Material Safety Data Sheet

according to Regulation GB/T 16483-2008 and UN GHS(Rev.4)

Sorbitan monolaurate

Doc no.: RHB-STP-GY-003-2019 Version: C/0 Revision Date: 25-Nov-2019

Section 1: Chemical Product and Company Identification

1.1 Product identifier

Product name Sorbitan monolaurate

CAS number 1338-39-2

1.2 Recommended uses and uses advised against

Recommended use According to GB2760-2014, use as emulsifier

in food, pharmaceutical, industrial, cosmetics

and other industries

Uses advised against Unknown

1.3 Details of the manufacturer of the safety data sheet

Company Guangdong Runhua Chemistry Co., Ltd.

No.7 Jinnan 2nd Road, Fine Chemical Industry Base, Qinghua Park, Donghuazhen, Yingde,

Guangdong, 513058, China

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Section 2: Hazards Identification

2.1 Classification of the substance or mixture

2.1.1 GHS hazard classification

Physical hazards None
Health hazards None
Environmental hazards None

2.2 Label element

Hazard pictogram None
Hazard statements None
Signal word None

2.3 Precaution statements

Prevention Keep away from heat and fire

Response Not applicable

Storage Store in dry, cool and well-ventilated place

Keep container tightly closed

Disposal should be in accordance with

applicable regional, national and local laws

and regulations

Section 3: Composition and Information on Ingredients

3.1 Substance or mixture

Substance

3.2 Composition

Name	CAS#	EC#	% by weight
Sorbitan monolaurate	1338-39-2	215-663-3	~ 100

Section 4: First Aid Measures

4.1 First aid measures for different exposure routes

Inhalation Move to fresh air. If symptoms persist, call a

physician

Skin contact Remove contaminated clothing. Rinse with

plenty of water and soap

Eye contact Rinse immediately with plenty of water, for at

least 15 minutes. Get medical attention

immediately if irritation persists

Ingestion Drink plenty water to dilute. Get medical

attention immediately if symptoms occur

4.2 Most important symptoms and

effects

None under normal use conditions

4.3 Protection for emergency personnel

Emergency personnel should be informed

about the substance

4.4 Notes to physician

Physician should be informed about the substance and treat symptomatically

Section 5: Fire and Explosion Data

5.1 Extinguishing media

Suitable extinguishing media Substance is high temperature flammable.

Use water, carbon dioxide, foam, dry powder

Unsuitable extinguishing media Unknown

5.2 Specific hazards arising from the

May ignite by sparks, heat flames. Carbon dioxide and carbon dioxide may be released chemical

by fire

5.3 Special protective actions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective

gear

Section 6: Accidental Release Measures

Comply with good personal hygiene habits. 6.1 Personal precautions

> Advice for non-emergency personnel: do not breathe in steam or aerosol. Evacuate area: follow emergency procedures and seek for expert's advice. Use personal protective

equipment recommended in Section 8

6.2 Environmental precautions Untreated chemicals are strictly prohibited to

be discharged into the environment

6.3 Methods for containment and clean

up

Contain spillage, and then collect with noncombustible absorbent materials, (e.g. sand, dry lime, soda ash) and place in container for

disposal according to local/ national

regulations. It can also be diluted with a large amount of water before release into the waste water system. For large spill, use dike to contain and then collect, transfer, recycle or

discard after treatment

6.4 Preventive measures against secondary hazards

Immediate clean-up of the spillage

Section 7: Handling and Storage

7.1 Handling

Technical measures Use in well-ventilated place. Wear personal

protective equipment. Wash hands after

working with substance

Local or general ventilation Provide adequate ventilation

Precautionary measures Avoid breathing excessive vapors/gas/fume.

Do not get in eyes or contact with skin.

Safe operation statements Avoid contact with eyes and skin. Use

personal protection recommended by SDS

Section 8.

7.2 Storage

Technical measures No special storage requirements

Safe storage conditions Keep containers tightly closed in a dry, cool

and well -ventilated place. Keep away from kindling material, heat source and direct sun

light

Incompatible substances Oxidizing agent

Safe packaging material Unknown

Section 8: Exposure Controls/Personal Protection

8.1 Exposure guidelines

Exposure limits Unknown

Engineering controls Closed production area; the use of local

exhaust ventilation is recommended to control emissions near the source. Ensure there is eye wash station and emergency shower

station nearby.

8.2 Personal protective equipment

Respiratory protection Non-powered air-purifying respirators (full

face mask) or self-contained respirator must

be worn when expose to vapor

Hand protection Wear appropriate protective gloves

Eye protection Wear safety goggles

Skin and body protection Wear gloves and protective clothing (non-

permeable)

Hygiene measures Smoking, eating and drinking are prohibited at

work site.

Section 9: Physical and Chemical Properties

9.1 General information

Physical state In between liquid and semi-solid

Shape Viscous

Color Brownish yellow

Odor Characteristic odor

рН 6.0 - 8.0 (5% aqueous solution)

Melting point Unknown Unknown Boiling point / range

Flash point >120° C (Closed cup)

Flammability Unknown Upper flammability limit (%) Unknown Lower flammability limit (%) Unknown Upper explosion limit (%) Unknown Lower explosion limit (%) Unknown Unknown Vapor pressure Vapor density Unknown Unknown Relative density Unknown Density

Solubility Soluble in organic solvents such as ethanol,

> ethyl acetate and petroleum ether. Can be dispersed in hot water. Insoluble in cold water

Partition coefficient; n-octanol/water Unknown Decomposition temperature Unknown Molecular Formula $C_{18}H_{34}O_{6}$ Molecular weight 346.5 g/mol

9.2 Other information

Unknown Solubility (other) Odor threshold Unknown Evaporation rate Unknown Inflammability (solid, gas) Unknown Viscosity Unknown

Section 10: Stability and Reactivity Data

10.1 Stability Stable under normal conditions

10.2 Possibility of hazardous reactions None under normal processing

10.3 Conditions to avoidAvoid incompatible materials and excessive

heating

10.4 Incompatible materials Strong oxidant and strong base

10.5 Hazardous decomposition products Unknown

Section 11: Toxicological Information

11.1 Toxicokinetic, metabolism and

distribution

Unknown

11.2 Toxicology information

Acute Toxicity

LD₅₀ (oral, mice) >10000mg/kg

 LD_{50} (percutaneous, rabbit) No data LD_{50} (inhalation, mice) No data

Skin corrosion/irritation Uncategorized Eye corrosion/ irritation Uncategorized Respiratory/ skin sensitization Uncategorized Germ cell mutagenicity Uncategorized Carcinogenicity Uncategorized Reproductive toxicity Uncategorized STOT - single exposure Uncategorized STOT - repeated exposure Uncategorized Aspiration hazard Uncategorized ADI 0-25 mg/kg

Section 12: Ecological Information

12.1 Ecotoxicity

Fish Unknown Water flea Unknown

Algae

12.2 Persistence and degradability Unknown

12.3 Bioaccumulation/ accumulation Unknown

12.4 Mobility in soil Unknown

12.5 Other adverse effects Unknown

Section 13: Disposal Considerations

13.1 Waste from Residues / Unused

Products

Disposal should be in accordance with applicable regional, national and local laws and regulations. Empty containers or gasket material may have residues; these material and containers must be disposed in a safe manner.

13.2 Contaminated packaging Empty containers should be sent to approved

waste disposal sites for regeneration or disposal. Empty containers may have residues, pay attention to label warnings

even for empty containers.

13.3 Local Hazardous Waste CodesRecycle or send it to a special waste disposal

site in a sealed container. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: Transport Information

	ADR/ RID	IMDG	ICAO/ IATA
UN- No.	Uncategorized	Uncategorized	Uncategorized

UN proper shipping name	Non-dangerous good	Non-dangerous good	Non-dangerous good
UN hazard class	Uncategorized	Uncategorized	Uncategorized
Packaging group	Uncategorized	Uncategorized	Uncategorized
Marine pollutant	No	No	No
Special precautions for user related to transport or transportation measures	Refer to Section 2.2	Refer to Section 2.2	Refer to Section 2.2

Section 15: Other Regulatory Information

15.1 Special regulations/legislation on the safety, health and environmental protection of substances and mixtures

Whether it is included in the chemical catalogs of other countries:

The chemical is listed in the

IECSC catalog

EINECS The chemical is listed in the

IECSC catalog

EPATSCA The chemical is listed in the

TSCA catalog

DSL/ NDSL The chemical is listed in the

DSL/NDSL catalog

2015 Catalogue of Hazardous Chemicals

This chemical is not listed in

2015 Catalogue of Hazardous

Chemicals

The following laws, regulations and standards have made corresponding provisions on the safe use, storage, transportation, handling, classification and label of chemicals:

Law of the People's Republic of China on Work safety;

Law of the People's Republic of China on the Prevention and Control of Occupational Diseases;

Environmental Protection Law of the People's Republic of China;

Regulations on the Safe Management of Hazardous Chemicals in China;

Regulations on Production Safety Licenses;

15.2 Notes for downstream uses

Disposal of this product and container should comply with relevant regulations

Section 16: Other Information

16.1 Revision description

This document has been updated to comply with GB/T16483-2008 Safety Date Sheet For Chemical Products Content and Order of Sections

16.2 Details

The information provided in the SDS is correct to the best of our knowledge. The information is prepared exclusively for the specific material designated.

16.3 Special remarks

The information given in this SDS is designed only as a guidance. Users must independently determine and judge whether the contents are suitable for use and protect the health and safety of anyone handling the product. This SDS does not provide any guarantee, the information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

16.4 Abbreviation

ADR (Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG (International Maritime Dangerous Goods Code)

IATA (International Air Transport Association)

ICAO-TI (International Civil Aviation Organization- Technical Instructions)

CAS (Chemical Abstracts Service)

LC50 (Median lethal concentration)

EC50 (Half maximal effective concentration)

LD50 (Median lethal dose)

ADI (Acceptable daily intake)

16.5 Disclaimer

The information provided in the SDS is correct to the best of our knowledge. No warranties, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose or course of performance or usage of trade. User is responsible for determining whether the designated product is fit for a particular purpose and suitable for user's method of use or application. Runhua is not responsible for any third-party compensation, loss, damage, or loss of profits caused, or any special, indirect, incidental, or consequential. All personnel handling product should be fully aware of the potential risks involved and take appropriate safety and regulatory measures before actually working with the product.