

SAFETY DATA SHEET

1. IDENTIFICATION

Product name: Stearic acid

CAS No. : 57-11-4

Brand: Macklin

Company: Shanghai Macklin Biochemical Co.,Ltd.

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2. HAZARDS IDENTIFICATION

GHS classification

PHYSICAL HAZARDS

no data available

HEALTH HAZARDS

no data available

ENVIRONMENTAL HAZARDS

Not classified

GHS label elements, including precautionary statements

Pictograms or hazard symbols

Signal word

no data available

Hazard statements

no data available

Precautionary statements

Prevention

no data available

Response

no data available

Storage

no data available

Disposal

no data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components:Stearic acid

CAS No.:57-11-4

Chemical Formula:C₁₈H₃₆O₂

4. FIRST AID MEASURES

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Get medical advice/attention if you feel unwell.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Get medical advice/attention if you feel unwell. Rinse mouth.

Most important Cough, Laboured breathing, Constipation, Redness, Pain symptoms/effects, acute

and delayed:

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing Dry chemical, foam, water spray, carbon dioxide.
media:

Precautions for firefighters: Fire-extinguishing work is done from the windward and the suitable fire-extinguishing

method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

Special protective When extinguishing fire, be sure to wear personal protective equipment.
equipment for firefighters:

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, Use personal protective equipment. Keep people away from and upwind of spill/leak.

protective equipment and Entry to non-involved personnel should be controlled around the leakage area by

emergency procedures: roping off, etc.

Environmental precautions: Prevent product from entering drains.

Methods and materials for Sweep dust to collect it into an airtight container, taking care not to disperse it.

containment and cleaning Adhered or collected material should be promptly disposed of, in accordance with

up: appropriate laws and regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures: Handling is performed in a well ventilated place. Wear suitable protective equipment.

Prevent dispersion of dust. Wash hands and face thoroughly after handling.

Use a local exhaust if dust or aerosol will be generated.

Advice on safe handling: Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool and dark place.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust as possible so that workers should not be

exposed directly. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection: Dust respirator. Follow local and national regulations.

Hand protection: Protective gloves.

Eye protection: Safety glasses. A face-shield, if the situation requires.

Skin and body protection: Protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid

Form: Crystal- Powder

Colour: White

Odour: Slight Tallow-like

pH: No data available

Melting point/freezing point: 70°C

Boiling point/range: 240°C/2.1kPa

Flash point: No data available

Flammability or explosive

limits:

Lower: No data available

Upper: No data available

Vapour pressure: 133Pa/174°C

Vapour density: 9.80

Relative density: No data available

Solubility(ies):

[Water] Insoluble (0.568mg/L, 25°C)

[Other solvents]

Very soluble: Ether

Soluble: Benzene, Chloroform, Toluene, Carbon tetrachloride, Carbon disulfide

Slightly soluble: Alcohols, Acetone

Log Pow: 8.23

Autoignition temperature: 395°C

10. STABILITY AND REACTIVITY

Chemical stability: Stable under proper conditions.

Possibility of hazardous No special reactivity has been reported.

reactions:

Incompatible materials: Oxidizing agents, Bases, Reducing agents

Hazardous decomposition Carbon monoxide, Carbon dioxide

products:

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: ivn-mus LD50:23 mg/kg

ivn-rat LD50:21500 ug/kg

orl-rat LDLo:4640 mg/kg

skn-rbt LD50:>5 g/kg

Skin corrosion/irritation: skn-hmn 75 mg/3D-I MLD

skn-rbt 500 mg/24H MOD

Serious eye No data available

damage/irritation:

Germ cell mutagenicity: No data available

Carcinogenicity: imp-mus TDLo:400 mg/kg

IARC = No data available

NTP = No data available

Reproductive toxicity: No data available

RTECS Number: WI2800000

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: No data available

Crustacea: No data available

Algae: No data available

Persistence / degradability: No data available

Bioaccumulative 1100000

potential(BCF):
Mobility in soil
Log Pow: 8.23
Soil adsorption (Koc): 7.2×10^5

Henry's Law 4.9×10^{-2}
constant(PaM³/mol):

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system.
Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

14.1

UN Number

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

14.2

UN Proper Shipping Name

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

14.3

Transport hazard class(es)

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

14.4

Packing group, if applicable

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

14.5

Environmental hazards

ADR/RID: Yes

IMDG: Yes

IATA: Yes

14.6

Special precautions for user

Not dangerous goods.

14.7

Transport in bulk according to IMO instruments

Not dangerous goods.

15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16, 2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

16. OTHER INFORMATION

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the

laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.