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
Münzingerstrasse 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:
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: consisting of the following components.
hydrocarbons
non-ionic emulsifiers

Dangerous components:

<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS</th>
<th>Regnr.</th>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-36-9</td>
<td>265-159-2</td>
<td>01-2119480132-48</td>
<td>Distillates (petroleum), solvent-de waxed light paraffinic</td>
<td>&gt;90%</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.
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
  Cool endangered receptacles with water spray.
  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.
  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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling
  Store in cool, dry place in tightly closed receptacles.
  Ensure good ventilation/exhaustion at the workplace.
  Prevent formation of aerosols.
· Information about fire - and explosion protection:
  Keep ignition sources away - Do not smoke.
  Protect from heat.
  Protect against electrostatic charges.

(Contd. on page 3)
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

- 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:

  - Oil resistant gloves
  - 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: ≥ 0.5 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 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: Tightly sealed goggles

- Body protection: Protective work clothing

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Safety data sheet
according to 1907/2006/EC, Article 31

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SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:** Fluid
  - **Colour:** Yellowish
  - **Odour:** Mineral-oil-like
  - **Odour threshold:** Not determined.
  - **pH-value (20 g/l) at 20 °C:** \( \approx 7 \) (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 is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Explosion limits:**
  - **Lower:** \( \approx 1 \) Vol % (01-2119480132-48)
  - **Upper:** \( \approx 10 \) Vol % (01-2119480132-48)
  - **Oxidising properties:** None.

- **Vapour pressure:** Not determined.

- **Density at 20 °C:** \( \approx 0.87 \) g/cm³ (DIN EN ISO 2811-1)

- **Relative density**
  - **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:** \( \approx 200 \) mPas (DIN EN ISO 3219)
  - **Kinematic at 40 °C:** > 20.5 mm²/s (DIN EN ISO 51562)

- **Solvent separation test:** Not determined

- **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 and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
  - Flammable vapour-air mixtures may develop if stored in large receptacles and above room temperature.

(Contd. on page 5)
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Can react violently with oxygen rich (oxidising) material. Danger of Explosion.

- **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.

<table>
<thead>
<tr>
<th>LD/LC₅₀ values relevant for classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAS: 64742-56-9 Distillates (petroleum), solvent-dewaxed light paraffinic</strong></td>
</tr>
<tr>
<td>Oral</td>
</tr>
<tr>
<td>Dermal</td>
</tr>
</tbody>
</table>

- **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.

### SECTION 12: Ecological information

- **12.1 Toxicity**
  - **Aquatic toxicity:**
    | **CAS: 64742-56-9 Distillates (petroleum), solvent-dewaxed light paraffinic** |
    | LL₅₀ >100 mg/l (daphnia) |
    | EL₅₀ >100 mg/l (alga) |
    | >100 mg/l (fish) |

- **12.2 Persistence and degradability**: A part of the components is heavily 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. 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.
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 06 organic wastes other than those mentioned in 16 03 05

• Uncleaned packaging:
  Recommendation: Disposal must be made according to official regulations.
  Recommended cleaning agents: Water, if necessary together with cleaning 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.
Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 17.12.2018 Version number 1 Revision: 25.09.2018

Trade name: AGITAN® DF 677

· 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.

· 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
Asp. Tox. 1: Aspiration hazard – Category 1