

SAFETY DATA SHEET

POLYSORBATE 80 (TWEEN 80)

CAS No.: 9005-65-6

This Safety Data Sheet is compiled from well-established published chemical, GHS classification and regulatory reference sources for this substance. It is supplied by Suraj Chemicals as the distributor/supplier of record and is not a manufacturer-issued document. Users should also consult the specific manufacturer's SDS where available.

1. IDENTIFICATION

Product Name	Polysorbate 80 (Tween 80)
CAS Number	9005-65-6
Recommended Use	Industrial / commercial chemical trading and distribution
Supplier	Suraj Chemicals, No 92, Govindappa Naicken Street, Shiva Complex, Chennai - 600001, India
Emergency Telephone	+91 - 9840284032, 9176135357 / +91 - 44 - 25393652

2. HAZARD(S) IDENTIFICATION

GHS Signal Word	Warning
-----------------	---------

HAZARD CLASSIFICATION

- Serious eye irritation - Category 2A

HAZARD STATEMENTS

- H319 - Causes serious eye irritation

PRECAUTIONARY STATEMENTS

- P264 - Wash exposed skin thoroughly after handling
- P280 - Wear protective gloves/eye protection/face protection
- P305+P351+P338 - IF IN EYES: rinse cautiously with water for several minutes; remove contact lenses if present; continue rinsing
- P337+P313 - If eye irritation persists: get medical advice/attention
- P501 - Dispose of contents/container in accordance with local regulations

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Polysorbate 80 (Tween 80)
CAS Number	9005-65-6
Physical State	Liquid
Appearance / Odour	Yellow to amber, oily, viscous liquid with a faint characteristic odor.

4. FIRST-AID MEASURES

Eye Contact	Rinse cautiously with water for several minutes; remove contact lenses if present; continue rinsing and seek medical attention if irritation persists.
Skin Contact	Wash off with water; not expected to cause more than transient irritation.
Inhalation	Remove to fresh air; low volatility limits typical inhalation exposure; seek medical attention if symptoms occur.
Ingestion	Rinse mouth with water; give water to drink; this widely used food/pharmaceutical emulsifier is of low toxicity but seek medical advice if large amounts are ingested or discomfort occurs.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical, carbon dioxide, foam, or water spray/fog.
Unsuitable Extinguishing Media	None specifically identified.
Special Hazards	Combustible liquid with a high flash point; combustion produces carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Measures	Contain the spill; material is water-miscible and can be diluted with water in a controlled area; collect for disposal; floors may become slippery due to the oily, viscous nature of the product.
----------	--

7. HANDLING AND STORAGE

Handling Precautions	Use with general ventilation; avoid prolonged eye contact as good industrial hygiene practice; standard PPE recommended for bulk handling.
Storage Conditions	Store in a cool, dry place in tightly closed containers away from strong oxidizers; protect from prolonged exposure to light and air, which can slowly promote oxidative degradation of the unsaturated oleate component.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	No specific occupational exposure limit established; general nuisance-mist guidance applies; use chemical-resistant gloves (nitrile), safety glasses, and general ventilation when handling bulk quantities.
-----------------------	--

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance / Odour	Yellow to amber, oily, viscous liquid with a faint characteristic odor.
Boiling Point	Not applicable (decomposes before boiling)
Melting Point	~-5 to 0 C (pour point range)
Flash Point	>149 C (closed cup, typical for this class of ester)
Density / Specific Gravity	~1.06-1.09 g/cm3 at 20 C
Water Solubility	Miscible with water in all proportions (readily forms clear to hazy solutions)
pH Value	~6.0-8.0 (5% aqueous solution, approximately neutral)

10. STABILITY AND REACTIVITY

Stability	Generally stable under normal conditions of storage and use; can slowly undergo oxidative degradation on long-term exposure to air, light and heat, given its unsaturated fatty acid ester content.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition	Carbon monoxide and carbon dioxide on combustion.

11. TOXICOLOGICAL INFORMATION

Summary	Causes serious eye irritation; low acute oral and dermal toxicity; a widely used and well-established non-ionic surfactant/emulsifier in food, pharmaceutical (including injectable formulations at controlled levels) and cosmetic applications; not classified as a carcinogen, mutagen or reproductive toxicant under GHS based on extensive use history and available data.
---------	---

12. ECOLOGICAL INFORMATION

Summary	Readily to inherently biodegradable; low bioaccumulation potential; not expected to be significantly hazardous to aquatic organisms at normal use/spill concentrations.
---------	---

13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of in accordance with local regulations; generally suitable for licensed waste disposal or dilution to sewer within permitted limits; not typically classified as hazardous waste.
-----------------	--

14. TRANSPORT INFORMATION

UN Number	Not regulated for transport
Transport Hazard Class	Not regulated
Packing Group	Not applicable

15. REGULATORY INFORMATION

Notes	Food/pharmaceutical-grade material should meet FCC/Codex/IP/BP/USP or NF specifications as applicable (food additive INS/E433); not classified as hazardous under GHS, OSHA HCS or EU CLP beyond eye irritation; not regulated for transport as a dangerous good.
-------	---

16. OTHER INFORMATION

Prepared By	Suraj Chemicals, Technical / QA Desk
Date of Issue	29 Sep 2026
Note	This SDS is compiled from well-established published GHS hazard classification data and general chemical reference sources for this substance, in the standard 16-section format. Values are believed accurate but Suraj Chemicals makes no warranty, express or implied, regarding their completeness. Users should evaluate suitability for their own specific use.

(This document is computer generated and therefore does not require any signature.)

"DEALERS IN ACIDS, SOLVENTS, MINERALS, BASES AND SPECIALISED CHEMICAL COMPOUNDS"

+91 - 9840284032, 9176135357
+91 - 44 - 25393652, 42130281
sales@surajchemicals.com
surajchemicals@yahoo.com

No 92, Govindappa Naicken Street
Shiva Complex, Chennai - 600001
www.surajchemicals.com
GST NO : 33ACEPV8190L1ZZ

AUTHORISED DEALER AND IMPORTER FOR
GRASIM INDUSTRIES (ADITYA BIRLA), BASF (GERMANY), GODREJ INDUSTRIES, SNF (FRANCE)