



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
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SAFETY DATA SHEET (SDS)

Tween 20 (Polysorbate 20)

SDS

REV 3.1
29 JULY 2026
GHS REV.11 (2025)

CAS **9005-64-5** EC **Polymer (UVCB)** SIGNAL WORD **DANGER**

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

Product Name	Tween 20
Product Type	Polysorbate 20 surfactant
Chemical Family	Non-ionic surfactant (polyoxyethylene sorbitan monolaurate)
CAS No.	9005-64-5
EC No.	Polymer (UVCB)
Intended Use	Industrial / professional use as listed on the SPC product page. Used as emulsifier, solubiliser and wetting agent in cosmetics, pharmaceuticals, food processing, laboratory reagents and industrial formulations.
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-20
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Not classified as hazardous under GHS / CLP / OSHA HCS for the substance as supplied.

GHS Classification Not classified



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Signal Word	Not classified
GHS Pictograms	No GHS pictogram required

HAZARD STATEMENTS

- No hazard statements assigned (substance is not classified as hazardous under GHS Rev.11).

PRECAUTIONARY – PREVENTION

- P260 – Do not breathe vapours or spray.
- P271 – Use only outdoors or in a well-ventilated area.
- 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.
- 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 20 (Polyoxyethylene (20) sorbitan monolaurate)	9005-64-5	Polymer (UVCB)	100	Not classified

Percentages are by weight. Full text of H-statements listed in Section 16. No hazardous ingredients above classification thresholds identified.

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 soap and water. Seek medical attention if irritation or symptoms persist.



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Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice.
Note to Physician	Treat symptomatically based on exposure route and product hazards. No specific antidote known.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Water spray, foam, dry chemical powder or carbon dioxide (CO ₂) appropriate for surrounding fire conditions.
Unsuitable Media	Do not use direct high-pressure water jet where it may spread the material.
Specific Hazards	Product has a high flash point and is not readily ignitable under ambient conditions. Combustion may produce irritating fumes including carbon oxides. Containers may rupture when exposed to intense heat.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Evacuate non-essential personnel from the area.
Special Procedures	Prevent contaminated fire-fighting run-off from entering drains and waterways. Cool fire-exposed containers with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ventilate the area. Avoid skin and eye contact. Wear appropriate PPE (see Section 8). Eliminate ignition sources if vapour risk exists.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. If release reaches a waterway or public drain, notify authorities as required.
Containment / Clean-up	Absorb spill with inert material (sand, vermiculite, dry earth) and transfer to labelled containers for disposal through an approved waste contractor. Flush contaminated area with water.
Reference to Sections	See Section 8 for PPE, Section 13 for disposal and Section 15 for regulatory information.



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SECTION 7 HANDLING AND STORAGE

Handling Precautions	Avoid contact with eyes and prolonged skin contact. Keep containers tightly closed when not in use. Use in well-ventilated areas.
Hygiene	Wash hands thoroughly after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using.
Storage Conditions	Store in original, tightly closed compatible containers (HDPE, stainless steel). Inspect containers regularly for leakage or damage.
Storage Temperature	Store at ambient temperature (typically 15–30°C) unless supplier instructions specify otherwise. Keep away from heat sources.
Incompatible Materials	Strong oxidising agents (e.g. nitric acid, chlorine, permanganates, peroxides). Avoid concentrated acids and halogens.
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 20 (CAS 9005–64–5) under OSHA, NIOSH, ACGIH, EU OELs or Indian CPCB/MoEFCC at time of issue. Apply ALARA / good industrial hygiene principles. Verify applicable regional OEL before use.
Engineering Controls	Use closed handling systems or local exhaust ventilation to control mist and vapour generation during heating or agitation. Explosion-proof ventilation and grounding recommended where flammable vapours may occur.
Respiratory Protection	Not required under normal handling conditions with adequate ventilation. If ventilation is inadequate or mist is generated, use a NIOSH/EN-approved respirator with an organic vapour cartridge or P95/P100 particulate filter as applicable. Use SCBA for emergencies.
Hand / Eye / Skin	Gloves: compatible chemical-resistant gloves (e.g. nitrile, butyl, neoprene or PVC); select appropriate breakthrough time for task. Eyes: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield for splash risk. Body: chemical-resistant apron or clothing and safety footwear. Provide eyewash station and safety shower where appropriate.



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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow to amber viscous liquid.
Odour	Characteristic (faint fatty / oily odour).
Odour Threshold	Not established.
pH	Approx. 6–8 (as 5% aqueous solution). Verify from supplier CoA/SDS; not applicable to undiluted neat product.
Melting / Freezing Point	Not established (waxy / pourable at ambient; no sharp melting point for this UVCB polymer).
Boiling Point / Range	>150°C (decomposition may occur before boiling; high-boiling surfactant polymer).
Flash Point	Approx. 113°C (closed cup, as reported for commercial Polysorbate 20 grades). Verify from supplier specification.
Auto-ignition Temperature	Not established.
Flammability Limits	Not established.
Vapour Pressure	Not established (very low at ambient temperature due to high boiling range).
Vapour Density (air = 1)	Not established (high molecular weight polymer; negligible vapour at ambient conditions).
Relative Density	Approx. 1.09–1.11 g/mL at 20°C (typical commercial Polysorbate 20). Verify from supplier specification.
Solubility in Water	Soluble / dispersible in water (and many polar solvents) at all proportions.
Log Pow (Partition Coeff.)	Not established for supplied commercial grade (UVCB / polymer mixture).
Evaporation Rate	Not established (very low; negligible volatility at ambient temperature).
Viscosity	Approx. 270–450 mPa·s at 25°C (typical for commercial grade). Verify from supplier specification.
VOC Content	Negligible (high molecular weight, low volatility polymer surfactant). 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 incompatible materials. Avoid prolonged exposure to elevated temperatures which



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	may cause degradation.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Reactive with aluminium chloride (AlCl_3) under elevated temperature – not a concern in ambient blending or storage.
Hazardous Decomposition	Carbon oxides (CO , CO_2) and irritating or toxic fumes may be formed upon combustion or thermal decomposition. Possible formation of acrolein and other aldehydes at high temperatures.
Hazardous Reactions	No hazardous reactions under normal storage and handling conditions. Will not polymerise or detonate under normal conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Low acute oral toxicity expected based on substance class. LD_{50} (rat, oral) not formally established for this UVCB; literature values for Polysorbate 20 suggest $\text{LD}_{50} > 5,000$ mg/kg. Confirm with supplier test data.
Acute Dermal Toxicity	Low acute dermal toxicity expected. May cause mild skin irritation on prolonged contact. Confirm with supplier data.
Acute Inhalation Toxicity	Low inhalation hazard under ambient conditions (low volatility). Mist or vapour at elevated temperatures may cause mild respiratory irritation.
Skin Irritation	May cause mild irritation on prolonged or repeated contact. Not classified as a skin irritant under GHS based on available data.
Eye Irritation	May cause mild transient eye irritation. Not classified as a serious eye irritant under GHS based on available data.
Sensitisation	Not classified as a skin or respiratory sensitiser. Confirm with supplier data.
Carcinogenicity	Not classified as carcinogenic. Not listed on IARC, NTP or OSHA carcinogen lists. Endpoint-specific assessment: see Section 2 and Section 3.
Mutagenicity	Not classified as mutagenic. No specific data indicating genotoxic potential. Endpoint-specific assessment requires supplier/test confirmation.



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SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No aquatic toxicity classification identified in Section 2 from reviewed data. Polysorbate 20 is generally considered of low aquatic toxicity at typical concentrations; however, as a surfactant it may affect surface tension and gill function at high concentrations. Numeric ecotoxicity data requires supplier/test confirmation. Avoid release to water.
Persistence / Degradability	Polysorbate 20 is reported to be readily biodegradable under aerobic conditions (BOD/COD data available in literature). Confirm with supplier or ECHA REACH dossier data where required.
Bioaccumulation	Low bioaccumulation potential expected (high molecular weight, water-soluble polymer). Verify log Kow / BCF data from supplier for regulatory submissions.
Mobility in Soil	High water solubility indicates potential mobility in soil and groundwater if released. Prevent release to soil and groundwater.
Other Adverse Effects	Avoid uncontrolled release to the environment. As a surfactant, may cause foaming in water bodies at elevated concentrations. 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, state and national regulations. Do not pour large quantities down drains; small amounts may be flushed with large volumes of water where permitted by local authority.
Contaminated Packaging	Empty containers may retain product residues; handle as potentially hazardous until cleaned or disposed of properly. Offer rinsed containers to recycling where permitted.
Indian Regulations	Comply with the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules and applicable State Pollution Control Board requirements. Assign European Waste Code (EWC) or equivalent waste code according to actual use and applicable local regulation.



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SECTION 14 TRANSPORT INFORMATION

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

Tween 20 (Polysorbate 20) is not regulated as a dangerous good under ADR, IMDG or IATA DGR based on current GHS / transport classification. Ship in approved compatible containers (HDPE drum or IBC). Verify current carrier rules and any quantity-related requirements before shipment. Note in source SDS referring to Class 3 / PG II placard is erroneous for this non-classified substance and has been removed.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Observe REACH and CLP requirements where applicable. Classified and labelled according to the GHS/CLP classification listed in Section 2 (Not classified). Substance is a polymer/UVCB; REACH registration requirements depend on tonnage and substance identity — verify with supplier.
OSHA (USA)	Prepared in OSHA HCS/HazCom 2012-aligned 16-section SDS format. Verify TSCA inventory or SNUR status before US import or distribution; UVCB/polymer status may require supplier confirmation.
India	Observe applicable Indian MSIHC Rules, Environment Protection Act, Hazardous Waste Rules, CPCB guidelines and State Pollution Control Board requirements. No specific restricted-substance listing identified for Polysorbate 20 under Indian regulations at time of issue.
Other Jurisdictions	China: Use applicable GB/T SDS and classification requirements where marketed. Canada: Classify/label under WHMIS 2015/HPR using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure. Australia: Check AICS inventory status before import. Middle East/GCC: Observe applicable GHS-aligned local requirements. Final market placement requires



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confirmation of inventory status, local OELs, transport class, waste code and any restrictions.

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

- No H-statements assigned — Tween 20 (Polysorbate 20, CAS 9005-64-5) is not classified as hazardous under GHS Rev.11 (2025), EU CLP or OSHA HCS based on available data.