

Safety Data Sheet Page 1 of 7 according to 91/155/EWG, § 14 GefStoffV, TRGS 220

Print Date: 23.11.09

Revision Date: 06.04.09

Trade name: SynOil M10.120.08

1. Identification of the substance/preparation and company/undertaking:

Product details

Supplier:

Peter HUBER Kältemaschinenbau GmbH
Werner-von-Siemens-Str. 1
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Tel.: +49 (0)781/9603-0 Fax: +49 (0)781/57211

Emergency telephone: during worktime: +49 (0) 7665/2003
Beyond worktime: +49 (0) 551/192 40 for medical advice
+49 (0) 208 762 9322 in case of transport incidents and other
emergencies

2. Composition / information on ingredients

Chemical characterization: 1-Decene, dimer, hydrogenated
Substance / product identification: CAS no. 68649-11-6

3. Hazards identification

Classification:

Xn;R65 Harmful: may cause lung damage if swallowed
Xn; R20 Harmful by inhalation

Hazard symbols:

Xn Harmful

R phrases:

20 Harmful by inhalation
65 Harmful: may cause lung damage if swallowed

4. First aid measures

General information:

In case of persisting adverse effects consult a physician. Change out of contaminated, saturated clothing.

After inhalation:

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing:
artificial respiration. Summon a doctor immediately.

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After skin contact:

When in contact with the skin, clean with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

After eye contact:

Separate eyelids, wash the eyes thoroughly with water (15 min.).

After ingestion:

Do not induce vomiting - aspiration hazard. Summon a doctor immediately. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

Suitable extinguishing media: Carbon dioxide; Foam; Dry chemical extinguisher; Water mist

Extinguishing media that must not be used for safety reasons: Full water jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: In the event of fire, the following can be released:
Carbon monoxide (CO)

Special protective equipment for fire-fighters: Use self-contained breathing apparatus. Wear protective clothing.

Other information: Cool endangered containers with water spray jet.

6. Accidental release measures:

Personal precautions: Refer to protective measures listed in sections 7 and 8.
Use breathing apparatus if exposed to vapours/dust/aerosol.
High risk of slipping due to leakage/spillage of product.

Environmental precautions: Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil.

Methods for cleaning up/taking up: Take up with absorbent material (e.g., sand, kieselguhr, universal binder). When picked up, treat material as prescribed under heading "Disposal considerations".

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7. Handling and storage:

Handling

Advice on safe handling: Provide good ventilation of working area (local exhaust ventilation if necessary).

Advice on protection

against fire and explosion: Keep away from sources of heat and ignition.

Storage

Requirements for storage rooms and vessels:

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

Advice on storage assembly:

Do not store together with: Oxidizing agents

Further information on

Storage conditions:

Keep container tightly closed and dry in a cool, well-ventilated place. Do not store in open or unlabelled container.

8. Exposure controls / personal protection:

Exposure limit values: NONE

Personal protective equipment:

Respiratory protection:

If workplace exposure limits are exceeded, a respirations protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Hand protection:

In case of intensive contact wear protective gloves (EN 374). Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Eye protection:

Safety glasses with the side protection shield (EN 166)

Skin protection:

Clothing as usual in the chemical industry

General protective and hygiene measures:

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Wash hands before breaks and after work.

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9. Physical and chemical properties:

General information:

Form: liquid
Colour: colourless
Odour: mild

Important health, safety and environmental information

Changes in physical state

Type: Pourpoint
Value: -66°C
Type: Boiling point
Value: 310°C

Flash point

Value: 125°C
Method: ASTM D 93

Vapour pressure

Value: < 0,013 kPa
Reference temperature: 20°C

Density

Value: 0,80 g/cm³
Reference temperature: 15°C

Viscosity

Type: kinematic
Value: 5,2 cSt
Reference temperature: 40°C
Type: kinematic
Value: 1,7 cSt
Reference temperature: 100°C

Solubility in water

Remarks: slightly soluble

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10. Stability and reactivity

Materials to avoid: Oxidizing agents
Hazardous decomposition products: No hazardous decomposition products known.
Thermal decomposition
Remarks: No decomposition if used as prescribed

11. Toxicological information

Acute toxicity

Acute oral toxicity: LD50 > 2000 mg/kg
Species: rat

Acute dermal toxicity: LD50 > 2000 mg/kg
Species: rabbit

Acute inhalational toxicity: LC50 3800 mg/m³
Species: rat

Experience in practice: In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation. Inhalation of vapours from the heated product can cause irritation of the respiratory tract and the eyes. Eye contact with the product may cause slight irritation.

Other information (chapter 11.): The toxicological data given have been assessed by analogy and/or refer to the main ingredient(s) of this product.

12. Ecological information

Ecotoxicity

Fish toxicity: LC50 > 5006 ppm
Species: minnow
Duration of exposure: 96 h

Persistence and degradability

Biodegradability: Value: 49,5 % (water)
Duration of exposure: 28 day(s)
Evaluation: Potentially biologically degradable (inherently biodegradable)

Other adverse effects: Do not discharge product unmonitored into the environment. The data given have been assessed by analogy and/or refer to the main ingredient(s) of this product.

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13. Disposal considerations

- Product:** Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.
- Packaging:** Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal.
Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

14. Transport information

- Other information (chapter 14.):** The product is not defined under national/international road, rail, sea and air transport regulations as a hazardous material.

15. Regulatory information

- Labelling in accordance with EC directives:** The product is classified and labelled in accordance with EC Directive 67/548/EC.
1-Decene, dimer, hydrogenated
- Hazard symbols:** Xn – Harmful
- Hazardous component(s) to be indicated on label, contains:** 1-Decene, dimer, hydrogenated
- R phrases:** 20 – Harmful by Inhalation
65 – Harmful: may cause lung damage if swallowed
- S phrases:** 62 – If swallowed, do not induce vomiting: seek medical advice immediately and Show this container or label.
- Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances:**
Remarks: Annex I, part 1 + 2: not mentioned. With regard to possibly appropriate decomposition products see Chapter 10.

National regulations

National chemical inventories:

- | | |
|-------------------------|-------------------|
| EINECS/ELINCS | |
| (European Communities): | components listed |
| TSCA (USA): | components listed |
| DSL/NDSL (Canada): | components listed |
| MITI/ENCS (Japan): | components listed |
| ECL (Corea): | components listed |
| AICS (Australia): | components listed |
| IECSC/NEPA (China): | components listed |
| PICCS (Philippines): | components listed |

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16. Other information

Sources of key data used to compile the data sheet:

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.

Regulation (EC) No. 1907/2006 (REACH) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC as amended in each case.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

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