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

- **1.1 Product identifier**
  - Trade name: AGITAN® DF 6008

- **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**
  - Deoamers, 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, 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-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

  - Safety data sheet available on request.

- **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:**
    - Mixture of substances listed below with nonhazardous additions.
    - Hydrocarbons
    - Non-ionic emulsifiers

- **Dangerous components:**
  - CAS: 64742-36-9
  - EINECS: 265-159-2
  - Reg.nr.: 01-2119480132-48
  - Distillates (petroleum), solvent-dewaxed light paraffinic
    - Asp. Tox. 1, H304

  - Alcohols, C16-18 and C18-unsatd., ethoxylated
    - Aquatic Acute 1, H400; Skin Irrit. 2, H315; Aquatic Chronic 3, H412

  - 3-50%

  - 3-<5%

(Contd. on page 2)
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. 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.

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
  - Cool endangered receptacles with water spray.
  - Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6.1 Personal precautions, protective equipment and emergency procedures
- Wear protective clothing.
- Particular danger of slipping on leaked/spilled product.

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.

7.1 Precautions for safe handling
- Keep away from heat and direct sunlight.
- Prevent formation of aerosols.
- Information about fire - and explosion protection:
  - Protect from heat.
  - Keep ignition sources away - Do not smoke.

Additional information: For the wording of the listed hazard phrases refer to section 16.
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:
  | CAS: 64742-56-9 Distillates (petroleum), solvent-dewaxed light paraffinic |
  | ACGIH-TWA Long-term value: 5 mg/m³ mineral oil mist |

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

8.2 Exposure controls

- 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:
  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

- 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: Safety glasses
- 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: Fluid
    - Colour: White
    - Odour: Slight
    - Odour threshold: Not determined.
  - pH-value (20 g/l) at 20 °C: ≈ 9 (DIN ISO 976)
  - Change in condition
    - Melting point/freezing point: Undetermined.
    - Initial boiling point and boiling range: ≈ 100 °C
  - Flash point: Not applicable.
  - Flammability (solid, gas): Not applicable.
  - Decomposition temperature: Not determined.
  - Auto-ignition temperature: Product is not selfigniting.
  - Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
  - Explosion limits:
    - Lower: ≈ 1 Vol % (01-2119480132-48)
    - Upper: ≈ 10 Vol % (01-2119480132-48)
  - Oxidising properties: None.
  - Vapour pressure: Not determined.
  - Density at 20 °C: ≈ 0.92 g/cm³ (DIN EN ISO 2811-1)
  - Relative density: Not determined.
  - Vapour density: Not determined.
  - Evaporation rate: Not determined.
  - Solubility in / Miscibility with water: Insoluble.
  - Partition coefficient: n-octanol/water: Not determined.
  - Viscosity:
    - Dynamic at 20 °C: ≈ 150 mPas (DIN EN ISO 3219)
    - Kinematic at 40 °C: > 20.5 mm²/s (DIN EN ISO 51562)
  - Solvent content:
    - Water: ≈ 40 %
  - 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
  - Flammable vapour-air mixtures may develop if stored in large receptacles and above room temperature.
- 10.4 Conditions to avoid: 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.

- LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>CAS: 64742-56-9 Distillates (petroleum), solvent-dewaxed light paraffinic</th>
<th>Oral LD50 &gt;5,000 mg/kg (rat)</th>
<th>Dermal LD50 &gt;5,000 mg/kg (rabbit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohols, C16-18 and C18-unsatd., ethoxylated</td>
<td>Oral LD50 &gt;2,000 mg/kg (rat)</td>
<td></td>
</tr>
</tbody>
</table>

- Primary irritant effect:
  - Skin corrosion/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.

SECTION 12: Ecological information

12.1 Toxicity

- Aquatic toxicity:

<table>
<thead>
<tr>
<th>CAS: 64742-56-9 Distillates (petroleum), solvent-dewaxed light paraffinic</th>
<th>LL50 &gt;100 mg/l (daphnia)</th>
<th>EL50 &gt;100 mg/l (algae)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohols, C16-18 and C18-unsatd., ethoxylated</td>
<td>EC50 644 mg/l (bacteria) (OECD 209)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LC50 10-100 mg/l (fish) (OECD 203)</td>
<td></td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability: Moderately partly biodegradable
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:
    Due to available data on eliminability/decomposition and bioaccumulation potential a prolonged damage of the environment is unlikely.
  - According to the criteria of the EU-classification and labelling "dangerous for environment" (93/21/EWG) the substance/ the product has to be classified as non-hazardous for the environment.
Trade name: AGITAN® DF 6008

(Contd. of page 5)

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.

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 dangerous 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 Void
- 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.

(Contd. on page 7)
Abbreviations and acronyms:

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
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

* Data compared to the previous version altered.