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ISO 9001: 2015

MATERIAL SAFETY DATA SHEET

1. Identification

Product Name
Ethylene glycol monostearate
Code E 1544

2. Hazard(s) identification

Classification
Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Based on available data, the classification criteria are not met
Label Elements
None required
Hazards not otherwise classified (HNOC)
None identified

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Octadecanoic acid, 2-hydroxyethyl ester	111-60-4	100

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

Inhalation Remove from exposure, lie down. Move to fresh air.

Ingestion Clean mouth with water. Get medical attention.

Most important symptoms and effects No information available.

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO₂). Dry chemical. Chemical foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available

Method - No information available

Autoignition Temperature No information available

Explosion Limits

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Keep product and empty container away from heat and sources of ignition. Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO₂)

Protective Equipment and Precautions for Firefighters
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 Ensure adequate ventilation. Use personal protective equipment. Environmental Precautions
See Section 12 for additional ecological information.

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal up

7. Handling and storage

Handling Avoid contact with skin and eyes. Do not breathe dust

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

8. Exposure controls / personal protection

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Octadecanoic acid, 2-hydroxyethyl ester	TWA: 10 mg/m3 TWA: 3 mg/m3			

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection No protective equipment is needed under normal use conditions.

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

9. Physical and chemical properties

Physical State	Solid
Appearance	Off-white
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point/Range	55 - 60 °C / 131 - 140 °F
Boiling Point/Range	149 °C / 300.2 °F
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C20 H40 O3
Molecular Weight	328.53

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Strong bases
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO2)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity	No acute toxicity information is available for this product		
Product Information	No acute toxicity information is available for this product		
Component Information			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Octadecanoic acid, 2-hydroxyethyl ester	LD50 > 5000 mg/kg (Rat)	Not listed	Not listed
Toxicologically Synergistic Products	No information available		
Delayed and immediate effects as well as chronic effects from short and long-term exposure	No information available		
Irritation	No information available		
Sensitization	No information available		
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen		

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Octadecanoic acid, 2-hydroxyethyl ester	111-60-4	Not listed				
Mutagenic Effects	No information available					
Reproductive Effects	No information available.					
Developmental Effects	No information available.					
Teratogenicity	No information available.					
STOT - single exposure	None known					
STOT - repeated exposure	None known					

Aspiration hazard No information available
 Symptoms / effects, both acute and delayed No information available
 Endocrine Disruptor Information No information available
 Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity
 Persistence and Degradability Soluble in water Persistence is unlikely based on information available.
 Bioaccumulation/ Accumulation No information available.
 Mobility Will likely be mobile in the environment due to its water solubility

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

14. Transport information

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

15. Regulatory information

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Octadecanoic acid, X	X	X	-	203-886-9		-	X	X	X	X	X
2-hydroxyethyl ester											

X - Listed
 E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
 F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
 N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
 P - Indicates a commenced PMN substance
 R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
 S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
 T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
 XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).
 Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
 Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations
 TSCA 12(b) Not applicable
 SARA 313 Not applicable
 SARA 311/312 Hazard Categories See section 2 for more information
 CWA (Clean Water Act) Not applicable
 Clean Air Act Not applicable
 OSHA Occupational Safety and Health Administration
 Not applicable
 CERCLA Not applicable
 California Proposition 65 This product does not contain any Proposition 65 chemicals
 U.S. State Right-to-Know
 Regulations
 Not applicable
 U.S. Department of Transportation
 Reportable Quantity (RQ): N
 DOT Marine Pollutant N
 DOT Severe Marine Pollutant N
 U.S. Department of Homeland Security
 This product does not contain any DHS chemicals.
 Other International Regulations
 Mexico - Grade No information available

Section 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all

precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

