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

1.1 Product identifier

Trade name: AGITAN® 160

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
Defoamers, Anti-foaming agent

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
MÜNZING CHEMIE GmbH
Münzingstrasse 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 as hazardous, 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

Additional information:

Contains Reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1). May produce an allergic reaction.
Safety data sheet available on request.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT:

CAS: 540-97-6 Dodecamethylcyclohexasiloxane
CAS: 541-02-6 Decamethylcyclopentasiloxane

vPvB:

CAS: 540-97-6 Dodecamethylcyclohexasiloxane
CAS: 541-02-6 Decamethylcyclopentasiloxane

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Emulsion of organomodified polysiloxanes

Dangerous components:

CAS: 540-97-6
EINECS: 208-762-8
Reg.nr.: 01-2119517435-42

Dodecamethylcyclohexasiloxane
Non-classified vPvB substance. <0,3%
Non-classified PBT substance.

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

4.1 Description of first aid measures
General information: Immediately remove any clothing soiled by the product.

- After inhalation:
  Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- After skin contact:
  Immediately wash with water and soap and rinse thoroughly.

- After eye contact:
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- 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:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.

- For safety reasons unsuitable extinguishing agents:
  Water with full jet

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.

Additional information
Product contains water and is non-combustible.
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 clothing.
Use respiratory protective device against the effects of fumes/dust/aerosol.

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.

(Contd. of page 3)
SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
  Keep away from heat and direct sunlight.
- Information about fire - and explosion protection:
  Protect from heat.

- 7.2 Conditions for safe storage, including any incompatibilities
  Storage:
  - Requirements to be met by storerooms and receptacles: Store in a cool location.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions:
    - Protect from frost.
    - Store in cool, dry conditions in well sealed receptacles.

- 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 item 7.
  - 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:
      The usual precautionary measures are to be adhered to when handling chemicals.
      Avoid contact with the eyes and skin.
      Do not inhale gases / fumes / aerosols.
    - 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.
      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: ≥ 0.4 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 16523-1:2015: Level 6).
      The determined penetration times according to EN 16523-1:2015 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.
Trade name: AGITAN® 160

52.0.9

· Eye protection: Safety glasses
· 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: Mild
      - Odour threshold:
· pH-value at 20 °C:
   ≈ 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:
     · Upper:
   · Oxidising properties
· Vapour pressure:
   Not determined.
· Density at 20 °C:
   ≈ 0,98 g/cm³ (DIN EN ISO 2811-1)
   · Relative density
   · Vapour density
   · Evaporation rate
· Solubility in / Miscibility with water:
   Emulsifiable.
· Partition coefficient: n-octanol/water:
   Not determined.
· Viscosity:
   · Dynamic at 20 °C:
     ≈ 1000 mPas (DIN EN ISO 3219)
· Solvent content:
   · Water:
     ≈ 75 %
· Other information
   No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity
   No further relevant information available.
52.0.9

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.

Primary irritant effect:

Skin corrosion/irritation
Based on available data, the classification criteria are not met.

Serious eye damage/irritation
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation
Based on available data, the classification criteria are not met.

Additional toxicological information:

CMR effects (carcinogenity, 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: 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 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment -

PBT:

<table>
<thead>
<tr>
<th>CAS</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
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vPvB:

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</tbody>
</table>

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.

European waste catalogue

16 03 05* organic wastes containing hazardous substances

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 Class Void

14.4 Packing group

ADR/RID/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.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
 None of the ingredients is listed.

National regulations:
 Information about limitation of use:
 Employment restrictions concerning juveniles must be observed.
 Employment restrictions concerning pregnant and lactating women must be observed.

Waterhazard class: Water hazard class 1 (German AwSV, Self-assessment): slightly hazardous for water.
Other regulations, limitations and prohibitive regulations

- **Substances of very high concern (SVHC) according to REACH, Article 57**

<table>
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- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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**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  
E-Mail: msds@munzing.com

**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
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative