

	Material safety data sheet According to EU Regulation 1907/2006 in the current version	Masterarticle: 83200
	SAFFLOWER OIL	Version: 20.03.2013 substitutes Version: 17.05.2011 Date: 11.11.2013

1 Identification of the substance/preparation and trade name

Trade name: SAFFLOWER OIL
Chemical Name:
Registration No.: Not necessary. See EU-regulation 987/2008 Annex II (acc. to EU-VO 1907/2006)
Utilization: Technical applications

Company identification:

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(only during opening times)

2 Hazards Identification

Classification according to EU 1272/2008:	Labelling according to EU regulation 1272/2008 (GHS-Labelling)
Not classified as a hazardous substance.	Signal word: None Pictograms: None Hazard phrases: None Safety phrases: None Other hazards: None
Classification according to EU 67/548:	Labelling according to EU regulation 67/548
Not classified as a hazardous substance.	Hazard Symbol: None Risk phrases: None Safety phrases: None

3 Composition / Information on ingredients

This product is a substance

Composition:

Identification	CAS-No.	EU-No.	Classification	%
CARTHAMUS TINCTORIUS OIL	8001-23-8	232-276-5	Classification according to EU 1272/2008: Not classified as a hazardous substance Classification according to EU 67/548: Not classified as a hazardous substance.	100%

4 First Aid

Generally:	None
First aid after Inhalation:	None
First aid after Skin contact:	Clean skin with water and soap.
First aid after Eye contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
First aid after Ingestion:	None
Most important symptoms and effects, both acute and delayed	No symptoms known.
Indication of any immediate medical attention and special treatment needed	None

5 Fire-fighting Measures

Suitable extinguishing media	Foam, dry chemical powder, carbon dioxide.
Unsuitable extinguishing media:	Do not use direct water jet on burning material.
Special hazards arising from	This product is made up of inflammable material with low risk. The product

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the substance or mixture	may only form ignitable mixtures or burn only upon heating above the flash point. However, minor contamination by lightly volatile hydrocarbons may increase the hazard. Ignition hazard at welding at the empty container. Dangerous combustion residues: smoke, carbon monoxide, carbon dioxide
Advice for firefighters	In the case of fire: Use respirator.

6 Accidental release measures:	
Personal precautions:	Remove sources of ignition, provide adequate ventilation, avoid contact with skin and eye contact
Land spill:	Shut off source. Prevent product from entering sewerage, water courses or low lying areas. Take measures to reduce or prevent effects on ground water. Gather product mechanically if possible. Bind remainings of the product with sand or other appropriate absorbent and remove. Dispose of product and contaminated absorbents in suitable containers, as directed in section 13.
Water spill:	Confine the spill immediately with booms. Warn other ships. Notify port and other relevant authorities. Remove from the surface by skimming or with suitable absorbents. In running waters, apply appropriate dispersants in accordance with local regulation.

7 Handling and Storage	
Precautions for safe handling	Keep containers leak proof closed and dry. Protect against sun/light. Prevent spills and leakages to avoid slip hazard.
Conditions for safe storage, including any incompatibilities	Intrusion into soil to be avoided. Store the product in cool (max. at room temperature) and well-ventilated environment and keep away from sources of ignition. Provide suitable mechanical equipment for the safe handling of drums and heavy packages. Electrical equipment and fittings must comply with local regulations.

8 Exposure Controls and Personal Protection	
Control parameters	None
Personal protection	
Respiratory:	No special measures required
Hand protection:	No special measures required
Eye protection:	No special measures required
Physical protection:	No special measures required

9 Physical and Chemical Properties	
Appearance/odour:	Clear, light yellow liquid with neutral odour
Odour threshold:	Not available
pH-value:	Not available.
Melting point / freezing point	Not available.
Initial boiling point and boiling range	>350
Flash point:	>200
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure;	Not available.
Vapour density;	Not available.
Relative density;	0.92 at 20°C
Solubility(ies);	Soluble in oil and ethanol
Partition coefficient: n-octanol/water;	Not available.
Auto-ignition temperature;	Not available.
Decomposition temperature;	Not available.
Viscosity;	Not available.
Explosive properties;	Not available.
Oxidising properties.	Not available.

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10 Stability and Reactivity	
Reactivity	Oxidation with atmospheric oxygen. Formation of free fatty acids.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Reacts with oxidants.
Conditions to avoid:	Keep away from heat sources, open flames and sunlight.
Substances to avoid:	Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen.
Hazardous decomposition products:	Product does not decompose at proper handling.

11 Toxicological Information	
Acute toxicity:	In compliance with generally accepted uses and quantities are no negative impacts to be expected. LD50 oral: not determined LD50 dermal: not determined LC50: not determined Inhalation: There is not expected negative impact.. Ingestion: There is not expected negative impact.. Skin contact: There is not expected negative impact.. Eye contact: There is not expected negative impact.
skin corrosion/irritation;	In compliance with generally accepted uses and quantities are no negative impacts to be expected.
serious eye damage/irritation;	In compliance with generally accepted uses and quantities are no negative impacts to be expected.
respiratory or skin sensitization;	In compliance with generally accepted uses and quantities are no negative impacts to be expected.
germ cell mutagenicity;	There is not expected negative impact.
carcinogenicity;	There is not expected negative impact.
reproductive toxicity;	There is not expected negative impact.
STOT-single exposure;	No information available
STOT-repeated exposure;	No information available
aspiration hazard.	No information available

12 Ecological Information	
Toxicity:	No information available
Persistence and degradability:	Biologically well degradable
Bioaccumulation potential:	possible
Mobility in soil	No information available
PBT characteristics:	No information available
Other harmful effects:	No information available
Water hazardous class according to german regulation "was-sergefährdende Stoffe (VwVwS)"	WGK 1

13 Disposal Considerations	
Recommendation:	Collect and dispose of waste product at an authorised disposal facility. Product remainders should not intrude in soil or waters.

14 Transport Information	
UN-Number	Not available
UN proper shipping name	ADR / RID: not available IMDG-Code: not available ICAO-TI: not available
Transport hazard class(es)	Not available
Packing group	Not available
Environmental hazards	Labeling of environmentally hazardous substances: ADR / RID / IMDG-Code: no ICAO-TI / IATA-DGR: no
Special precautions for user	See section 6-8

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not defined
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15 Additional Regulatory Information

Assessment of material safety: An assessment has not been executed.

16 Other Information

Disclaimer

The data and recommendations given in this material safety data sheet are compiled from test data (if available) and further documentation. The data and recommendations refer only to the designated product, as far as it is not brought together with other materials or processed with. The statements correspond to our knowledge and experiences at the indicated time. However, no warranty for correctness and completeness is given. Therefore, it is the user's responsibility to satisfy himself as to the suitability and completeness of such information for this own particular use.

Changes in this document:

- 10.06.2010 General update for the new EU-regulation 1272/2008
- 24.09.2010 Minor editorial changes and removal of R36
- 17.05.2011 Change of the water hazard class and removing of labelling according to 548/67
- 20.03.2013 General Update