

## SYNTHESO LM 220

Version 2.0

Revision Date 30.11.2015

Print Date 30.11.2015

### 1. Identification of the substance/mixture and of the company/undertaking

#### Product information

Product name : SYNTHESO LM 220

Article-No. : 012074

Use of the Substance/Mixture : Grease

Company : KLÜBER LUBRICATION MÜNCHEN  
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Material Compliance Management

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Emergency telephone number : +49 89 7876 700 (24 hrs)

### 2. Hazards identification

#### GHS Classification

**Not a hazardous substance or mixture.**

#### GHS-Labeling

Not a hazardous substance or mixture.

### 3. Composition/information on ingredients

Chemical nature : silicone oil  
PTFE

No hazardous ingredients

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### 4. First aid measures

- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.  
Keep patient warm and at rest.  
If unconscious place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off immediately with soap and plenty of water.  
Get medical attention immediately if irritation develops and persists.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.  
If eye irritation persists, consult a specialist.
- If swallowed : Move the victim to fresh air.  
If unconscious place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
Do not induce vomiting without medical advice.  
Never give anything by mouth to an unconscious person.

#### Notes to physician

- Symptoms : No information available.
- Risks : None known.
- Treatment : No information available.

### 5. Firefighting measures

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet  
: High volume water jet
- Specific hazards during firefighting : Fire may cause evolution of:  
Carbon oxides

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	Halogenated compounds Metal oxides Nitrogen oxides (NO <sub>x</sub> )
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. In the case of respirable dust and/or fumes, use self-contained breathing apparatus. Exposure to decomposition products may be a hazard to health.
Further information	: Standard procedure for chemical fires.

### 6. Accidental release measures

Personal precautions	: Evacuate personnel to safe areas. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Avoid breathing dust. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	: Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.
Methods for cleaning up	: Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.

### 7. Handling and storage

#### Handling

Advice on safe handling	: Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Wash hands and face before breaks and immediately after handling the product. Do not get in eyes or mouth or on skin. Do not get on skin or clothing. Do not ingest. Do not repack. These safety instructions also apply to empty packaging which may still contain product residues. Keep container closed when not in use.
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#### Storage

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Requirements for storage areas and containers : Store in original container.  
Keep container closed when not in use.  
Keep in a dry, cool and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Store in accordance with the particular national regulations.  
Keep in properly labelled containers.

### 8. Exposure controls/personal protection

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Engineering measures

Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

Respiratory protection : Not required; except in case of aerosol formation.  
Filter type P

Hand protection : For prolonged or repeated contact use protective gloves.  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.  
The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.  
In case of contact through splashing:  
: Nitrile rubber  
Manufacturer, importer, supplier: Class 1

Eye protection : Tightly fitting safety goggles  
Safety glasses with side-shields conforming to EN166

Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.  
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

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### 9. Physical and chemical properties

#### Appearance

Form : paste  
Colour : white  
Odour : characteristic

#### Safety data

Flash point : Note: Not applicable  
Ignition temperature : Remarks: No data available  
Lower explosion limit : Note: No data available  
Upper explosion limit : Note: No data available  
Flammability (solid, gas) : Combustible Solids  
Oxidizing properties : Note: No data available  
Auto-ignition temperature : Note: No data available  
pH : Note: No data available  
Melting point/range : Note: No data available  
Boiling point/boiling range : Note: No data available  
Sublimation point : Note: No data available  
Vapour pressure : < 0,001 hPa  
at 20 °C  
Density : 1,27 g/cm<sup>3</sup>  
at 20 °C  
Bulk density : Note: No data available  
Water solubility : Note: insoluble  
Partition coefficient: n-  
octanol/water : Note: No data available  
Solubility in other solvents : Note: No data available  
Viscosity, dynamic : Note: No data available  
Viscosity, kinematic : Note: No data available

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Relative vapour density : Note: No data available

Evaporation rate : Note: No data available

### 10. Stability and reactivity

Conditions to avoid : No conditions to be specially mentioned.

Materials to avoid : No materials to be especially mentioned.

Hazardous decomposition products : > 150°C small quantities of formaldehyde may be formed.  
> 180°C small quantities of benzene may be formed.  
> 280°C danger of forming toxic pyrolysis products.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Acute oral toxicity : Remarks: This information is not available.

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Remarks: This information is not available.

#### Skin corrosion/irritation

Skin irritation : Remarks: This information is not available.

#### Serious eye damage/eye irritation

Eye irritation : Remarks: This information is not available.

#### Respiratory or skin sensitisation

Sensitisation : Remarks: This information is not available.

#### Germ cell mutagenicity

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

#### Target Organ Systemic Toxicant - Repeated exposure

: This information is not available.

#### Aspiration hazard

Aspiration toxicity : This information is not available.

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Further information : Information given is based on data on the components and the toxicology of similar products.

### 12. Ecological information

#### Ecotoxicity effects

Toxicity to fish :  
Remarks:  
No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks:  
No data available

Toxicity to algae : Remarks:  
No data available

Toxicity to bacteria : Remarks:  
No data available

#### Elimination information (persistence and degradability)

Bioaccumulation : Remarks:  
This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).  
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Mobility : Remarks:  
No data available

Distribution among environmental compartments : Remarks:  
No data available

Biodegradability : Remarks:  
No data available

Physico-chemical removability : Remarks:  
No data available

#### Further information on ecology

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Additional ecological information : No information on ecology is available.

### 13. Disposal considerations

Product : The product should not be allowed to enter drains, water courses or the soil.

Contaminated packaging : Empty containers can be landfilled, when in accordance with the local regulations.

### 14. Transport information

#### ADR

Not dangerous goods

#### IATA

Not dangerous goods

#### IMDG

Not dangerous goods

### 15. Regulatory information

### 16. Other information

#### Further information

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