MATERIAL SAFETY DATA SHEET



1. IDENTIFICATION

Product identifier

Product code: PO138

Product Name: POLYSORBATE 80

Other means of identification

Synonyms: TWEEN 80

Polyoxyethylene 20 sorbitan monooleate Polyethylene oxide sorbitan mono-oleate Polyoxyethylene sorbitan monooleate Polyoxyethylene sorbitan oleate

CAS #: 9005-65-6

RTECS # WG2932500

CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Emulsifying agent. **Uses advised against** No information available

Supplier Swadesh Life Science

H-103, Sumel 7, Near Soni ni chali

BRTS, Rakhiyal,

Ahmedabad, Gujarat, India

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Not classified

Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Polysorbate 80	9005-65-6	100

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call 1-800-222-

1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing

and shoes. Get medical attention if irritation develops.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms May cause eye/skin irritation

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon Monoxide, Carbon Dioxide.

Specific hazards: May be combustible at high temperatures. May be ignited

by heat, sparks or flames.

Special Protective Actions for Firefighters

Specific Methods:No information available.

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Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin,

eyes and clothing. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains

Methods and material for containment and cleaning up

Methods for containmentStop leak if you can do it without risk. Absorb spill with inert material (e.g.

vermiculite, dry sand or earth).

Methods for cleaning up

Use appropriate tools to put the spilled material in a suitable chemical waste

disposal container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors or spray mist. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Provide exhaust ventilation or

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other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

No information available

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles or Safety glasses with side-shields

Skin and body protection: Long sleeved clothing

Chemical resistant apron

Gloves

Respiratory protection: Respiratory protection is not necessary for normal handling. Good room

ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Liquid Oily. Light yellow. Yellow. Amber.

Odor: Taste Formula:

No information available. No information available. No information available

Molecular/Formula weight: Flammability: Flash point (°C):

No information available No information available >149

Flashpoint (°C/°F): Flash Point Tested according to: Autoignition Temperature
>149 °C/>300 °F Not available (°C/°F): No information available

THO CIPOUD I

Lower Explosion Limit (%): Upper Explosion Limit (%): Melting point/range(°C/°F): -

No information available No information available 20.56 °C/-5 °F

Decomposition temperature(°C/°F): Boiling point/range(°C/°F): Bulk density:

No information available > 100 °C/>212 °F

Density (g/cm3):

No information available Specific gravity: pH:

1.06-1.10 No information available

Vapor pressure @ 20°C (kPa): Evaporation rate: No Vapor density:

No information available information available No information available

VOC content (g/L): NoOdor threshold (ppm):Partition coefficientinformation availableNo information available(n-octanol/water): No

information available

Viscosity: Miscibility: Solubility:

No information available

No information available

Freely soluble in water
Soluble in Methanol



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10. STABILITY AND REACTIVITY

Conditions to avoid: Heat. Ignition sources. Incompatible materials.

Incompatible Materials: Strong oxidizing agents

Carbon oxides. When heated to decomposition it emits acrid smoke and irritating **Hazardous decomposition**

products:

Other Information

Corrosivity: No information available

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

fumes.

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Skin. Ingestion. Eyes.

Acute Toxicity

Component Information

Polysorbate 80

CAS-No. 9005-65-6 LD50/oral/rat = 34500 µL/kg Oral LD50 Rat; >38000 mg/kg

LD50/oral/mouse = 25000 mg/kg

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = > 38000 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 25000 mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat



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VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation May cause irritation of respiratory tract. However, no irritation is expected to be

associated with the inhalation of this material. No toxic effects are known to be

associated with the inhalation of this material.

IngestionHealth injuries are not known or expected under normal use. Not expected to be a

health hazard. This material is not likely to cause irritation upon ingestion. It is classified as "relatively harmless" by ingestion and considered to be a low ingestion hazard. Ingestion of very large doses may cause abdominal spasms and diarrhea. Animal studies have shown it to cause cardiac changes, changes in behavior (altered sleep time) upon IV administration. However, no similar

human data has been reported.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity La ingestión prolongada o repetida puede causar hipermotilidad y

diarrea. Prolonged or repeated ingestion may cause weight loss.

No information available.

Sensitization:

Mutagenic Effects: May affect genetic material

Carcinogenic effects: Not considered carcinogenic. Equivocal tumorigenic agent by Registery of Toxic

Effects of Chemical Substances (RTECS) criteria.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances	
Polysorbate 80	9005-65-6	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed	

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available



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Reproductive Effects:

Developmental Effects:

No information available

No information available

No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
No information available.
No information available.
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:

No data available.

Persistence and degradability:

No information available

Bioaccumulative potential: No information available. **Mobility:** No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Polysorbate 80	9005-65-6	None	None	None	None