

## Material Safety Data Sheet Polyoxyethylene (20) sorbitan monolaurate

### Section 1: Chemical Product and Company Identification

#### Product identifier

Product name Polyoxyethylene (20) sorbitan monolaurate  
Other name Polysorbate 20  
CAS number 9005-64-5

#### 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

#### Details of the manufacturer of the safety data sheet

Company name: BizinBiz Technologies Pvt Ltd Company Address: A-448, Pocket 2, Sector 8, Rohini, New Delhi, Pin Code: 110085, India Company Web Site: [www.elchemy.com](http://www.elchemy.com) Mobile number: +919867099519  
Email Id: [info@elchemy.com](mailto:info@elchemy.com)

### Section 2: Hazards Identification

#### Classification of the substance or mixture

##### GHS hazard classification

Physical hazards None  
Health hazards None  
Environmental hazards None

#### Label element

Hazard pictogram None  
Hazard statements None  
Signal word None

#### 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 Disposal should be in accordance with applicable regional, national and local laws and regulations



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### Section 3: Composition and Information on Ingredients

Substance or mixture  
Composition

Substance

Name	CAS#	EC#	% by weight
Polyoxyethylene (20) sorbitan monolaurate	9005-64-5	500-018-3	~ 100

### Section 4: First Aid Measures

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

Most important symptoms and effects

None under normal use conditions

Protection for emergency personnel Emergency personnel should be informed about the substance

Notes to physician Physician should be informed about the substance and treat symptomatically

### Section 5: Fire and Explosion Data

Extinguishing media

Suitable extinguishing media Substance is high temperature flammable.

Use water, carbon dioxide, foam, dry powder

Unsuitable extinguishing media Unknown

Specific hazards arising from the chemical

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

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



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## Section 6: Accidental Release Measures

Personal precautions Comply with good personal hygiene habits.

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

Environmental precautions Untreated chemicals are strictly prohibited to be discharged into the environment

Methods for containment and clean up

Contain spillage, and then collect with non- combustible 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

Preventive measures against secondary hazards

Immediate clean-up of the spillage

## Section 7: Handling and Storage

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.

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



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## 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.

## Personal protective equipment

Respiratory protection Non-powered air-purifying respirators (full face mask) or self-contained respirator must

be worn when exposed 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

### General information

Physical state Liquid

Shape Oily liquid

Color Between yellow and orange

Odor Characteristic odor

pH 4-7.5 (5% aqueous solution)

Melting point Unknown

Boiling point / range Unknown

Flash point >120°C (Closed cup)

Flammability Unknown

Upper flammability limit (%) Unknown

Lower flammability limit (%) Unknown

Upper explosion limit (%) Unknown

Lower explosion limit (%) Unknown

Vapor pressure <1.33hPa

Vapor density Unknown

Relative density (20°C) 1.09-1.12

Density Unknown

Solubility Soluble in water, methanol, ethyl acetate and toluene(methylbenzene). Insoluble in mineral oil and vegetable oil

Partition coefficient; n-octanol/water Unknown Decomposition temperature Unknown

Molecular Formula C<sub>58</sub>H<sub>114</sub>O<sub>26</sub>

Molecular weight 1226.48g/mol

### Other information

Solubility (other) Unknown

Odor threshold Unknown



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Evaporation rate            Unknown  
Inflammability (solid, gas)            Unknown  
Viscosity            250-400mm<sup>2</sup>/s@25°C

## Section 10: Stability and Reactivity Data

Stability Stable under normal conditions

Possibility of hazardous reactions            None under normal processing

Conditions to avoid            Avoid incompatible materials and excessive heating

Incompatible materials   Strong oxidant and strong base

Hazardous decomposition products            Unknown

## Section 11: Toxicological Information

Toxicokinetic, metabolism and distribution            Unknown

Toxicology information

Acute Toxicity

LD50 (oral, mice)            >10000mg/kg

LD50 (percutaneous, rabbit)            No data

LD50 (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



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STOT - single exposure Uncategorized  
STOT - repeated exposure Uncategorized  
Aspiration hazard Uncategorized  
ADI 0~25mg/kg

## Section 12: Ecological Information

Ecotoxicity  
Fish Unknown  
Water flea Unknown  
Algae  
Persistence and degradability Unknown

Bioaccumulation/ accumulation Unknown

Mobility in soil This product is water soluble

Other adverse effects Unknown

## Section 13: Disposal Considerations

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.

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.

Local Hazardous Waste Codes Recycle 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



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	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

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 :

IECSC This chemical is listed in IECSC

EINECS This chemical is listed in EINECS

TSCA This chemical is listed in TSCA

DSL/ NDSL This chemical is listed in DSL

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;

Notes for downstream uses

Disposal of this product and container should comply with relevant regulations

## Section 16: Other Information

Revision description

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

Details



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

#### 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.

#### 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)

#### 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. Elchemy 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.



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