MSDS Number: **T7683** * * * * *Effective Date:* **09/16/09** * * * * *Supercedes:* **08/02/07**



Polysorbate 80

1. Product Identification

Synonyms: Polyoxyethylene (20) sorbitan monooleate; Polysorbate 80 NF CAS No.: 9005-65-6 Molecular Weight: Not applicable. Chemical Formula: Not applicable. Product Codes: J.T. Baker: 2903, 4091, X257 Mallinckrodt: 7091, H286

2. Composition/Information on Ingredients

Ingredient CAS No Percent Hazardous	
Polysorbate 80 9005-65-6 90 - 100% Yes	

3. Hazards Identification

Emergency Overview

CAUTION! MAY CAUSE EYE IRRITATION.

SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 1 - Slight Flammability Rating: 1 - Slight Reactivity Rating: 1 - Slight Contact Rating: 1 - Slight Lab Protective Equip: GOGGLES; LAB COAT; PROPER GLOVES Storage Color Code: Green (General Storage)

Potential Health Effects

Inhalation:

Not expected to be a health hazard.

Ingestion:

Not expected to be a health hazard via ingestion. Large doses may produce abdominal spasms, diarrhea.

Skin Contact:

No adverse effects expected. May cause irritation or sensitization in sensitive individuals.

Eye Contact:

May cause mild irritation, possible reddening.

Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

No information found.

4. First Aid Measures

Inhalation:

Not expected to require first aid measures. Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

If large amounts were swallowed, give water to drink and get medical advice.

Skin Contact:

Not expected to require first aid measures. Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

5. Fire Fighting Measures

Fire:

Flash point: 148C (298F) CC Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved selfcontained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Clean-up personnel may require protective clothing. Absorb in sand or other inert material. Scoop up and containerize for disposal. Flush trace residues to sewer with soap and water. Containerized waste may be sent to an approved waste disposal facility.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:
None established.
Ventilation System:
Not expected to require any special ventilation.
Personal Respirators (NIOSH Approved):
Not expected to require personal respirator usage.
Skin Protection:
Wear protective gloves and clean body-covering clothing.
Eye Protection:
Use chemical safety goggles and/or a full face shield where splashing is possible.
Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: Amber liquid. **Odor:** Odorless. Solubility: Soluble in water. **Specific Gravity:** 1.08 pH: 5-7 (5% aqueous solution) % Volatiles by volume @ 21C (70F): No information found. **Boiling Point:** > 100C (> 212F) **Melting Point:** No information found. Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): < 1.0 @ 20C (68F) Evaporation Rate (BuAc=1): No information found.

10. Stability and Reactivity

Stability:
Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products:
Carbon dioxide and carbon monoxide may form when heated to decomposition.
Hazardous Polymerization:
Will not occur.
Incompatibilities:
Strong oxidizers, acids.
Conditions to Avoid:
Incompatibles.

11. Toxicological Information

Oral Rat LD50: 34500 ul/kg. Irritation Data (std Draize, rabbit): Eye = 150 mg, mild. Investigated as a tumorigen, mutagen, reproductive effector.

\Cancer Lists\			
-		Carcinogen	
Ingredient Category	Known	Anticipated	IARC
-			
Polysorbate 80 (9005-65-6)	No	No	None

12. Ecological Information

Environmental Fate: No information found. **Environmental Toxicity:** No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

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-----\Chemical Inventory Status - Part 1\-----
 Ingredient
                           TSCA EC Japan
Australia
 _____
                              ____ ____
 Polysorbate 80 (9005-65-6)
                           Yes No Yes Yes
 -----\Chemical Inventory Status - Part 2\-----
                               --Canada--
 Ingredient
                           Korea DSL NDSL Phil.
 _____
                           ---- ---
                                  -----
 Polysorbate 80 (9005-65-6)
                            Yes
                               Yes
                                 No
                                      Yes
 _ _
                        -SARA 302- ----SARA 313----
                        RQ TPQ List Chemical
Ingredient
Catq.
_____
                               _____
Polysorbate 80 (9005-65-6)
                        No
                           No
                              No
                                     No
 _ _
                              -RCRA-
                                   -TSCA-
 Ingredient
                        CERCLA 261.33 8(d)
                              _____
 _____
                        _____
                                   ____
 Polysorbate 80 (9005-65-6)
                        No
                             No
                                   No
Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
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SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No Reactivity: No (Pure / Liquid)
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Australian Hazchem Code: None allocated.

Poison Schedule: None allocated. **WHMIS:**

This MSDS has

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 1 Flammability: 0 Reactivity: 0 Label Hazard Warning: CAUTION! MAY CAUSE EYE IRRITATION. Label Precautions: Avoid contact with eyes. Keep container closed. Wash thoroughly after handling. Label First Aid: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists. **Product Use:** Laboratory Reagent. NOT INTENDED FOR INJECTABLE DRUG USE. **Revision Information:** No Changes. **Disclaimer:** *****

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