properties: Product does not present an explosion hazard.

#### · Explosion limits:

Lower:	0.7 Vol % (CAS: 6711-48-4)
Upper:	4.9 Vol % (CAS: 6711-48-4)

· Vapour pressure at 20 °C: <1 hPa (CAS: 6711-48-4)

Density at 20 °C:	0.84 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.

· Solubility in / Miscibility with water: completely miscible

· Partition coefficient: n-octanol/water: not determined

#### · Viscosity:

Dynamic:	Not determined.
Kinematic at 20 °C:	4 mm <sup>2</sup> /s

· 9.2 Other information No further relevant information available.

## SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions

Strong exothermic reaction with acids.

Reactions with acids.

· 10.4 Conditions to avoid No further relevant information available.

· 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated become.

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### SECTION 11: Toxicological information

#### · 11.1 Information on toxicological effects

##### · Acute toxicity

Harmful if swallowed.

Toxic in contact with skin.

##### · LD/LC50 values relevant for classification:

Dermal	LD50	300 mg/kg (ATE)
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##### · Primary irritant effect:

##### · Skin corrosion/irritation

Causes severe skin burns and eye damage.

##### · Serious eye damage/irritation

Causes serious eye damage.

##### · Respiratory or skin sensitisation

May cause an allergic skin reaction.

##### · Additional toxicological information:

With nitrosating agents (e.g. nitrites, nitrogen oxides) nitrosamines can form under special conditions. Nitrosamines have been shown to be carcinogenic in animal experiments.

##### · CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

##### · Germ cell mutagenicity Based on available data, the classification criteria are not met.

##### · Carcinogenicity Based on available data, the classification criteria are not met.

##### · Reproductive toxicity Based on available data, the classification criteria are not met.

##### · STOT-single exposure Based on available data, the classification criteria are not met.

##### · STOT-repeated exposure Based on available data, the classification criteria are not met.

##### · Aspiration hazard Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

CAS: 6711-48-4 N'-(3-(Dimethylamino)propyl)-N,N-dimethyl-1,3-propanediamine

EC/LC50/72h: 35 mg/l (algae)

LC50/96h: 21 - 46.6 mg/l (Brachydanio rerio (fish))

EC/LC50/48h: 40.6 mg/l (Daphnia)

EC/LC50/72h: > 1,000 mg/l (bacteria)

CAS: 109-55-7 N,N-Dimethyl-1,3-diaminopropane

EC10(17h): 69.5 mg/l (Pseudomonas putida (bacteria))

EC/LC: 95 mg/l (bacteria) ((EC50(17h) Pseudomonas putida)

EC/LC: 122 mg/l (Leuciscus idus (fish))

EC50: > 1,000 mg/l (bacteria) ((EC50(0.5h) activated sludge)

EC/LC50/48 h: 44.5 mg/l (Daphnia)

EC/LC50/72h: 53.5 mg/l (algae)

EC50/48h: 59.5 mg/l (Daphnia)

##### · 12.2 Persistence and degradability No further relevant information available.

##### · Behaviour in environmental systems:

##### · Components:

The product is a base. As a rule, neutralization is necessary before discharging wastewater into sewage treatment plants.

##### · 12.3 Bioaccumulative potential No further relevant information available.

##### · 12.4 Mobility in soil No further relevant information available.

##### · Additional ecological information:

##### · General notes:

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water

Danger to drinking water if even small quantities leak into the ground.

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- **12.5 Results of PBT and vPvB assessment**
- **PBT:** The product is not considered to be persistent, bioaccumulating nor toxic (PBT).
- **vPvB:** The product is not considered to be persistent or very bioaccumulative (vPvB).
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Must be specially treated adhering to official regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: Transport information

- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>                                | UN2922   |  |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul> | 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (N'-[3-(dimethylamino)propyl]-N,N-dimethylpropane-1,3-diamine)<br>CORROSIVE LIQUID, TOXIC, N.O.S. (N'-[3-(dimethylamino)propyl]-N,N-dimethylpropane-1,3-diamine)  |  |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul>                           | <div style="display: flex; align-items: center; gap: 10px;">   </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> | 8 (CT1) Corrosive substances.<br>8+6.1 |
| <ul style="list-style-type: none"> <li>· <b>IMDG</b></li> </ul>  | <div style="display: flex; align-items: center; gap: 10px;">   </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> | 8 Corrosive substances.<br>8/6.1       |
| <ul style="list-style-type: none"> <li>· <b>IATA</b></li> </ul>  | <div style="display: flex; align-items: center; gap: 10px;">   </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> | 8 Corrosive substances.<br>8 (6.1)     |
| <ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>                            | II   |  |
| <ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> </ul>   | Not applicable.  |  |

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<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b>      <i>Warning: Corrosive substances.</i></li> <li>· <b>Hazard identification number (Kemler code):</b>      86</li> <li>· <b>EMS Number:</b>      F-A,S-B</li> <li>· <b>Stowage Category</b>      B</li> <li>· <b>Stowage Code</b>      SW2 Clear of living quarters.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>      <i>Not applicable.</i></li> </ul>
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Limited quantities (LQ)</b>      1L</li> <li>· <b>Excepted quantities (EQ)</b>      Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml</li> <li>· <b>Transport category</b>      2</li> <li>· <b>Tunnel restriction code</b>      E</li> </ul>
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b>      1L</li> <li>· <b>Excepted quantities (EQ)</b>      Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml</li> </ul>
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b>      UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (N'-[3-(D I M E T H Y L A M I N O ) P R O P Y L ] - N , N - DIMETHYLPROPANE-1,3-DIAMINE), 8 (6.1), II</li> </ul>

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**
- **Regulated explosives precursors** Substance is not listed.
- **Regulated poisons** Substance is not listed.
- **Reportable explosives precursors** Substance is not listed.
- **Reportable poisons** Substance is not listed.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**  
The product is subject to Annex 2 of the Chemicals Prohibition Ordinance (ChemVerbotsV) - requirements in Reference to the levy
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Product safety department
- **Contact:** Mrs. Steyer
- **Abbreviations and acronyms:**  
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances

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*CAS: Chemical Abstracts Service (division of the American Chemical Society)**DNEL: Derived No-Effect Level (UK REACH)**PNEC: Predicted No-Effect Concentration (UK REACH)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**ATE: Acute toxicity estimate values**Acute Tox. 4: Acute toxicity – Category 4**Acute Tox. 3: Acute toxicity – Category 3**Skin Corr. 1B: Skin corrosion/irritation – Category 1B**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Skin Sens. 1: Skin sensitisation – Category 1*

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