

POLYSORBATE-80

Material Safety Data Sheet (MSDS)

1. PRODUCT IDENTIFICATION

Product Name: polysorbate-80
INCI Name: polysorbate-80
Synonyms: tween-80, polyoxyethylene-20 sorbitan monooleate
CAS Number: 9005-65-6
EINECS Number:
Origin: synthetic

Eye Contact: May cause eye irritation
Skin Contact: May cause irritation
Ingestion: Not expected to be a health hazard. Large doses may produce abdominal spasms or diarrhea.

2. PHYSICAL & CHEMICAL PROPERTIES

Melting Point: not applicable
Boiling Point: >100°C/>212°F
Vapor Density, Air=1: no data available
Vapor Pressure: <1 mmHg at 20°C
Specific Gravity: 1.08 g/ml at 25°C
Solubility in water: soluble
pH Value: 5 - 7 (5% solution)
Appearance & Odor: yellow viscous liquid, no odor

8. FIRST AID MEASURES

Eyes: Irrigate eyes with a heavy stream of water for at least 20 minutes. Seek medical attention if symptoms persist.
Skin: Wash exposed areas of the body with plenty of water.
Inhalation: Remove from area of exposure. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.
Ingestion: Drink water. Do not induce vomiting. Consult medical personnel. Never give anything by mouth to an unconscious person.

3. STABILITY & REACTIVITY

Chemical Stability: stable under normal conditions
Incompatibility: May react with strong oxidizing agents
Hazardous Decomposition: biodegradable; burning can produce carbon monoxide and carbon dioxide
Hazardous Polymerisation: will not occur

9. FIRE FIGHTING MEASURES

Flash Point: 148°C (298°C)
Extinguishing Media: any available
Fire Fighting Procedures: Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

4. HANDLING & STORAGE

Avoid contact with eyes. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.
Avoid freezing or excessive heat. Do not handle or store near an open flame, heat or other sources of ignition. Keep the container tightly closed and in a cool, well-ventilated place.

10. TOXICOLOGICAL INFORMATION

Acute LD50: oral/rat 34500 ul/kg
Dermal and Eye Irritation Test: eye/rabbit 150mg
Carcinogenicity: no data available
Mutagenicity: no data available

5. ACCIDENTAL RELEASE MEASURES

Isolate spill area immediately. Keep unauthorized personnel away. Absorb spill 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.

11. DISPOSAL CONSIDERATIONS

Storage and disposal must be in accordance with applicable local, state & federal disposal regulations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

6. EXPOSURE CONTROLS & PERSONAL PROTECTION

Respiratory Protection: Where exposure likely exceeds acceptable criteria, use NIOSH/OSHA-approved respiratory equipment.
Protective Clothing: Gloves recommended to prevent prolonged skin contact. Safety glasses, goggles, or face shield recommended for eye protection.
Other Protective Measures: Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

12. TRANSPORT INFORMATION

DOT Shipping Name: Refer to corresponding hazard class
ADR/RIC Code: Refer to corresponding hazard class
Sea Transport IMDG Code: Refer to corresponding hazard class
Air Transport IATA: Refer to corresponding hazard class

7. HAZARDS IDENTIFICATION

General: May cause eye irritation.
Inhalation: no evidence from toxic effects from available information. Not a likely avenue of entry.

13. DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

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