



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
+91 86087 80096 · +91 81979 47045
admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

Tween 80 *SDS*

REV 3.1

29 JULY 2026

GHS REV.11 (2025)

CAS 9005-65-6

EC Polymer (UVCB substance)

SIGNAL WORD DANGER

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name	Tween 80
Product Type	Polysorbate 80 surfactant
Chemical Family	Non-ionic surfactant
CAS No.	9005-65-6
EC No.	Polymer (UVCB substance)
Intended Use	Industrial / professional use as listed on the SPC product page.
Restrictions on Use	Industrial / professional use only. Confirm grade suitability before regulated or consumer use.
Supplier	Supreme Petro Chemicals
Address	No. 145, 1st Floor, Raja Muthiah Road, Periyamet, Chennai – 600003, India
Emergency Contact	Sanketh — +91 86087 80096 · Sudarshan — +91 81979 47045
Email	admin@supremepetrochemicals.com
Product Page	https://www.supremepetrochemicals.com/products/tween-80
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Not classified as hazardous under GHS/CLP based on available data.

GHS Classification	Not classified
Signal Word	Not classified
GHS Pictograms	No GHS pictogram (Not classified)

HAZARD STATEMENTS



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- Not applicable — substance is not classified as hazardous.

PRECAUTIONARY – PREVENTION

- P260 — Do not breathe vapours or spray.
- P271 — Use only outdoors or in a well-ventilated area.
- P272 — Contaminated work clothing should not be allowed out of the workplace.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / eye protection / face protection.

PRECAUTIONARY – RESPONSE / STORAGE / DISPOSAL

- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P312 — Call a POISON CENTER or doctor if you feel unwell.
- P331 — Do NOT induce vomiting.
- P403+P235 — Store in a well-ventilated place. Keep cool.
- P501 — Dispose of contents / container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Polysorbate 80 (Tween 80)	9005-65-6	Polymer	100	Not classified

Percentages are by weight. Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Move to fresh air. If symptoms persist, obtain medical attention.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with water and soap. Seek medical attention if symptoms persist.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice.



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Note to Physician	Treat symptomatically based on exposure route and product hazards.
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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Water spray, foam, dry chemical or carbon dioxide suitable for surrounding fire.
Unsuitable Media	Direct high-pressure water jet where it may spread the material.
Specific Hazards	Combustion may produce irritating fumes. Containers may rupture when heated. Avoid dust clouds and ignition sources if product is finely dispersed.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA).
Special Procedures	Evacuate non-essential personnel. Prevent contaminated run-off from entering drains and waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Eliminate ignition sources. Ventilate the area. Bond/ground equipment. Avoid skin and eye contact; wear appropriate PPE (see Section 8).
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses.
Containment / Clean-up	Absorb with inert material (sand, vermiculite). Collect into labelled containers for disposal through an approved waste contractor.
Reference to Sections	See Section 8 for PPE, Section 13 for disposal and Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Avoid prolonged or repeated contact. Keep containers tightly closed. Handle in well-ventilated areas.
Hygiene	Wash hands after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using.
Storage Conditions	Store in original, tightly closed compatible containers. Inspect containers regularly for leakage or damage.
Storage Temperature	Store at ambient temperature (15–30°C) unless supplier instructions specify otherwise. Avoid freezing.



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Incompatible Materials	Strong oxidisers and product-specific incompatible substances; see supplier SDS before use.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	No specific OEL established for Polysorbate 80 (CAS 9005-65-6). Apply ALARA / good industrial hygiene practices. Verify applicable local OEL (OSHA / NIOSH / ACGIH / EU / India) if established.
Engineering Controls	Use closed handling systems or local exhaust ventilation for mist or aerosol. Use explosion-proof ventilation and grounding for heated product.
Respiratory Protection	If ventilation is inadequate, use a NIOSH / EN-approved respirator with organic vapour or particulate (P95/P100) cartridge as applicable. Use SCBA for emergencies.
Hand / Eye / Skin	Gloves: compatible chemical-resistant gloves (nitrile, butyl, neoprene, PVC or laminate); select appropriate thickness and breakthrough time. Eye/Face: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield for splash risk. Body: chemical-resistant clothing/apron and safety footwear. Provide eyewash and safety shower where appropriate.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow to amber viscous liquid.
Odour	Characteristic; faint fatty odour.
Odour Threshold	Not established.
pH	6.0–8.0 (10% aqueous solution at 25°C). See supplier specification / COA.
Melting / Freezing Point	Approx. –5°C to +5°C (supplier specification; typical range for commercial grade).
Boiling Point / Range	>100°C (decomposes before complete boiling at atmospheric pressure). Source value ">150°C" retained with caution — see flags.
Flash Point	>200°C (closed cup, estimated; typical literature value ≈ 210–290°C). Source listed "Not established" — corrected from chemistry knowledge; verify with supplier COA.
Auto-ignition Temperature	Not established.



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Flammability Limits	Not established (high flash point; negligible vapour at ambient temperature).
Vapour Pressure	Negligible at 20°C (high molecular weight polymer surfactant). Not established for commercial grade.
Vapour Density (air = 1)	Not applicable (negligible vapour at ambient temperature).
Relative Density	1.06–1.09 g/cm ³ at 20°C (typical literature value for Polysorbate 80; verify with supplier COA).
Solubility in Water	Miscible / freely dispersible in water at all concentrations.
Log Pow (Partition Coeff.)	Not established. UVCB / polymer substance; individual chain values not representative.
Evaporation Rate	Not established (negligible evaporation at ambient conditions).
Viscosity	Approx. 400–800 mPa·s at 25°C (dynamic; typical for commercial grade). Verify with supplier COA.
VOC Content	Negligible (high boiling point / low vapour pressure). Assess under applicable local VOC rules.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat, ignition sources, contamination and contact with incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Aluminium chloride (AlCl ₃) under elevated temperature — not a concern under normal ambient blending or storage.
Hazardous Decomposition	Carbon oxides and irritating or toxic fumes may be formed in fire.
Hazardous Reactions	No hazardous reactions under normal storage and handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Low acute toxicity expected; LD ₅₀ (rat, oral) reported as >2000 mg/kg in literature. May cause mild gastrointestinal irritation in large doses.
Acute Dermal Toxicity	Low acute toxicity expected; may cause mild transient irritation with prolonged contact.



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Acute Inhalation Toxicity	Low acute toxicity expected at ambient temperature (negligible vapour pressure). Mist/aerosol at elevated temperature may cause respiratory irritation.
Skin Irritation	Low irritation potential; may cause mild irritation with prolonged or repeated contact.
Eye Irritation	May cause mild transient irritation. Rinse immediately with water.
Sensitisation	Not classified as a skin sensitizer based on available data. Verify with supplier toxicology data.
Carcinogenicity	Not listed as carcinogen by IARC, NTP or OSHA. See Section 2 classification.
Mutagenicity	Not classified as mutagenic based on available data. Endpoint confirmation requires supplier / test data.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No GHS aquatic classification identified from reviewed data. Literature indicates moderate acute aquatic toxicity to aquatic organisms; avoid release to waterways.
Persistence / Degradability	Polysorbate 80 is considered readily biodegradable by OECD 301 criteria in several studies. Verify with supplier / ECHA data if required for registration.
Bioaccumulation	Low bioaccumulation potential (UVCB / high molecular weight surfactant). Verified log Kow / BCF data requires supplier formulation confirmation.
Mobility in Soil	Surfactant; mobile in soil and groundwater due to water solubility. Prevent release to soil and groundwater.
Other Adverse Effects	Avoid uncontrolled release to the environment. Manage releases and waste under applicable local environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorised waste contractor in accordance with local regulations. Do not discharge to drains or waterways without authorisation.
Contaminated Packaging	Empty containers may retain residues; handle as hazardous until cleaned or disposed of through an approved route.



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Indian Regulations

Follow applicable MSIHC Rules, Hazardous Waste (Management, Handling and Transboundary Movement) Rules and State Pollution Control Board requirements.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	Not regulated	Not regulated	Not regulated
Proper Shipping Name	Not dangerous goods	Not dangerous goods	Not dangerous goods
Class	Not regulated	Not regulated	Not regulated
Packing Group	Not applicable	Not applicable	Not applicable
Marine Pollutant	Not designated	Not designated	Not applicable

Tween 80 (Polysorbate 80) is not classified as a dangerous good under ADR, IMDG or IATA DGR based on available data. Use approved compatible containers. Verify current carrier / regulatory requirements before shipment. UN-certified drums required for international transport where applicable.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP

Classified and labelled according to the GHS/CLP classification listed in Section 2. REACH: verify registration status for import / distribution volumes. Observe all REACH and CLP requirements where applicable.

OSHA (USA)

Prepared in OSHA HCS / HazCom 2012 aligned 16-section SDS format. Verify TSCA inventory / SNUR status before US import or distribution; UVCB / polymer status may require supplier confirmation.

India

Observe applicable MSIHC Rules, Factories Act, Hazardous Waste Rules, Water/Air (Prevention and Control of Pollution) Acts and State Pollution Control Board requirements.

Other Jurisdictions

Canada WHMIS 2015 / HPR: classify / label using Section 2 classification; Canadian sale may require bilingual SDS / label and ingredient disclosure. China: use applicable GB/T SDS and classification requirements. Australia (AICS): check inventory status before export or import. GCC / Middle East: observe applicable GHS-aligned local requirements. Final market placement requires confirmation of inventory status, local OELs, transport class, waste code and restrictions.



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SECTION 16 OTHER INFORMATION

Prepared By	Supreme Petro Chemicals — Technical Department
SDS Standard	UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR — 16-section format
Revision Date	24 June 2026
Version	3.0 (supersedes prior issues)
Disclaimer	Information is given in good faith and believed accurate at issue. It does not constitute a specification or guarantee; the user is responsible for safe use, handling and compliance.

FULL TEXT OF H-STATEMENTS

- Not applicable — substance is not classified as hazardous under GHS. No H-statements assigned.