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

1.1 Product identifier

Trade name: AGITAN® 703 N

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

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS09

Signal word Void

Hazard statements

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
P391 Collect spillage.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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:

hydrocarbons
hydrophobic silica acid
emulsifiers

(Contd. on page 2)
**Trade name:** AGITAN® 703 N

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- **Immediate actions:***
  - **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.

### 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

In case of fire, the following can be released:

- Carbon monoxide (CO)

#### 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:

- Inform respective authorities in case of seepage into water course or sewage system.
- 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.
SECTION 7: Handling and storage

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.

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

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.

DNELs

<table>
<thead>
<tr>
<th>CAS: 8042-47-5 White mineral oil (petroleum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral consumer, long-term exposure, systemic effects</td>
</tr>
<tr>
<td>Dermal worker, long-term exposure, systemic effects</td>
</tr>
<tr>
<td>Dermal consumer, long-term exposure, systemic effects</td>
</tr>
<tr>
<td>Inhalative worker, long-term exposure, systemic effects</td>
</tr>
<tr>
<td>Inhalative consumer, long-term exposure, systemic effects</td>
</tr>
</tbody>
</table>

CAS: 27458-92-0 Isotridecan-1-ol

| Oral consumer, long-term exposure, systemic effects | 2.1 mg/kg bw/day (human) |
| Dermal worker, long-term exposure, systemic effects | 6.94 mg/kg bw/day (human) |
| Dermal consumer, long-term exposure, systemic effects | 4.2 mg/kg bw/day (human) |
| Inhalative worker, long-term exposure, systemic effects | 24.5 mg/m³ (human) |
| Inhalative consumer, long-term exposure, systemic effects | 7.3 mg/m³ (human) |

PNECs

<table>
<thead>
<tr>
<th>CAS: 27458-92-0 Isotridecan-1-ol</th>
</tr>
</thead>
<tbody>
<tr>
<td>fresh water</td>
</tr>
<tr>
<td>marine water</td>
</tr>
<tr>
<td>aqua - intermittent release</td>
</tr>
<tr>
<td>soil</td>
</tr>
<tr>
<td>sediment (fresh water)</td>
</tr>
<tr>
<td>sediment (marine water)</td>
</tr>
<tr>
<td>sewage treatment plant</td>
</tr>
</tbody>
</table>
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.

Respiratory protection: Use suitable respiratory protective device only when aerosol or mist is formed.

Protection of hands:

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 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.

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: Fluid
Colour: Yellowish
Odour: Mild
Odour threshold: Not determined.

pH-value (20 g/l) at 20 °C: ≈ 8 (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 is not explosive. However, formation of explosive air/vapour mixtures are possible.

Explosion limits:

Lower: ≈ 1 Vol % (01-2119487078-27)
Upper: ≈ 10 Vol % (01-2119487078-27)

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:

Emulsifiable.

Partition coefficient: n-octanol/water:

Not determined.

Viscosity:

Dynamic at 20 °C: ≈ 250 mPas (DIN EN ISO 3219)
Kinematic at 40 °C: > 20.5 mm²/s (DIN EN ISO 51562)

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
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.

LD/LC50 values relevant for classification:

CAS: 8042-47-5 White mineral oil (petroleum)
Oral LD50 > 5000 mg/kg (rat)
Dermal LD50 > 5000 mg/kg (rabbit)

CAS: 27458-92-0 Isotridecan-1-ol
Oral LD50 > 2000 mg/kg (rat)
Dermal LD50 > 6000 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.
Additional toxicological information:

- 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:

- CAS: 8042-47-5 White mineral oil (petroleum)
  - LC50 >1000 mg/l (fish) (Leucicus idus / 96 h (OECD 203))
  - LL50 >100 mg/l (daphnia) (Daphnia magna / 48 h (OECD 202))
  - NOELR >100 mg/l (alga) (Pseudokirchnerella subcapitata / 72 h (OECD 201))

- CAS: 27458-92-0 Isotridecan-1-ol
  - EC50 (static) 0,297 mg/l (alga) (Desmodesmus subspicatus / 72 h (OECD 201))
  - 0,391 mg/l (daphnia) (Daphnia magna / 48 h (OECD 202))
  - LC50 0,55 mg/l (fish) (Brachydanio rerio / 96 h (OECD 203))
  - NOEC 0,0016-0,014 mg/l (daphnia) (Daphnia magna / 21 d (OECD 211))

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:

- Remark: Toxic for fish
- 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.
- Toxic for aquatic organisms

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.

- European waste catalogue: 07 06 08* other still bottoms and reaction residues
SECTION 14: Transport information

- **14.1 UN-Number**
  - ADR/RID/ADN, IMDG, IATA: UN3082

- **14.2 UN proper shipping name**
  - ADR/RID/ADN: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isotridecan-1-ol)
  - IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isotridecan-1-ol), MARINE POLLUTANT
  - IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isotridecan-1-ol)

- **14.3 Transport hazard class(es)**
  - ADR/RID/ADN, IMDG, IATA
  - Class: 9 Miscellaneous dangerous substances and articles.
  - Label: 9

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

- **14.5 Environmental hazards:**
  - Marine pollutant: Yes
  - Special marking (ADR/RID/ADN): Symbol (fish and tree)
  - Special marking (IATA): Symbol (fish and tree)

- **14.6 Special precautions for user**
  - Warning: Miscellaneous dangerous substances and articles.
  - Hazard identification number (Kemler code): 90
  - EMS Number: F-A,S-F
  - Stowage Category: A

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

- **Transport/Additional information:**
  - ADR/RID/ADN
    - Limited quantities (LQ): 5L
    - Transport category: 3
    - Tunnel restriction code: -
UN "Model Regulation": UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISOTRIDECA-N-1-OL), 9, III

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.
- Seveso category E2 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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.

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
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

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)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
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 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2