



According to 93/112/EEC (ISO 11014)

Not classified as hazardous according to criteria of Worksafe Australia

Material Safety Data Sheet**1 Product and company identification**

Commercial name	: SYM-ST 4931
Product name	: Stearic acid
Chemical name	:
CAS No.	: 57-11-4
EINECS No.	: 2003134
MITI No.	: 2-608
Company	: Symex Holdings Limited 14 Woodruff Street, Port Melbourne, 3207 Australia
Telefax	: 61 (0) 3 9645 3001
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2 Composition/information on Ingredients

	: Saturated straight chain aliphatic monocarboxylic acids, mainly palmitic and stearic acid.
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3 Hazards identification

Health hazards	
Inhalation	: Not applicable at ambient temperature. Vapour from heated product can cause irritation.
Skin contact	: Unlikely to be irritant.
Eye contact	: Can cause irritation.
Ingestion	: Unlikely to be harmful unless excessive amount swallowed.
Physical/chemical hazards	: Risk of dust explosion.
Environmental hazards	: None identified

4 First-aid measures

Inhalation	: Remove to fresh air.
Skin contact	: Wash with plenty of water and soap.
Eye contact	: Wash well with water without delay and obtain medical attention if any sensations persist.
Ingestion	: Remove material from mouth. Drink plenty of water. If large amount swallowed or symptoms develop obtain medical attention.

5 Fire-fighting measures

Extinguishing media	: Water (mist), foam, dry powder, carbon dioxide.
Unsuitable extinguishing media	: None
Specific hazards	: None
Special protective equipment	: Protective clothing and self-contained breathing equipment should be available for firemen.

6 Accidental release measures

Personal precautions	:	No special precautions required.
Environmental precautions	:	Minimise contamination of drains, surface and ground waters.
Methods for cleaning up	:	Transfer product to suitably labelled containers for disposal at an approved site. Residues and small spillages may be washed away with water and detergent.

7 Handling and storage

Handling	:	No special precautions necessary. Prevent formation of dust.
Storage	:	Store in the original closed containers under dry conditions. Avoid extremes of temperatures.

8 Exposure controls/personal protection

General precautions	:	Good industrial hygiene should be followed. Avoid breathing heated vapours.
Ventilation	:	Adequate ventilation should be maintained when handling heated product.
Occupational exposure limits	:	Not established
Personal protective equipment	:	Normal precautions should be observed as for handling all chemicals.

9 Physical and chemical properties

Form/Colour/Odour	:	Solid/White/Faint
pH	:	Not applicable
Boiling point (10 mbar)	:	205-225 °C
Solidification point	:	55 °C approx.
Flash point (COC)	:	180 °C approx.
Autoignition temperature	:	350 °C approx.
Explosive/Oxidizing properties	:	Not to be expected
Vapour pressure (20 °C)	:	<1 mbar
Density (75 °C)	:	850 kg/m ³ approx.
Solubility	:	Insoluble in water (20 °C). Soluble in many organic solvents.
Partition coefficient (log Pow) (estimated)	:	>3
Viscosity (65 °C)	:	10 mPa.s approx.

10 Stability and reactivity

Stability	:	Stable under normal conditions.
Conditions to avoid	:	-
Materials to avoid	:	Strong oxidizing agents.
Hazardous decomposition products	:	Not to be expected.
Hazardous polymerization	:	Will not occur.

11 Toxicological information

LD₅₀ oral, rat : >2 g/kg
 Skin and eye irritation, rabbit : Non irritant
 Skin sensitization : No sensitization reactions

12 Ecological Information

Degradability : Readily biodegradable (OECD classification)
 LC₀, fish : >100 mg/l
 EC₀, bacteria : >100 mg/l
 (Pseudomonas putida)

13 Disposal considerations

Waste disposal method : Recycle where possible. Incinerate according to local regulations.
 Contaminated packaging : Observe local regulations.

14 Transport information

: Not classified in RID/ADR/DOT - ADNR - IMDG - ICAO/IATA-DGR

15 Regulatory information

EEC classification : Not dangerous within the meaning of Directive 67/548/EEC.
 Inventory status : Listed on EINECS (EC), TSCA-CSI (USA), DSL (Canada), AICS (Australia) and MITI (Japan).
 Water endangering class : 0 - not water endangering

16 Other information

Literature references : Acute toxicity and irritation studies on a series of fatty acids.
 J. Am. Oil Chem. Soc., 56(1979), p. 760A-
 : Final report of the safety assessment for oleic acid, lauric acid, palmitic acid, myristic acid, stearic acid. CTFA, 1987.

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To the best of our knowledge, the information contained in this sheet is correct. However, we cannot accept responsibility or liability for any consequences arising from its use.