



Safety Data Sheet

Issuing Date 17-Jul-2015

Revision Date 17-Jul-2015

Revision Number 3

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Polysorbate 20

Other means of identification

Synonyms Polyoxyethylene (20) Sorbitan Monolaurate
PEG 20 Sorbitan Monolaurate

Recommended use of the chemical and restrictions on use

Recommended Use Emulsifier.

Details of the supplier of the safety data sheet

Distributor Address Chemistry Connection
253 Sturgis Rd
Conway, AR 72034 USA
(501) 470-9689

Emergency Telephone Number CHEMTREC International +1-703-527-3887

Emergency Telephone Number CHEMTREC USA: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard.

This is not a dangerous substance or mixture according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Label Elements

EMERGENCY OVERVIEW

Not Hazardous

Color Yellow

Physical State Liquid

Odor Mild

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms Polyoxyethylene (20) Sorbitan Monolaurate
PEG 20 Sorbitan Monolaurate

Chemical Name	CAS-No.	Weight %
Polyoxyethylene Sorbitan Monolaurate	9005-64-5	100

4. FIRST AID MEASURES

FIRST AID MEASURES

Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately if irritation persists.
Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed**Indication of any immediate medical attention and special treatment needed**

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

<u>Suitable extinguishing media</u>	Use extinguishing measures appropriate to local circumstances and surrounding materials.
Unsuitable extinguishing media	None identified.
<u>Specific hazards arising from the chemical</u>	None identified.
Hazardous combustion products	Carbon oxides.
<u>Explosion Data</u>	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.
<u>Protective equipment and precautions for firefighters</u>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment.

Environmental precautions

Environmental precautions Prevent release to surface water.

Methods and material for containment and cleaning up

Methods for Containment Dike to collect large liquid spills.

Methods for Cleaning Up Absorb with inert material and transfer to containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Measures Safety Shower
Eyewash station
Ventilation system.

Individual protection measures, such as personal protective equipment

Eye/face Protection Safety glasses with side-shields.
Skin and Body Protection Protective gloves.
Respiratory Protection No requerido bajo condiciones normales.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Mild
Appearance	Clear		
Color	Yellow		
Property	Values	Remarks • Method	
pH	6 - 7	5% aqueous	
Melting point/freezing point		Not determined	
Boiling point/boiling range	> 100 °C		
Flash Point	> 100 °C	Open cup	
Evaporation Rate		Not determined	
Flammability (solid, gas)	May burn if exposed to open flames		
Flammability Limits in Air		Not determined	
Upper flammability limits			
Lower Flammability Limit			
Vapor pressure		Not determined	
Vapor Density		Not determined	
Specific Gravity	1.1	@ 25°C	
Water Solubility	Soluble		
Solubility in other solvents		Not determined	
Partition coefficient		Not determined	
Autoignition Temperature		Not determined	
Decomposition temperature		Not determined	
Kinematic viscosity	22 cps	@ 100 °C	
Dynamic viscosity		Not determined	
Explosive Properties	None		
Oxidizing Properties	None		

Other Information

10. STABILITY AND REACTIVITY

Reactivity	Not reactive
Remarks	
Chemical stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	
Hazardous Reactions	None under normal processing.
Conditions to Avoid	Extremes of temperature and direct sunlight
Incompatible materials	Strong oxidizing agents.
Hazardous Decomposition Products	None identified.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Product does not present an acute toxicity hazard based on published data for similar substances.
Inhalation	No known hazard.
Eye contact	Not irritating to eyes.
Skin contact	Not irritating to skin.
Ingestion	Ingestion may cause stomach discomfort.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Polyoxyethylene Sorbitan Monolaurate 9005-64-5	> 5 g/kg (Rat)	-	-

Information on toxicological effects

Symptoms None identified.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No known hazard.
Mutagenic Effects No known hazard.
Carcinogenicity Contains no listed human carcinogens at greater than 0.1%.

Reproductive Toxicity No known hazard.

Developmental Toxicity No known hazard.
Teratogenic No known hazard.
Chronic Toxicity No known hazard.
Aspiration hazard No known hazard.

Numerical measures of toxicity-Product Information Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Not expected to be toxic to aquatic organisms.

Persistence and degradability

Biodegradable.

Bioaccumulation/Accumulation

Not expected to be bioaccumulative.

Mobility

No data available.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Waste Disposal Method	Dispose of in accordance with applicable regulations.
Contaminated Packaging	Dispose of in accordance with applicable regulations.
US EPA Waste Number	None as supplied

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
IATA	Not regulated
IMDG / IMO	Not regulated

15. REGULATORY INFORMATION**International Inventories**

TSCA	Complies
DSL	Complies
EINECS	Polymer
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances**ENCS - Japan Existing and New Chemical Substances**IECSC - China Inventory of Existing Chemical Substances**KECL - Korean Existing and Evaluated Chemical Substances**PICCS - Philippines Inventory of Chemicals and Chemical Substances**AICS - Australian Inventory of Chemical Substances***U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

U.S. State Regulations

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

16. OTHER INFORMATION

NFPA	Health Hazard 0	Flammability 1	Instability 0	Physical and Chemical Hazards n/a
HMIS	Health Hazard 0	Flammability 1	Physical hazards 0	Personal Precautions A

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.