

Safety Data Sheet

according to GHS 3rd Revision, Annex IV

Printing date 22.03.2011

Version number 2

Revision: 16.03.2011

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

· Product identifier**· Trade name: PALMERA A5518****· Description:** Stearic Acid 55%**· CAS Number:**

67701-03-5

· EINECS Number:

266-928-5

· Relevant identified uses of the substance or mixture and uses advised against**· Application of the substance / the preparation**

Additive

Biocide

Chemical intermediate

Tanning agents

Lubricant

Intermediate

Laboratory chemicals

· Details of the supplier of the safety data sheet**· Manufacturer/Supplier:**

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2 Hazards identification

- **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:** Not applicable.

- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**
67701-03-5 Fatty acids, C16-18
- **Identification number(s)**
- **EINECS Number:** 266-928-5
- **Additional information:**
The product is not classified as hazardous to health or environment according to the CLP regulation.

4 First aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters** Avoid breathing dust/fume/gas/mist/vapours/spray.
- **Protective equipment:** In case of insufficient ventilation, wear suitable respiratory equipment.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **Methods and material for containment and cleaning up:**
Dispose of the material collected according to regulations.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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- **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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Keep away from heat and direct sunlight.
- **Information about fire - and explosion protection:**
- Keep ignition sources away - Do not smoke.
- Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**
- Keep container tightly sealed.
- Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **DNELs**
- Long-term.

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Dermal	DNEL	10,0 mg/kg bw/d (workers)
Inhalative	DNEL	17,632 mg/m ³ (workers)

- **PNECs** Not required.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
- The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **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 break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
- Form: Solid
- Colour: White
- **Odour:** Light
- **Odour threshold:** Not determined.

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· pH-value:	Not applicable.
· Change in condition	
Melting point/Melting range:	53 - 63°C
Boiling point/Boiling range:	> 200°C
· Flash point:	ca 180°C (Cleaveland Open Cup)
· Flammability (solid, gaseous):	Product is not flammable (EU method A.10.)
· Ignition temperature:	350°C
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure at 25°C:	5,06E-5 hPa
· Density at 20°C:	0,84 - 0,90 g/cm ³
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water at 20°C:	5E-5 g/L
· Segregation coefficient (n-octanol/water):	7,05 - 8,23 log Pow
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 70°C:	12 mm ² /s (ASTM D445)

10 Stability and reactivity

- **Reactivity**
- **Chemical stability** Stable at environment temperature.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** See Section 7 for information on safe handling.
- **Incompatible materials:** See Section 7 for information on safe handling.
- **Hazardous decomposition products:**
 - Irritant gases/vapours
 - Carbon monoxide and carbon dioxide

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

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Oral	LD50	> 5000 mg/kg bw (rat) (OECD 401)
Dermal	LD50	> 2000 mg/kg bw (rabbit) (OECD 434)
Inhalative	LC50 (4h)	> 0,1521 mg/L (rat) (Inhalation Risk Test)

- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects 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.

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- **Repeated dose toxicity**

CAS # 112-85-6 (C22)

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Oral NOAEL (subchronic) 1000 mg/kg bw/d (rat) (OECD 422)
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- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Carcinogenicity: No further relevant information available.

Mutagenicity: Negative

Toxicity to reproduction: No further relevant information available.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

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LC50 (48h) (static) > 1000 mg/L (fish) (DIN 38412/15)

- **Persistence and degradability**

Easily biodegradable

CAS # 143-67-7 (C12):

BCF = 225 L/kg

- **Behaviour in environmental systems:**

- **Bioaccumulative potential** Does not accumulate in organisms

- **Mobility in soil**

CAS # 57-10-3 (C16); Koc 13,230

CAS # 57-11-4 (C18); Koc 51,050

- **Additional ecological information:**

- **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**

- **PBT:** No

- **vPvB:** No

- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation** Must be specially treated adhering to official regulations.

- **Uncleaned packaging:**

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

14 Transport information

- **Land transport ADR/RID (cross-border)**

- **ADR/RID class:** -

- **UN-Number:**

- **Packaging group:** -

- **Maritime transport IMDG:**

- **IMDG Class:** -

- **UN Number:** -

- **Packaging group:** -

- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** -

- **Packaging group:** -

- **UN "Model Regulation":** -

- **Special precautions for user** Not applicable.

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- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
Product name: Fatty acids, C16+
Pollution category: Y
Ship type: 2

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**
Country Substance Listing:
USA (TSCA), Canada (DSL), Europe (EINECS), SWISS, China(IECSC), Korea (ECL), Japan (ENCS), New Zealand (NZIOC) and Australia (AICS)
- **Chemical safety assessment:** A Chemical Safety Assessment has 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.

- **Abbreviations and acronyms:**

BCF: Bioconcentration Factor
NOAEL: No Observed Adverse Effect Level
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
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
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**

Official Journal of the European Union Regulation (EC) No 1907/2006
Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Third Revised Edition.
Official Journal of the European Union Regulation (EC) No 1272/2008
Official Journal of the European Union Commission Regulation (EU) No 453/2010
IMO (2008). IMDG Code International Maritime Dangerous Goods Code. Incorporating Amendment 34-08. 2008 Edition, Volume 1 & 2.
IMO (2007). IBC Code 2007 Edition.
KLK Emmerich GmbH (2010). Chemical Safety Report of Fatty acids, C16-18

- *** Data compared to the previous version altered.**

Rev. 1 (11 Mar 2011)

New issuance

Rev. 2 (16-Mar-2011)

Update on the following section:

- 1 - Add emergency telephone number for Palm-Oleo Sdn Bhd & Taiko Palm-Oleo (Zhangjiagang).
- 3 - Include not classified as hazardous statement under sub-heading "Additional information".
- 9 - Add calculated approximately (ca) for flash point value.

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