GHS Safety Data Sheet

Sorbitan Mono Stearate

1. PRODUCT AND COMPANY IDENTIFICATION

- **Product Identification**

Product Name: Sorbitan Mono Stearate

Recommended use of the chemical and restriction on use

Recommended use*	: Emulsifier
Suitable for use in industrial sector	: Chemical Industry

The 'recommended use' identified for this product is provided solely to comply with a US Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the sellers sales agreement.

- **Other Means of Identification:**
  Synonyms: Sorbitan monostearate

GHS Safety Data Sheet

Sorbitan Mono Stearate

2. HAZARD IDENTIFICATION

According to regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

- **GHS Classification**
  - Physical Hazards:
    Causes eye irritation.
    May Cause skin irritation
    May cause respiratory track irritation.
    May be harmful if swallowed.

  - Health Hazards:
    No health hazards according to OSHA/GHS criteria

  - Environmental Hazards:
    No environmental hazards according to OSHA/GHS Criteria.

- **GHS label Elements, including precautionary statements**
  - Pictogram:



  - Signal word: Danger

  - Hazard Statements:
    H315 : Causes skin irritation
    H401 : Toxic to aquatic life.
  - Precautionary Statements (Prevention):
    P280 : Wear protective gloves
    P273 : Avoid release to the environment.
    P264 : Wash with plenty of water and soap thoroughly after handling.

GHS Safety Data Sheet

Sorbitan Mono Stearate

- Precautionary Statement (Response):
  P303 + P352 : If on skin (or hair): Wash with plenty of soap and water.
  P332 + P313 : If skin irritation occurs: Get medical advice/ attention.
  P362 + P364 : Take off contaminated clothing and wash before reuse.
- Precautionary Statements (Disposal):
  P501 : Dispose of contents/ container to hazardous or special waste collection point.

- Hazards not otherwise classified
  Labeling of special preparations (GHS):
  The following percentage of the mixture consists of the component (s) with unknown hazards regarding the acute toxicity: 100% dermal.

  The following percentage of the mixture consists of the component (s) with unknown hazards regarding the acute toxicity: 100% inhalation – vapour.

  The following percentage of the mixture consists of the component (s) with unknown hazards regarding the acute toxicity: 100% inhalation – mist.

According to regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

- **Emergency Overview**
  CAUTION:
  May cause eye, skin and respiratory tract irritation.
  Ingestion may cause Gastric disturbances.
  Use with local exhaust ventilation.
  Wear a NIOSH – certified (or equivalent) organic vapour/ particular respirator.
  Wear NIOSH – certified chemical goggles.
  Wear protective clothing.
  Wear chemical resistant protective gloves.
  Eye wash fountains and safety showers must be easily accessible.
  NO PARTICULAR HAZARD KNOWN.

GHS Safety Data Sheet

Sorbitan Mono Stearate

---

3. COMPOSITION/INFORMATION ON INGREDIENTS

According to regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

According to regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

- **Composition**
  Sorbitan monostearate

- **CAS Number**
  1338 – 41 – 6

4. FIRST – AID MEASURES

Descriptive first aid measures:

- **General advise:**
  Remove contaminated clothing.
- **Inhaled:**
  If difficulties occur after vapours/ aerosol has been inhaled, move to fresh air and seek medical attention.
- **Skin contact:**
  Wash affected areas thoroughly with soap and water. Remove contaminated clothing. If irritation develops, seek medical attention.
- **Eye contact:**
  Rinse eyes for at least 15 minutes under running water with eyelids wide open.
- **Ingestion:**
  Rinse mouth and then drink plenty of water.
- **Most important symptoms and effects, both acute and delayed.**
  Symptoms: No significant symptoms are expected due to the non – classification of the product.
- **Indication of any immediate medical attention and special treatment needed Note to Physician:**
  Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

GHS Safety Data Sheet

Sorbitan Mono Stearate

---

5. FIRE – FIGHTING MEASURES

- **Suitable Extinguishing Media:**
  Water spray, dry Powder or foam.

- **Unsuitable Extinguishing Media:**
  Water jet

- **Protective Equipment for Fire - fighting:**
  Fire fighters should be equipped with self-contained breathing apparatus and turn out gear.

- **Additional Information:**
  Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions**
  Use personal protective equipment. Information regarding personal protective equipment see section 8.

- **Environmental Precautions**
  Do not discharge into drains/ surface water/ ground water.

- **Methods and material for containment and cleaning - up**
  Dispose of absorbed material in accordance with regulations.

  Small spill and leak:
  Dilute with water and mob up or absorb with absorbent material (e.g. sand, silica gel acid binder, general purpose binder, sawdust). Finish cleaning by spreading water on contaminated surface.

Large spill and leak:

Pick up with suitable adsorbent material or vacuum up spilled product. Place into suitable container for disposal. Finish cleaning by spreading water on contaminated surface.

7. HANDLING AND STORAGE

- **Precautions of safe handling**

  No special measures are necessary provided the product is handled in accordance with good industrial hygiene and safety practice.
  Protection against fire an explosion: No special precautions are necessary.

- **Conditions for safe storage, including any incompatibilities**

  Segregate from acids and bases. Segregate from oxidising agents.

  Other Information on storage conditions: Keep container tightly closed and dry. Store in a cool and well-ventilated area.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- **Advise on system design:**

  Provide local exhaust ventilation to control vapours/ mists.

- **Personal Protective Equipment**

  Respiratory Protection:
  Wear respiratory protection if ventilation is inadequate. Breathing protection if breathable aerosols/ dust are formed.
  Hand protection:
  Chemical resistance protective gloves.
  Eye protection:
  Tightly fitting safety goggles (chemical goggles) and face shield.
  General safety and hygiene measures:
  Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Wear protective clothing as necessary to minimise contact.

GHS Safety Data Sheet

Sorbitan Mono Stearate

9. PHYSICAL AND CHEMICAL PROPERTIES:

- Form : Solid (Flakes)
- Odour : Slight Characteristic
- Odour threshold : N/D
- Colour : Creamish
- Solubility in water : Insoluble
- Viscosity @ 25°C in mPas : N/D
- Specific gravity @25°C : N/D
- pH (5% aq.) : N/D
- Melting Point : 57°C
- Vapour pressure : N/D
- Auto ignition temperature : N/D
- Vapour Density (Air = 1) : N/D
- Freezing point : N/D
- Decomposition Temperature : N/D
- Flash Point : > 100°C
- Flammability : N/D

10. STABILITY AND REACTIVITY

- **Hazardous Reactions**

  No hazardous reactions when stored and handled according to the instructions. The product is chemically stable.

- **Decomposition Products**

  Hazardous decomposition Products: No hazardous decomposition products if stored and handled as prescribed or indicated.

- **Thermal Decomposition**

  No data available.

- **Corrosion of metals**

  No corrosion effect on metals.

GHS Safety Data Sheet

Sorbitan Mono Stearate

---

11. TOXICOLOGICAL INFORMATION

Primary routes exposure:
Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

- **Acute Toxicity**

  Oral:
  Test Type: LD50
  Species: Rat
  Value: > 31000 mg/kg

- **Irritation/ Corrosion**

  Assessment of irritating effects: Skin contact causes irritation.
  Skin
  Species: Rabbit
  Result: Moderately Irritating

  Eye
  Species: rabbit
  Result: non - irritant

- **Chronic Toxicity/ Effects:**
  Repeated dose toxicity
  Assessment of repeated dose toxicity: no known chronic effects.

  The product has not been tested. The statement has been derived from products of a similar structure or composition.

- **Symptoms of exposure :**
  The most important known symptoms and effects are described in the labelling (see section 2) and / or in section 11.
  Medical conditions aggravated by overexposure. Data available do not indicate that there are medical conditions that are generally recognised as being aggravated by exposure to this substance/ product.

GHS Safety Data Sheet

Sorbitan Mono Stearate

12. ECOLOGICAL INFORMATION

- **Toxicity**
  Species: Fish
  Test type: LC50
  Results: 1 – 10mg/l (96 h)

- **Aquatic invertebrates**
  Species: Daphnia magna
  Test type: EC50
  Results: 1 – 10mg/l (48 h)

- **Microorganism/ effect on activated sludge**
  Toxicity to microorganisms
  Test type: DEV-L2
  Results: > 1000 mg/l
  Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

- **Persistence and degradability**
  Elimination information
  More than 60% CO2 formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C). Readily degradable.

- **Additional Information**
  Other Ecotoxicological advice:
  Do not release untreated waste into natural waters. The product has been tested. The statement has been derived from substance/ products of a similar structure or composition.

13. DISPOSAL CONSIDERATIONS

- **Waste Disposal of Substance**
  Dispose of in accordance with national, state and local regulations. It is the waste generators responsibility to determine if a particular waste is hazardous under RCRA.

- **Container Disposal**
  Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorised use of used containers.

GHS Safety Data Sheet

Sorbitan Mono Stearate

---

14. TRANSPORT INFORMATION

- **Land transport**
  USDOT
  Not classified as a dangerous good under transport regulations.

- **Sea Transport**
  IMDG
  Not classified as a dangerous good under transport regulations.

- **Air Transport**
  IATA/ I CAD
  Not classified as a dangerous good under transport regulations.

15. REGULATORY INFORMATION

- **Federal Regulations Registration Status**
  TSCA, US : released/ listed
  Chemical DSL, CA : released/ listed

- **OSHA Hazard Category** : Skin and/ or eye irritant

- **SARA Hazard Categories (EPCRA 311/312)** : Acute

- **State regulation**
  CA Prop. 65
  THIS PRODUCT MAY CONTAIN TRACES OF A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM.
  Such chemical: NONE

GHS Safety Data Sheet

Sorbitan Mono Stearate

16. OTHER INFORMATION

- **NFP Hazard Codes**
  Health: 1 Fire: 0 Reactivity: 0 Special: None

- **HMIS III Rating**
  Health: 1 Flammability: 0 Physical Hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating system is intended for different purposes, and use different criteria. The NFPA system was developed to provide an on the spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

This information is based on our knowledge. However, this shall not constitute guarantee for any specific product features and shall not establish legally valid contractual relationship.