

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Polyoxyethylenesorbitan Monooleate

PRODUCT NUMBER: P738

COMPANY INFO: PhytoTechnology Laboratories®

PO Box 12205, Shawnee, KS 66282-2205

Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442

www.phytotechlab.com

EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only

1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

Products sold by PhytoTechnology Laboratories® are intended for research and laboratory use

RESTRICTIONS ON USE: only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or

pesticidal products, food additives, or as household chemicals.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture.

GHS Label elements, including hazard and precautionary statements:

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS - None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Tween® 80, Polysorbate 80

CAS No.: 9005-65-6 Formula: $C_{64}H_{124}O_{26}$ Molecular Weight: 1309.63 g/mol EC No.: 500-019-9

Ingredient	CAS Number	Percent	Hazardous
Polyoxyethylenesorbitan	9005-65-6	>97 %	No exposure limits established by OSHA or ACGIH
Monooleate	7003 03 0	271 70	Two exposure minus established by Oshiri of riconi

4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous

area.

Route of Entry Symptoms First Aid Procedures

Ingestion May cause irritation if swallowed If swallowed, wash out mouth with water. Never give anything

by mouth to an unconscious person. Get medical attention.

Inhalation May cause irritation to respiratory Safely remo

tract

Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. **Get medical attention.**

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Eye Contact Direct contact may cause irritation.

May cause redness, tearing, or

blurred vision.

Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. **Get medical attention if irritation**

persists.

Skin Contact Irritating. May cause reddening,

itching or inflammation.

Wash area thoroughly with soap and water. Remove and wash contaminated clothing. **Get medical attention if irritation**

persists.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use

extinguishing media suitable for surrounding fire.

Special Protective Equipment and

Precaution for Firefighters:

In the event of a fire, wear full protective clothing and NIOSH approved self-

contained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: May emit toxic fumes under fire conditions.

Toxic Gases Produced: No data available

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and

Cleanup:

Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush

spill area with water. Do not let products enter drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid

incompatible substances. Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Incompatibilities: Strong oxidizing agents, alkalis, some metals

Recommended Storage Temperature: Room Temperature

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

Threshold Limit Values (TLVs): No data available

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where

eye contact can occur.

Skin Protection: Protective gloves

Body Protection: Lab coat

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Respiratory Protection: Respiratory protection is not required.

Use N95 (US) or type P1 (EN 143) dust mask where dust level is nuisance.

A NIOSH/MSHA approved air purifying respirator is recommended where airborne concentrations are expected to exceed exposure limits. Protection provided by purifying

respirators is limited.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale yellow to amber viscous liquid

pH: No data available
Solubility: Miscible with Water
Melting Point: No data available
Vapor Density: No data available

Vapor Pressure: $< 1 \text{ hPa} (< 1 \text{ mmHg}) \text{ at } 20 \text{ }^{\circ}\text{C} (68 \text{ }^{\circ}\text{F})$

Odor: May have slight odor
Odor Threshold: No data available
Viscosity: No data available
Relative Density: 1.064 g/cm³

Evaporation Rate: No data available Initial Boiling Point and Boiling Range: 100 °C (212 °F)

Partition coefficient:

Flammability (solid, gas):

n-octanol/water):

No data available

Auto-ignition Temperature: No data available Decomposition Temperature: No data available Flash Point (Closed Cup): $> 113 \,^{\circ}\text{C} (> 235 \,^{\circ}\text{F})$

Flammable Limits: Upper (%) – No data available Lower (%) – No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use – Material may be hygroscopic

Possibility of Hazard Reactions: Will not occur Conditions to Avoid: Moist air

Incompatibles Materials: Strong oxidizing agents, bases, heavy metal salts

No data available

Hazardous Decomposition Products: No data available

11. TOXICOLOGICAL INFORMATION

Toxicity: LD_{50} (Oral-Rat)(μ L/Kg): 34,500

LD₅₀ (IV-Rat)(mg/Kg): 1790 LD₅₀ (Oral-Mouse)(mg/Kg): 25,000

Carcinogenicity: NTP: No

IARC: No Z List: No OSHA Reg: No

Reproductive Toxicity: No data available

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Symptoms Associated with

Overexposure:

Irritation, itching, gastrointestinal upset, nausea, vomiting, headache, possible mutagenic and tumorigenic effects, possible reproductive effects, kidney or liver impairment, weight loss or gain,

cardiac changes

None identified

Specific Target Organ

Toxicity:

Single Exposure: No data available

Repeated Exposure: No data available

Target Organs: Liver, kidney, gastrointestinal system

Medical Conditions

Routes of Entry:

Aggravated By Exposure:

Ingestion, skin and eye contact

NIOSH/RTECS NO: WG2932500

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available
Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental

regulations.

EPA Hazardous Waste Number: No data available

14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

15. REGULATORY INFORMATION

TSCA: Yes

SARA TITLE III:

Section 302 (EHS) Ingredients: No Section 313 Ingredients: No

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Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: No SARA Hazards

Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components: CAS No.: 9005-65-6 Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-

ethanediyl) derivative

New Jersey Right to Know Components: CAS No.: 9005-65-6 Sorbitan, mono-(9Z)-9-octadecenoate, poly(oxy-1,2-

ethanediyl) derivative

California Prop. 65 Components: This product does not contain any chemicals known to State of California to

cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating:

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
0		0	0
Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
0	0	0	

no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. *Phyto* Technology Laboratories® shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

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