

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Polyoxyethylenesorbitan (Tween® 20)

PRODUCT NUMBER: P720

COMPANY INFO: PhytoTechnology Laboratories®

PO Box 12205, Shawnee, KS 66282-2205

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www.phytotechlab.com

EMERGENCY PHONE NUMBER 1-800-535-5053 - US Only (INFOTRAC): 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® 20; Polyoxyethylenesorbitan Monolaurate

CAS No: 9005-64-5 Formula: $C_{58}H_{114}O_{26}$ Molecular Weight: 1227.5 g/mol

Ingredient	CAS Number	Percent	Hazardous
Polyoxyethylenesorbitan Monolaurate	9005-64-5	>97%	No exposure limits established by OSHA or ACGIH

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

Hazardous Combustion Products: 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 dust, vapors, mist or gas.

Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

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 product enter drains.

7. HANDLING AND STORAGE

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

incompatible substances. Provide adequate ventilation at places where dust is

formed. Wash thoroughly after use.

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

Product is hygroscopic.

Incompatibilities: Strong oxidizing agents

Recommended Storage Temperature: Room Temperature

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): None

Threshold Limit Values (TLVs): None

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

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

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale yellow to amber viscous liquid

pH (Neat): 7.8 - 9.3

Solubility: Miscible with Water Melting Range: No data available Vapor Density: No data available

Vapor Pressure: <1.33 hPA (<1.00 mmHg)

Specific Gravity: No data available
Odor: May have slight odor
Odor Threshold: No data available
Viscosity: No data available

Relative Density: 1.095 g/mL at 25 °C (77 °F) Evaporation Rate: No data available

Initial Boiling Point and

100 °C (212 °F)

Flammability (solid, gas): No data available

Partition coefficient:

Boiling Range:

n-octanol/water):

Auto-ignition Temperature: No data available

Decomposition Temperature: No data available

Flash Point (Closed Cup): >110 °C (>230 °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

Possibility of Hazard Reactions:

Conditions to Avoid:

Incompatibles Materials:

No data available

No data available

Hazardous Decomposition Products:

No data available

11. TOXICOLOGICAL INFORMATION

Toxicity: LD_{50} (Oral-Rat)(mg/Kg) 40,554

LD₅₀ (IV-Rat)(mg/Kg) No data available

 LD_{50} (Oral-Mouse)(mg/Kg) No data available

Carcinogenicity: NTP: No

IARC: No

OSHA Reg: No

Reproductive Toxicity: No data available

Specific Target Organ Toxicity: Single Exposure: No data available

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Repeated Exposure: No data available

Target Organs: Liver, kidney, gastrointestinal system

Routes of Entry: Inhalation and ingestion

NIOSH/RTECS NO: TR7400000

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxicity to Fish: LC50 – 350 mg/L – 24 hrs

Persistence and Degradability:

Bioaccumulative Potential:

Mobility in Soil:

Other Adverse Effects:

No data available

No data available

13. DISPOSAL CONSIDERATION

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

regulations.

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
Section 304 (EHS/CERCLA) Ingredients:

No

Section 311/312 Hazard: No SARA Hazards

Massachusetts Right to Know Components: This product is not on the Massachusetts Toxic or Hazardous Substance

List (301 CMR 41.00).

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Pennsylvania Right to Know Components: This product is not listed on the Pennsylvania Code's Hazardous Substance

List (Chapter 323).

New Jersey Right to Know Components: This product is not listed amongst the New Jersey Right to Know

Hazardous Substance Fact Sheets.

California Prop. 65 Components: This product is not known to the State of California to cause cancer or

reproductive toxicity.

16. OTHER INFORMATION

HMIS Rating:

Physical Health Hazard Flammability Personal Protection Hazard 0 0 0 В **Health Hazard** Fire Hazard **Instability Special Hazard** 0 0 0

NFPA Rating:

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