

Material Safety Data Sheet

Date Printed: 31/JUL/2007
Date Updated: 18/MAY/2006
Version 1.6
Regulation (EC) No 1907/2006

1 - Product and Company Information

Product Name STEARIC ACID, STANDARD FOR GC
Product Number 85679
Company Sigma-Aldrich Pte Ltd
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Singapore
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2 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT
Irritating to skin.

3 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I Index Number
STEARIC ACID	57-11-4	200-313-4	None

Formula C18H36O2
Molecular Weight 284.48 AMU
Synonyms Century 1240 * Cetylacetic acid * Dar-chem 14 *
Emersol 120 * Emersol 132 * Emersol 150 *
Formula 300 * Glycon DP * Glycon S-70 * Glycon
S-80 * Glycon S-90 * Glycon TP * Groco 54 *
Groco 55 * Groco 55L * Groco 58 * Groco 59 *
Hydrofol acid 1655 * Hydrofol acid 1855 *
Hydrofol 1895 * 1-Heptadecanecarboxylic acid *
HY-Phi 1199 * HY-Phi 1205 * HY-Phi 1303 * HY-Phi
1401 * Hystrene 80 * Hystrene 4516 * Hystrene
5016 * Hystrene 7018 * Hystrene 9718 *
Industrene 5016 * Industrene 8718 * Industrene
9018 * KAM 1000 * KAM 2000 * KAM 3000 * Neo-fat
18 * Neo-fat 18-S * Neo-fat 18-53 * Neo-fat
18-54 * Neo-fat 18-55 * Neo-fat 18-59 * Neo-fat
18-61 * Octadecanoic acid * n-Octadecanoic acid
* Pearl stearic * Stearex beads * Stearic acid
(ACGIH) * Stearophanic acid * Tegostearic 254 *
Tegostearic 255 * Tegostearic 272

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give
artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious

amounts of water.

AFTER EYE CONTACT

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

EXPLOSION DATA

Dust Potential: This material, like most materials in powder form, is capable of creating a dust explosion.

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

Hand Protection: Compatible chemical-resistant gloves.
Eye Protection: Chemical safety goggles.

9 - Physical and Chemical Properties

Appearance	Physical State: Solid	
Property	Value	At Temperature or Pressure
pH	N/A	
BP/BP Range	361 °C	760 mmHg
MP/MP Range	69 °C	
Flash Point	113 °C	Method: closed cup
Flammability	N/A	
Autoignition Temp	N/A	
Oxidizing Properties	N/A	
Explosive Properties	N/A	
Explosion Limits	N/A	
Vapor Pressure	1 mmHg	173.7 °C
SG/Density	0.845 g/cm ³	
Partition Coefficient	N/A	
Viscosity	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
Evaporation Rate	N/A	
Bulk Density	N/A	
Decomposition Temp.	N/A	
Solvent Content	N/A	
Water Content	N/A	
Surface Tension	N/A	
Conductivity	N/A	
Miscellaneous Data	N/A	
Solubility	N/A	

10 - Stability and Reactivity

STABILITY

Stable: Stable.

Materials to Avoid: Bases, Oxidizing agents, Reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

11 - Toxicological Information

RTECS NUMBER: WI2800000

ACUTE TOXICITY

LD50

Oral

Rat

> 2,000 mg/kg

LD50

Intravenous

Rat

21500 UG/KG

Remarks: Lungs, Thorax, or Respiration: Other changes.

Behavioral: Convulsions or effect on seizure threshold.

LD50
Intravenous
Mouse
23 MG/KG
Remarks: Lungs, Thorax, or Respiration:Other changes.
Behavioral:Convulsions or effect on seizure threshold.

LD50
Skin
Rabbit
> 5000 mg/kg

IRRITATION DATA

Skin
Human
75 mg
3D
I
Remarks: Mild irritation effect

Skin
Rabbit
500 mg
24H
Remarks: Moderate irritation effect

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: May cause eye irritation.
Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
Ingestion: May be harmful if swallowed.

CHRONIC EXPOSURE - CARCINOGEN

Mouse
Route of Application: Implant
Result: Kidney, Ureter, Bladder:Tumors. Tumorigenic:Equivocal
tumorigenic agent by RTECS criteria.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14 - Transport Information

RID/ADR

Non-hazardous for road transport.

IMDG

Non-hazardous for sea transport.

IATA

Non-hazardous for air transport.

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: Xi

Irritant.

R-PHRASES: 38

Irritating to skin.

COUNTRY SPECIFIC INFORMATION

Germany

WGK: No hazard to waters.

ID-Number: 661

KBwS-Decision

NORWAY

Declaration Number: 68041

16 - Other Information

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2007 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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