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

1.4 Emergency telephone number: +49 7131 987-100

Further information obtainable from:
Product Safety Department
E-mail (MSDS): msds@munzing.com

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
   PBT: None.
   vPvB: None.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
   Description: Mixture of substances listed below with nonhazardous additions.

   Dangerous components:

<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS</th>
<th>Reg.nr.</th>
<th>Description</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-55-8</td>
<td>265-158-7</td>
<td>01-2119487077-29</td>
<td>Distillates (petroleum), hydrotreated light paraffinic</td>
<td>75-100%</td>
</tr>
<tr>
<td>64742-63-8</td>
<td>265-156-6</td>
<td>01-2119480375-34</td>
<td>Distillates (petroleum), hydrotreated light naphthenic</td>
<td>5-&lt;10%</td>
</tr>
</tbody>
</table>

   SVHC None.
   Additional information: For the wording of the listed hazard phrases refer to section 16.

(Contd. on page 2)
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. 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
- Can form explosive gas-air mixtures.

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.
- Ensure adequate ventilation

6.2 Environmental precautions:
- In case of seepage into the ground inform responsible authorities.
- 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).
- Dispose of the material collected according to regulations.

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 aerosols.
- Ensure good ventilation/exhaustion at the workplace.

7.2 Information about fire - and explosion protection:
- Protect from heat.
8.1 Control parameters

- Additional information about design of technical facilities: No further data; see item 7.
- 8.1 Control parameters

<table>
<thead>
<tr>
<th>CAS: 64742-55-8 Distillates (petroleum), hydrotreated light paraffinic</th>
<th>ACGIH - TWA</th>
<th>Long-term value: 5 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>mineral oil mist</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 64742-53-6 Distillates (petroleum), hydrotreated light naphthenic</th>
<th>ACGIH-TWA</th>
<th>Long-term value: 5 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>oil mist</td>
<td></td>
<td></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.
    - Do not inhale gases / fumes / aerosols.
  - 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
    - 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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - Eye protection: Safety glasses

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

- **9.1 Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:** Fluid
  - **Colour:** Yellowish
  - **Odour:** Light
  - **Odour threshold:** Not determined.
  - **pH-value (20 g/l) at 20 °C:** ≈ 7 (DIN ISO 976)
  - **Change in condition**
    - **Melting point/freezing point:** Undetermined.
    - **Initial boiling point and boiling range:** Undetermined.
  - **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:** ≈ 0.6 Vol % (01-2119480132-48)
      - **Upper:** ≈ 6.5 Vol % (01-2119480132-48)
    - **Oxidising properties:** None.
  - **Vapour pressure:** Not determined.
  - **Density at 20 °C:** ≈ 0.87 g/cm³ (DIN EN ISO 2811-1)
  - **Relative density:** Not determined.
  - **Vapour density:** Not determined.
  - **Evaporation rate:** Not determined.
  - **Solubility in / Miscibility with water:** Dispersible.
  - **Partition coefficient: n-octanol/water:** Not determined.
  - **Viscosity:**
    - **Dynamic at 20 °C:** ≈ 500 mPas (DIN EN ISO 3219)
    - **Kinematic at 40 °C:** > 20.5 mm²/s (DIN EN ISO 51562)

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.


**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
  - **Acute toxicity** Based on available data, the classification criteria are not met.

| CAS: 64742-55-8 Distillates (petroleum), hydrotreated light paraffinic | Oral LD50 >5,000 mg/kg (rat) |
| Dermal LD50 >5,000 mg/kg (rabbit) |
| CAS: 64742-53-6 Distillates (petroleum), hydrotreated light 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 (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:**
    | CAS: 64742-53-6 Distillates (petroleum), hydrotreated light naphthenic |
    | LL50 >100 mg/l (alga) |
    | >100 mg/l (daphnia) |

- **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.

**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"(93/88/EC) 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.

(Contd. on page 6)
Disposal must be made according to official regulations.

Recommendation

National regulations:

Recommended cleansing agents:

according to 1907/2006/EC, Article 31

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2 Directive 2012/18/EU

15.3 Named dangerous substances - ANNEX I None of the ingredients is listed.

15.4 National regulations:

Waterhazard class: Water hazard class 1 (German AwSV, Self-assessment): slightly hazardous for water.
**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
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- Asp. Tox. 1: Aspiration hazard – Category 1

* Data compared to the previous version altered.