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**MSDS****Material Safety Data Sheet**

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An ISO 9001-2000 Certified Company  
Manufacturing Of Fine Chemicals

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# POLYSORBATE 80

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## 1. Product Identification

**Synonyms:** Polyoxyethylene(20)sorbitan monooleate.

**CAS No.:** 9005-65-6

**Chemical Name:** Tween® 80

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## 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	EINECS/ELINCS
Polysorbate 80	9005-65-6	100%	unlisted

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## 3. Hazards Identification

### Emergency Overview

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**Appearance:** clear yellow to amber viscous liquid.

**Caution!** May cause eye, skin, and respiratory tract irritation. The toxicological properties of this material have not been fully investigated.

**Target Organs:** None known.

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### Potential Health Effects

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**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation. May be harmful if absorbed through the skin.

**Ingestion:** May cause irritation of the digestive tract. May be harmful if swallowed.

**Inhalation:** May cause respiratory tract irritation. May be harmful if inhaled.

**Chronic:** No information found.

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## 4. First Aid Measures

**Eyes:**

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

**Skin:**

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

**Ingestion:**

Do not induce vomiting. Get medical aid if irritation or symptoms occur.

**Inhalation:**

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

**Notes to Physician:**

Treat symptomatically and supportively.

## 5. Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or appropriate foam.

**Flash Point:** > 110 deg C (> 230.00 deg F)

**Autoignition Temperature:** Not applicable.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 1; Flammability: 1; Instability: 0

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## 6. Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Provide ventilation. Do not let this chemical enter the environment.

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## 7. Handling and Storage

**Handling:** Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Use with adequate ventilation.

**Storage:** Store in a cool, dry place. Store in a tightly closed container. Store at around 20°C.

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## 8. Exposure Controls/Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Tween® 80	none listed	none listed	none listed

**OSHA Vacated PELs:** Tween® 80: No OSHA Vacated PELs are listed for this chemical.

### Personal Protective Equipment

**Eyes:** 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:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN

149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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## 9. Physical and Chemical Properties

**Physical State:** Viscous liquid

### Appearance:

clear yellow to amber

### Odor:

Not available.

### pH:

6 (10% aq.sol.)

**Vapor Pressure:**

< 1 hPa @ 20 deg C

**Vapor Density:**

>1.0

**Evaporation Rate:**

>1 (ether=1)

**Viscosity:**

400 mPas @ 25 deg C

**Boiling Point:**

100 deg C

**Freezing/Melting Point:**

Not available.

**Decomposition Temperature:**

Not available.

**Solubility:**

100 g/L

**Specific Gravity/Density:**

1.080

**Molecular Formula:**

Not applicable.

**Molecular Weight:**

Not available.

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## 10. Stability and Reactivity

**Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Incompatible materials, excess heat.

**Incompatibilities with Other Materials:**

Strong oxidizing agents, bases, heavy metal salts.

**Hazardous Decomposition Products:**

Carbon monoxide, carbon dioxide.

**Hazardous Polymerization:**

Has not been reported.

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## 11. Toxicological Information

**RTECS#:**

**CAS# 9005-65-6: WG2932500**

**LD50/LC50:**

CAS# 9005-65-6:

Draize test, rabbit, eye: 150 mg Mild; Oral,

mouse: LD50 = 25 gm/kg; Oral, rat: LD50

= 34500 uL/kg;

**Carcinogenicity:**

**CAS# 9005-65-6:** Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** Tumorigenic effects have been reported in experimental animals.

**Teratogenicity:** Teratogenic effects have occurred in experimental animals.

**Reproductive Effects:** Adverse reproductive effects have occurred in experimental animals.

**Mutagenicity:** No information available.

**Neurotoxicity:** No information available.

**Other Studies:**

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## 12. Ecological Information

**Ecotoxicity:**

No data available. No information available.

**Environmental:**

No information found.

**Physical:**

No information found.

**Other:**

Do not empty into drains.

## 13. Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3.

Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

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## 14. Transport Information

	<b>US DOT</b>	<b>Canada TDG</b>
<b>Shipping Name:</b>	Not regulated.	Not regulated.
<b>Hazard Class:</b>		
<b>UN Number:</b>		
<b>Packing Group:</b>		

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# 15. Regulatory Information

## US FEDERAL

### TSCA

CAS# 9005-65-6 is listed on the TSCA inventory.

### Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

### Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

### Section 12b

None of the chemicals are listed under TSCA Section 12b.

### TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

### CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

### SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

### Section 313

No chemicals are reportable under Section 313.

### Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

### Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA

### OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

### STATE

CAS# 9005-65-6 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

### California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations European Labeling in Accordance with EC Directives

### Hazard Symbols:

Not available.

### Risk Phrases:

### Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

### WGK (Water Danger/Protection)

CAS# 9005-65-6: 1

### Canada - DSL/NDSL

CAS# 9005-65-6 is listed on Canada's DSL List.

**Canada – WHMIS**

This product has a WHMIS classification of D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**Canadian Ingredient Disclosure List**

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**16. Other Information**

**Revision Information:**

No Changes.

**Disclaimer:**

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**HALOGENS provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose**

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