

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 27.05.2014

Version: 1. 1

Revision: 27.05.2014

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

· **1.1 Product identifier**

- Trade name: **TL 011**
- Project-No.: **PK_0006_M**

· **1.2 Relevant identified uses of the substance or mixture and uses advised against:**

- **Uses advised against:** -
- **Application of the substance / the preparation:** Operating fluid / lubricant for vacuum pumps

· **1.3 Details of the supplier of the safety data sheet**

- **Supplier/Manufacturer:**
PFEIFFER VACUUM GmbH
Berliner Strasse 43
D-35614 Asslar
Telefon ++49 6441/1802-0
Telefax ++49 6441/1802-202
www.pfeiffer-vacuum.net
Email: info@pfeiffer-vacuum.com
- **Email competent person:** sds@kft.de

- **Information department:** See supplier/manufacturer

· **1.4 Emergency telephone number:**

National Poisons Information Service (NPIS)
24 hour national number is 0844 892 0111 professionals only

National Health Service (NHS)
24 hour national number is 0845 4647 consumer

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.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** not applicable
- **Classification system:**
The classification complies with current legislation, but is supplemented with information from technical literature and company information.

· **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void

· **2.3 Other hazards**

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

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SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterization: Mixtures**

· **Description:** Full synthetic lubricant on ester basis

· **Dangerous components:** Void

· **Non dangerous components:**

90-95% Neopolyolester

5-10% Additives

· **Additional information:** This mixture does not contain notifiable substances meeting the criteria of Annex II (3.2) of REACH.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:** If symptoms persist or in case of doubt, seek medical advice.

· **After inhalation:** Supply fresh air; consult a doctor in case of pain.

· **After skin contact:**

Wash with water and soap.

If symptoms persist, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water.

First check the victim for contact lenses and remove if present.

If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse mouth with water.

Do not induce vomiting.

If symptoms persist, consult doctor.

· **4.2 Most important symptoms and effects, both acute and delayed**

After contact with vapours:

Irritant effect on the respiratory tract

After skin contact:

Reddened skin

Vesiculation

Itching

On eyes:

Irritation of eyes and mucous membrane

Nausea

Vomiting

· **4.3 Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment

* SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire fighting measures that suit the environment.

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- **For safety reasons unsuitable extinguishing agents:** High volume water jet
- **5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

- Noxious gases/vapours
- Irritant gases/vapours
- Carbon monoxide (CO)
- Carbon dioxide (CO₂)

- **5.3 Advice for firefighters**

- **Protective equipment:**

Wear self-contained respiratory protective device.
Wear a fully protective suit.

- **Additional information:**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

* SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**



Wear protective equipment. Keep unprotected persons away.

- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.

- **6.3 Methods and material for containment and cleaning up:**

Dam up larger quantities and pump into containers.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Make sure to recycle or dispose of in suitable receptacles.

- **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**

Wash hands after use.
Avoid contact with eyes and skin.

- **Information about protection against explosions and fires:**

Use only in explosion protected area.
Protect against electrostatic charges.
Observe the general rules of industrial fire protection.

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· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store container tightly sealed at a cool and dry place with sufficient ventilation.

Store in original container.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from feed.

Refer to national regulations for storing hazardous chemicals.

· **Further information about storage conditions:** None

· **Storage class:** 10-13 other combustible and non-combustible substances

· **7.3 Specific end use(s)** No further relevant information available

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see section 7.

· **8.1 Control parameters**

· **Components 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.

· **Additional information:** The lists that were valid during the creation were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures should be adhered to when handling chemicals.

Do not eat or drink while working.

Wash hands before breaks and at the end of work.

Immediately remove soiled, soaked clothing and use again only after washing.

· **Breathing equipment:**

Not necessary if room is well-ventilated

If vapors form, use suitable respiratory protective device.

· **Protection of hands:**

Chemical resistant gloves (EN 374)

The glove material has to be impermeable and resistant to the product/substance/preparation.

Due to missing tests no recommendation to the glove material can be given for the product / preparation / chemical mixture.

Selection of the glove material in consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves:**

The selection of suitable gloves depends upon the material, and also upon the quality of the gloves. The degree of protection will vary 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:**

The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Safety glasses with side shields

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information:

Appearance:

| | |
|------------------------------|-------------------|
| Form: | Liquid |
| Colour: | No data available |
| Odour: | No data available |
| Odour threshold: | Not determined |
| pH-value: | Not determined |
| Change in condition: | |
| Melting point/Melting range: | -60 °C |
| Boiling point/Boiling range: | Not determined |

| | |
|--------------------------------|----------------|
| Flash point: | 220 °C |
| Flammability (solid, gaseous): | Not applicable |
| Ignition temperature: | Not determined |
| Decomposition temperature: | Not determined |
| Self ignition temperature: | Not determined |
| Danger of explosion: | Not determined |

| | |
|--------------------------|----------------|
| Explosion limits: | |
| Lower: | Not determined |
| Upper: | Not determined |

| | |
|-----------------------|----------------|
| Oxidizing properties: | Not determined |
| Vapour pressure: | Not determined |
| Density at 20 °C: | 0.947 kg/l |
| 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: | Not determined |
| kinematic at 40 °C: | 10.5 mm ² /s |

9.2 Other information No further relevant information available

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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** No dangerous reactions known
- **10.4 Conditions to avoid** Heat
- **10.5 Incompatible materials:** Strong oxidants
- **10.6 Hazardous decomposition products:**
No hazardous decomposition products if instructions for storage and handling are followed

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** No toxicity data are available for the product itself.
- **Primary irritant effect:**
- **on the skin:** Not to be classified
- **on the eye:** Not to be classified
- **On respiratory tract:** No data available
- **Sensitization:** No sensitizing effects known
- **Other information (about experimental toxicology):**
- **Carcinogenic, mutagenic effects and adverse effects on reproduction:**
Presently available data show no carcinogenic, mutagenic or teratogenic effects.
- **Subacute to chronic toxicity:**
- **STOT-single exposure** No classification
- **STOT-repeated exposure:** No classification
- **Aspiration hazard** No classification

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available
- **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:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous to water
According to appendix 4 of VwVwS dated 27.7.2005 (German regulation)
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

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· **12.6 Other adverse effects** No further relevant information available

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation:** Disposal according to instructions of local authorities

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN-Number**

· ADR, ADN, IMDG, IATA Void

· **14.2 UN proper shipping name**

· ADR, ADN, IMDG, IATA Void

· **14.3 Transport hazard class(es)**

· ADR, ADN

· Class Void

· IMDG, IATA

· Class Void
No hazardous good according to the regulation

· **14.4 Packing group**

· ADR, 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 MARPOL73/78 and the IBC Code**

Not applicable

· UN "Model Regulation":

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water
- **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.

- **Reasons for amendments:** General revision
- **Replaces version dated:** 18.07.2013
- **Department issuing MSDS:**
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Im Leuschnerpark. 3 64347 Griesheim
Postfach 1451 64345 Griesheim
Germany
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- **Contact:** Angela Ersöz
- **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)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized 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
- **Sources:** MSDS of the supplier
- *** Data compared to the previous version altered.**
Changes have been made to sections marked with a *, as compared to the previous version.