



Specialized in chemicals

Hefei TNJ Chemical Industry Co.,Ltd.

B911 Xincheng Business Center,
Qianshan Rd. Hefei 230022 China

Tel : (0086) 551 65418682

Fax: (0086) 551 65418697

Email: info@tnjchem.com

Site: www.tnjchem.com

Material Safety Data Sheet

POLYSORBATE 80

Section 1: Chemical Product and Company Identification

MSDS Name: POLYSORBATE 80

Synonyms: TWEEN 80; polyoxyethylene (20) sorbitan monooleate

Contact Information for Emergency: (0086) 551 65418682

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230004Anhui

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China

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS # %	By Weight
POLYSORBATE 80	9005-65-6	100%

Section 3: Hazards Identification

Eye contact: Unlikely to cause eye irritation in man.

Skin contact: Unlikely to cause skin irritation in man.

Inhalation: Unlikely to be hazardous by inhalation.

Ingestion: This material is not likely to cause irritation upon ingestion.

Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract.

Section 4: First Aid Measures

Eyes: Immediately rinse eyes with running water for 15 minutes. If irritation develops, get medical attention.

Skin: Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, get medical attention.

Ingestion: Wash out mouth with water and induce vomiting. If the patient is conscious, give water to drink. If the patient feels unwell, seek medical attention.

Inhalation: Move to fresh air. If necessary, get immediate medical attention.

Section 5: Fire and Explosion Hazard Data

Extinguishing Media: Use water, dry extinguishing media, carbon dioxide (CO₂) or foam.

Fire Fighting Procedures: Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

Section 6: Accidental Release Measures

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

Measures for environmental protection:

Do not allow material to be released to the environment without proper governmental permits.

Spills/Leaks:

Spills should be contained in suitable containers. Do not enter into water way and drains

Additional information:

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7: Handling and storage

Handling: No special precautions are necessary if used correctly.

Storage: storage in cool, dry conditions in room temperature. And keep away from oxidizing agents and ignition sources.

Section 8: Exposure controls/personal protection

Engineering measures: Provide adequate ventilation.

Eye protection: Safety glasses with side shields.

Skin protection: Good working practice suggests gloves should be worn.

Respiratory protection: Respiratory protection is not required if good ventilation is maintained

Other: Eyewash and safety shower easily accessible to the work area.

Section 9: Physical and chemical properties

Physical State: liquid

Color: yellow

Odor: mild

pH: 5~7

Vapor Pressure: No data

Viscosity: No data

Boiling PFreezing/Melting Point: Not applicable

Autoignition Temperature: Not applicable

Flash Point: >149 °C

Explosion Limits, lower: Not applicable

Explosion Limits, upper: Not applicable

Decomposition Temperature: Not applicable

Solubility in water: soluble

Density at 80°C: ~1.01; >100 °C

Section 10: Stability and reactivity

Stability: Stable under normal conditions.

Materials to avoid: Strong oxidising agents.

Conditions to avoid: None known

Hazardous decomposition products: None known

Hazardous polymerisation: Will not occur

Section 11: Toxicological information

Acute toxicity: LD50 rat 42.2g/kg

Sensitization: No effects known.

Carcinogenicity: No effects known

Section 12: Ecological information

General notes:

Do not allow material to be released to the environment without proper governmental permits.

Section 13: Disposal considerations

Product:

Recommendation: Consult state, local or national regulations to ensure proper disposal.

Uncleaned packages:

Recommendation: Disposal must be made according to official regulations

Section 14: Transport information

Not a hazardous material for transportation

Label Required: N/A

Placard Required: N/A

Poison Constituent:N/A

Section 15: Regulatory information

Not Classified as Dangerous for Supply/Use.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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