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

1.1 Product identifier
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
   Münzingstrasse 2
   74232 Abstatt, Germany
   E-Mail: info@munzing.com
   Tel.: +49 7131 987-100

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
   Hazard pictograms Void
   Signal word Void
   Hazard statements Void

2.3 Other hazards
   Results of PBT and vPvB assessment
   PBT: None.
   vPvB: None.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
   Description: Polyalcoxyalted substances, native oils, hydrophobic silica
   Dangerous components: Void

SECTION 4: First aid measures

4.1 Description of first aid measures
   General information: No special measures required.
   After inhalation: Supply fresh air; consult doctor in case of complaints.
   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: Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed
   No further relevant information available.

(Contd. on page 2)
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.
- 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
  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: 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.
  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: Store away from oxidising agents.
  Further information about storage conditions: 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

- 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.
SECTION 9: Physical and chemical properties

- 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.
  - Respiratory protection: Use suitable respiratory protective device only when aerosol or mist is formed.
  - Protection of hands: Protective gloves
  - Material of gloves
    Nitrile rubber, NBR
    Recommended thickness of the material: ≥ 0.3 mm
    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.
  - Eye protection: Goggles recommended during refilling
  - Body protection: Protective work clothing

- 9.1 Information on basic physical and chemical properties
- General Information
  - Appearance:
    Form: Fluid
    Colour: Yellowish
    Odour: Mild
    Odour threshold: Not determined.
  - pH-value (20 g/l) at 20 °C: ≈ 7.5 (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.
  - 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: ≈ 1.0 g/cm³ (DIN EN ISO 2811-1)
  - Relative density: Not determined.
**Safety data sheet**

**according to 1907/2006/EC, Article 31**

**Trade name:** AGITAN® 271

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**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:** 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.

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**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.
  - **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.

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**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.
- **Ecotoxicological 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.

(Contd. of page 5)
Safety data sheet
according to 1907/2006/EC, Article 31


Trade name: AGITAN® 271

- 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
  According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification.
- 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.

<table>
<thead>
<tr>
<th>European waste catalogue</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 03 06 organic wastes other than those mentioned in 16 03 05</td>
</tr>
</tbody>
</table>

- 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.

- UN “Model Regulation”:
  - Void

(Contd. on page 6)
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 1 (German AwSV, Self-assessment): slightly 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.

- 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)
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative