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

1.1 Product identifier

- Trade name: AGITAN® 158

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

- No further relevant information available.

1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier: MÜNZING CHEMIE GmbH
  Munzingstrasse 2
  74232 Abstatt, Germany
  E-Mail: info@munzing.com
  Tel.: +49 7131 987-100

- Further information obtainable from:
  Product Safety Department
  E-mail (MSDS): msds@munzing.com

1.4 Emergency telephone number: For Chemical Emergencies: CHEMTREC: +1 703 741 5970

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008
  The product is not classified, according to the CLP regulation.

2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008 Void
- Hazard pictograms Void
- Signal word Void
- Hazard statements Void

2.3 Other hazards

- Additional information:
  Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
  Safety data sheet available on request.

Results of PBT and vPvB assessment

- PBT:
  CAS: 556-67-2 Octamethylcyclotetrasiloxane
  CAS: 541-02-6 Decamethylcyclopentasiloxane

- vPvB:
  CAS: 556-67-2 Octamethylcyclotetrasiloxane
  CAS: 541-02-6 Decamethylcyclopentasiloxane

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

- Description: Emulsion of an organo-modified polysiloxane

<table>
<thead>
<tr>
<th>CAS: 556-67-2</th>
<th>Octamethylcyclotetrasiloxane</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 209-136-7</td>
<td>PBT, vPvB</td>
</tr>
<tr>
<td>Reg.nr.: 01-2119529238-36</td>
<td>Flam. Liq. 3, H226; Repr. 2, H361f; Aquatic Chronic 4, H413</td>
</tr>
<tr>
<td>&lt;0.3%</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 541-02-6</th>
<th>Decamethylcyclopentasiloxane</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 208-764-9</td>
<td>Non-classified vPvB substance.</td>
</tr>
<tr>
<td>Reg.nr.: 01-2119511367-43</td>
<td>Non-classified PBT substance.</td>
</tr>
<tr>
<td>&lt;0.3%</td>
<td></td>
</tr>
</tbody>
</table>

(Contd. on page 2)
SECTION 4: First aid measures

· 4.1 Description of first aid measures
  · After inhalation: Supply fresh air; consult doctor in case of complaints.
  · After skin contact: Generally the product does not irritate the skin.
  · After eye contact: Rinse opened eye for several minutes under running water.
  · After swallowing: If symptoms persist consult doctor.

· 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: Use fire extinguishing methods suitable to surrounding conditions.

· 5.2 Special hazards arising from the substance or mixture
  No further relevant information available.

· 5.3 Advice for firefighters
  · Protective equipment: Do not inhale explosion gases or combustion gases.

· 5.4 Additional information
  Product contains water and is non-combustible.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures
  Wear protective clothing.
  Ensure adequate ventilation

· 6.2 Environmental precautions:
  Dilute with plenty of water.
  Do not allow to enter sewers/surface or ground water.

· 6.3 Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· 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
  No special precautions are necessary if used correctly.

· 7.2 Conditions for safe storage, including any incompatibilities
  · Storage:
    · Requirements to be met by storerooms and receptacles: No special requirements.
    · Information about storage in one common storage facility: Not required.
    · Further information about storage conditions: Protect from frost.

(Contd. of page 1)

SVHC

- CAS: 556-67-2 Octamethylcyclotetrasiloxane
- CAS: 541-02-6 Decamethylcyclopentasiloxane

Additional information: For the wording of the listed hazard phrases refer to section 16.

(Contd. on page 3)
SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

• 8.1 Control parameters
  • Ingredients with limit values that require monitoring at the workplace:
    The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  • Additional information: The lists valid during the making were used as basis.

• 8.2 Exposure controls
  • Personal protective equipment:
    • General protective and hygienic measures: Wash hands before breaks and at the end of work.
    • Respiratory protection: Use suitable respiratory protective device only when aerosol or mist is formed.
  • Protection of hands:
    Only use chemical-protective gloves with CE-labelling of category III.
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    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
    Nitrile rubber, NBR
    Recommended thickness of the material: \( \geq 0.3 \) mm
    Neoprene 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
  • Penetration time of glove material
    For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).
    The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
    The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
  • Eye protection: Goggles recommended during refilling
  • Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties
  • General Information
    • Appearance:
      Form: Fluid
      Colour: White
      Odour: Cloudy
      Odour threshold: Mild
      Odour threshold: Not determined.
  • pH-value (20 g/l) at 20 °C:
    \( \approx 7 \) (DIN ISO 976)
Change in condition

- Melting point/freezing point: Undetermined.
- Initial boiling point and boiling range: ≈ 100 °C

- Flash point: >100 °C (DIN EN ISO 2719)
- Flammability (solid, gas): Not applicable.
- Ignition temperature: Not determined.
- Decomposition temperature: Not determined.
- Auto-ignition temperature: Product is not selfigniting.
- Explosive properties: Product does not present an explosion hazard.

- Explosion limits:
  - Lower: Not applicable
  - Upper: Not applicable
- Oxidising properties: None.
- Vapour pressure: Not determined.
- Density at 20 °C: ≈ 0.98 g/cm³ (DIN EN ISO 2811-1)
- Relative density: Not determined.
- Vapour density: Not determined.
- Evaporation rate: Not determined.
- Solubility in / Miscibility with water: Emulsifiable.
- Partition coefficient: n-octanol/water: Not determined.
- Viscosity:
  - Dynamic at 20 °C: ≈ 5000 mPas (DIN EN ISO 3219)
  - Kinematic: Not determined.
- Solvent separation test: ≤3%
- Solvent content:
  - Water: ≈ 70 %
- 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 and stored according to specifications.
- 10.3 Possibility of hazardous reactions: No dangerous reactions known.
- 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 dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
  - Acute toxicity: Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.

Safety data sheet

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

CAS: 541-02-6 Decamethylcyclopentasiloxane

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

General notes:
Respiratory or skin sensitisation

13.1 Waste treatment methods
Recommendation: Smaller quantities can be disposed of with household waste.

European waste catalogue
16 03 06 organic wastes other than those mentioned in 16 03 05

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.
Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity: No further relevant information available.
12.2 Persistence and degradability No further relevant information available.
12.3 Bioaccumulative potential No further relevant information available.
12.4 Mobility in soil No further relevant information available.
Ecotoxic effects:
Behaviour in sewage processing plants:
Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. Do not release untreated into natural waters.
Additional ecological information:
General notes:
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment -
PBT:
CAS: 556-67-2 Octamethylcyclotetrasiloxane
CAS: 541-02-6 Decamethylcyclopentasiloxane

vPvB:
CAS: 556-67-2 Octamethylcyclotetrasiloxane
CAS: 541-02-6 Decamethylcyclopentasiloxane

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation: Smaller quantities can be disposed of with household waste.

European waste catalogue
16 03 06 organic wastes other than those mentioned in 16 03 05

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.
Recommended cleansing agents: Water, if necessary together with cleansing agents.
### SECTION 14: Transport information

- **14.1 UN-Number**
  - ADR/RID/ADN, ADN, IMDG, IATA: Void

- **14.2 UN proper shipping name**
  - ADR/RID/ADN, ADN, IMDG, IATA: Void

- **14.3 Transport hazard class(es)**
  - ADR/RID/ADN, ADN, IMDG, IATA: Void

- **14.4 Packing group**
  - ADR/RID/ADN, ADN, IMDG, IATA: Void

- **14.5 Environmental hazards:**
  - Marine pollutant: No

- **14.6 Special precautions for user**
  - Not applicable.

- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
  - Not applicable.

- **Transport/Additional information:**
  - Not a dangerous good to the above specifications.

- **UN "Model Regulation":**
  - Void

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - Directive 2012/18/EU
  - Named dangerous substances - ANNEX I None of the ingredients is listed.

- **National regulations:**
  - Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

- **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.

- **Relevant phrases**
  - H226 Flammable liquid and vapour.
  - H361f Suspected of damaging fertility.
  - H413 May cause long lasting harmful effects to aquatic life.

- **Department issuing SDS:**
  - Product Safety Department
  - E-Mail: msds@munzing.com

- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport 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
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
Trade name: **AGITAN® 158**

PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 3: Flammable liquids – Category 3  
Repr. 2: Reproductive toxicity – Category 2  
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

* Data compared to the previous version altered.