

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

Printing date: 29.11.2011

Version: 1

Revision: 29.11.2011

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

1.1 Product identifier

· Trade name: **medium chain triglycerides**

· CAS Number:

73398-61-5

· EC number:

277-452-2

· Registration number: 01-2119492306-35-0004

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

· Uses advised against: None of the identified uses is advised against.

· Application of the substance / the preparation:

Basic raw material for the chemical industry

Cosmetic raw material

1.3 Details of the supplier of the safety data sheet

· Supplier/Manufacturer:

Prignitzer Chemie GmbH & Co. KG

Zur Hafenspitze 15

D-19322 Wittenberge

Tel.: +49-3877-92066

Fax: +49-3877-920689

info@prignitzer-chemie.de

· Email competent person: sonja.fischer@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

2 Hazards identification

2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008 The substance is not classified according to the CLP regulation.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC not applicable

· Information concerning particular hazards for human and environment:

According to current European laws and regulations the product is not dangerous or toxic material (based on the available data).

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: Substance characteristics do not meet screening criteria.

· vPvB: Substance characteristics do not meet screening criteria.

3 Composition/information on ingredients

3.1 Chemical characterization: Substances

· CAS No. Description:

73398-61-5 Glycerides, mixed decanoyl and octanoyl

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- Identification number(s):
- EC number: 277-452-2

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 skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
If symptoms persist, consult a doctor.
- **After swallowing:**
Drink plenty of water, but never give anything to an unconscious person.
Induce vomiting only if affected person is fully conscious.
If symptoms persist, consult doctor.
- **Information for doctor:**
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** Symptomatic treatment

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.
- **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:
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.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **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:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Clean the affected area carefully; suitable cleaners are:
Warm water and cleansing agent
Make sure to recycle or dispose of in suitable receptacles.
- **6.4 Reference to other sections**
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **7.1 Precautions for safe handling**
 - Ensure good ventilation/exhaustion at the workplace.
 - Avoid contact with eyes and skin.
 - Avoid inhalation of vapours.
 - Keep away from heat and direct sunlight.
- **Information about protection against explosions and fires:** Observe the general rules of industrial fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store at ambient temperature.
- **Information about storage in one common storage facility:**
 - Store away from foodstuffs.
 - Store away from feed.
 - Store away from oxidizing agents.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Storage class:** 10 Combustible liquids
- **7.3 Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **DNELs**
 - Abbreviations:
 - In = Industrial
 - Prof = Professional
 - Cons = Consumer
 - LLE = Long term, local effects
 - LSE = Long term, systemic effects
 - SLE = Short term, local effects
 - SSE = Short term, systemic effects
- **73398-61-5 Glycerides, mixed decanoyl and octanoyl**
 - Oral DNEL/Cons/LSE 12.61 mg/kg bw/day (Human)
 - Dermal DNEL/Cons/LSE 12.61 mg/kg bw/day (Human)
 - DNEL/In/LSE 25.21 mg/kg bw/day (Human)
 - Inhalative DNEL/Cons/LSE 43.84 mg/m³ (Human)
 - DNEL/In/LSE 177.79 mg/m³ (Human)
- **PNECs**
 - Since the substance has no potential for bioaccumulation no PNEC oral was derived.
 - No long term toxicity to aquatic organisms expected. Therefore no derivation of PNEC.
- **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.
 - Wash hands before breaks and at the end of work.
 - Do not inhale gases / fumes / aerosols.

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- **Breathing equipment:** If vapors form, use suitable respiratory protective device
- **Protection of hands:**
Upon longer contact:
Chemical resistant gloves
- **Material of 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.
- **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
- **Body protection:** Protective work clothing.

9 Physical and chemical properties

· 9.1 Information on basic physical and chemical properties	
· General Information:	
· Appearance:	
Form:	Liquid
Colour:	Colourless Yellowish
· Odour:	Odourless
· Odour threshold:	not applicable
· pH-value:	not applicable
· Change in condition:	
Melting point/Melting range:	< -5°C
Boiling point/Boiling range:	> 300°C Decomposition is likely
Cloud point / clarification point:	-10°C
· Flash point:	250°C (1013hPa)
· Ignition temperature:	425°C
· Decomposition temperature:	> 300°C
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	not applicable
Upper:	not applicable
· Oxidizing properties:	None.
· Vapour pressure at 20°C:	< 0.001 Pa ((Q)SAR)
· Density at 20°C:	945-949 g/l
· Dissociation constant pKa	Not applicable
· Solubility in / Miscibility with Water at 20°C:	< 1 mg/l
· Segregation coefficient (n-octanol/water):	8,2-10,9 ((Q)SAR)
· Viscosity:	
dynamic at 20°C:	30 mPas
kinematic:	Not determined.
Surface tension:	Not determined

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· **9.2 Other information** No further relevant information available.

10 Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Strong oxidants
- **10.6 Hazardous decomposition products:**
No hazardous decomposition products; if instructions for storage and handling are followed.

11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
73398-61-5 Glycerides, mixed decanoyl and octanoyl
Oral LD₅₀ > 5000 mg/kg (mouse)
Dermal LD₅₀ > 2000 mg/kg (rat)
RA from 91845-19-1
Inhalative LC₅₀/6h 1.86 mg/l (rat)
max. attainable conc.
- **Primary irritant effect:**
- **on the skin:** Skin irritation test (rabbit): no irritation
- **on the eye:** Animal tests show no irritating effect.
- **On respiratory tract:** No data available.
- **Sensitization:**
No sensitization species: guinea pig OECD 406
in analogy to similar products
- **Other information (about experimental toxicology):**
Ames-test: negative
Mutagenicity (mammalian cell test): chromosomes aberration negative (OECD 473)
Micronucleus Test: mouse: negative (OECD 474)
RA from 8001-79-4
- **Carcinogenic, mutagenic effects and adverse effects on reproduction:**
Carcinogenicity: no information available
73398-61-5 Glycerides, mixed decanoyl and octanoyl
Oral NOAEL (P) 5000 mg/kg bw/day (rat)
RA from 8001-79-4
1000 mg/kg bw/day (rat/female)
RA from 91052-13-0
NOAEL(developmental) 1000 mg/kg bw/day (rat)
RA from 91052-13-0
NOAEL(developmental) of 4280 mg/kg bw/d upon i.v. appl. (RA from MCT)
- **Subacute to chronic toxicity:**
- **STOT-single exposure** No classification
- **STOT-repeated exposure:** No classification
- **Aspiration hazard** No classification

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· **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

· **Repeated dose toxicity:**

73398-61-5 Glycerides, mixed decanoyl and octanoyl

Oral NOAEL 5000 mg/kg bw/d (rat)
90d
RA from 8001-79-4

12 Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

73398-61-5 Glycerides, mixed decanoyl and octanoyl

EC₅₀/48h (static) > 0.01 mg/l (daphnia magna) (EU Method C.2)
no effect up to limit of WS
RA from 65381-09-1

EC₅₀/72h (static) > 0.45 mg/l (des) (EU Method C.3)

LC₀ ≥ 53 mg/l (danio rerio) (EU Method C.1)
96h
fresh water
no effect up to limit of WS

NOEC (static) ≥ 0.45 mg/l (des) (EU Method C.3)

NOEC/21d ≥ 0.01 mg/l (daphnia magna) (OECD 202 Part II (OECD 211))
no effect up to limit of WS
RA from 65381-09-1

· **12.2 Persistence and degradability** Easily biodegradable

· **Other information:** Biological degradation: 92.7 % after 28 days

· **Behaviour in environmental systems:**

· **12.3 Bioaccumulative potential** Potential for bioconcentration in aquatic organisms is low.

· **12.4 Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:** Not hazardous to water according to VwVwS (German regulation) appendix 1 dated 27.7.2005

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Substance characteristics do not meet screening criteria.

· **vPvB:** Substance characteristics do not meet screening criteria.

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

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.

14 Transport information

· **14.1 UN-Number**

· **ADR, ADN, IMDG, IATA**

Void

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· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 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":	-

15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Water hazard class:**
Not hazardous for water
Code No. according to catalog of water endangering substances: 760
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

- **Department issuing MSDS:**
KFT Chemieservice GmbH
Im Leuschnerpark. 3 D-64347 Griesheim
Postfach 1451 D-64345 Griesheim
- Phone: +49 6155 86829-0 Fax: +49 6155 86829-25
Safety Data Sheet Service: +49 6155 86829-22
- **Contact:** Dr. Sonja Fischer
- **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
ICAO: International Civil Aviation Organization
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
- **Sources:** Chemical Safety Report
- *** Data compared to the previous version altered.**
Changes have been made to chapters marked with a *, as compared to the previous version.