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

1.1 Product identifier

Trade name: AGITAN® P 823

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): mds@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

Additional information:
Safety data sheet available on request.

2.3 Other hazards

Risk of dust explosion

Results of PBT and vPvB assessment

PBT: None.
vPvB: None.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description:
Mixture consisting of the following components.
hydrocarbons
polyglycol
amorphous silicic acid

Dangerous components:

<table>
<thead>
<tr>
<th>CAS</th>
<th>Description</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-52-5</td>
<td>Distillates (petroleum), hydrostreated heavy naphthenic</td>
<td>20-50%</td>
</tr>
<tr>
<td>Reg.nr.: 01-219467170-45</td>
<td>Asp. Tox. 1, H304</td>
<td></td>
</tr>
</tbody>
</table>

Additional information: For the wording of the listed hazard phrases refer to section 16.
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; 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. Then 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
- Formation of toxic gases is possible during heating or in case of fire.

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.
- Avoid formation of dust.
- 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: Pick up mechanically.

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
- Keep away from heat and direct sunlight.
- Prevent formation of dust.
- Ensure good ventilation/exhaustion at the workplace.

- Information about fire - and explosion protection:
  - Protect against electrostatic charges.
  - Keep ignition sources away - Do not smoke.
  - Dust can combine with air to form an explosive mixture.

(Contd. on page 3)
Recommended thickness of the material:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Penetration time of glove material

Material of gloves
Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.4 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 cannot 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: Tightly sealed goggles

Body protection: Protective work clothing

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:
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Do not inhale dust / smoke / mist.

Respiratory protection:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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
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 cannot 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: Tightly sealed goggles

Body protection: Protective work clothing

(Contd. on page 4)
**SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**
    - **Form:** Powder
    - **Colour:** White
    - **Odour:** Mild
    - **Odour threshold:** Not determined.
  - **pH-value (10 g/l) at 20 °C:** ≈ 7.5 (DIN ISO 976)
  - **Change in condition**
    - **Melting point/freeze point:** Undetermined.
    - **Initial boiling point and boiling range:** Undetermined.
  - **Flash point:** Not applicable.
  - **Flammability (solid, gas):** Product is not flammable.
  - **Ignition temperature:** Not determined.
  - **Decomposition temperature:** Not determined.
  - **Auto-ignition temperature:** Not determined.
  - **Explosive properties:** Product is not explosive. However, formation of explosive dust/vapour mixtures are possible.
  - **Explosion limits:**
    - **Lower:** Not determined.
    - **Upper:** Not determined.
  - **Oxidising properties:** None.
  - **Vapour pressure:** Not applicable.
  - **Density:**
    - **Bulk density at 20 °C:** ≈ 0.58 g/cm³ (DGF H-II 1b)
    - **Relative density:** Not determined.
    - **Vapour density:** Not applicable
    - **Evaporation rate:** Not applicable
  - **Solubility in / Miscibility with water:** Insoluble.
  - **Partition coefficient: n-octanol/water:** Not determined.
  - **Viscosity:**
    - **Dynamic:** Not applicable
    - **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** Risk of dust explosion.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials** No further relevant information available.
SECTION 11: Toxicological information

11.1 Information on toxicological effects

- **Acute toxicity**: Based on available data, the classification criteria are not met.

| CAS: 64742-52-5 Distillates (petroleum), hydrotreated heavy naphthenic |
|---------------------------|-----------------|-----------------|
| Oral                      | LD50 > 5,000 mg/kg (rat) |
| Dermal                    | LD50 > 5,000 mg/kg (rabbit) |

- **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**: (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**:

| CAS: 64742-52-5 Distillates (petroleum), hydrotreated heavy naphthenic |
|---------------------------|-----------------|-----------------|
| LL50                      | >100 mg/l (algae) |
| EL50                      | >100 mg/l (fish) |

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.

- **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 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.
  - 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.
### Trade name: AGITAN® P 823

- **Relevant phrases**
  
  H304 May be fatal if swallowed and enters airways.

- **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)

  LD50: Lethal dose, 50 percent

  LC50: Lethal concentration, 50 percent

  PBT: Persistent, Bioaccumulative and Toxic

  vPvB: very Persistent and very Bioaccumulative

  Asp. Tox. 1: Aspiration hazard – Category 1

(Contd. of page 6)