Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name Polysorbate 80 NF
Commercial Name TWEEN 80
Product Use Surfactant
Restrictions On Use Not available.

Product Code 30-1075

Company
PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: CFR 1910.1200 Not available.

Signal Word NON-HAZARDOUS

Hazard Statement(s) Not available

Pictogram(s) or Symbol(s)

Precautionary Statement(s):

Prevention Not available.
Response Not available.
Storage Not available.
Disposal Not available.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components POLYSORBATE 80
% By Weight 100
CAS# 9005-65-6
Molecular Weight 1131.9 g/mole
Chemical Formula C64H126O26
Synonym(s) Polyoxyethylene 20 sorbitan monooleate

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
POLYSORBATE 80	9005-65-6	100	Not available.	Acute oral toxicity (LD50): 25000 mg/kg [Mouse].

Section 4: First-Aid Measures

Inhalation	If breathed in, move person into fresh air. If symptoms persist, call a physician.
Skin Contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
Eye Contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion	If large quantities of this material are swallowed, call a physician immediately.
Symptoms/Effects	
Acute	Not available.
Delayed	Not available.

Immediate Medical Attention
Not available.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
High volume water jet

Products of Combustion
Not available.

Firefighters Special Equipment and Precautions
Do not use a solid water stream as it may scatter and spread fire. Do not allow run-off from fire fighting to enter drains or water courses. In the event of fire, wear self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Ensure adequate ventilation. Methods and materials for containment and cleaning up: Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

Section 7: Handling and Storage

Advice on protection against fire and explosion: Normal measures for preventive fire protection. Advice on safe handling: Handle in accordance with good industrial hygiene and safety practice. Conditions for safe storage: Store in original container. Keep container tightly closed in a dry and well-ventilated place. Materials to avoid: No special restrictions on storage with other products.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Not available.
Engineering Controls	Not available.
Personal Protection	Respiratory protection: No personal respiratory protective equipment normally required. Hand protection Remarks: For prolonged or repeated contact use protective gloves. Eye protection: Safety glasses Skin and body protection: Impervious clothing Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

Appearance	Liquid. Color: yellow-orange
Odor	Not available.
Odor Threshold	Not available.

Melting Point	Not available.	**pH**	6.5 - 7.5
Freezing Point	Not available.	**Vapor Pressure**	<_ 1.0000
Boiling Point/Range	> 100 °C	**Vapor Density**	Not available.
Decomposition temperature	Not available.	**Viscosity**	Viscosity, dynamic approximately 4
Partition Coefficient: n-octanol/water	Not available.	**Evaporation Rate**	Not available.
Flash Point	> 148.9 °C open cup	**Autoignition temperature**	Not available.
Flammability	Not available.	**Flammability or Explosive Limits:**	
		Lower	Not available.
		Upper	Not available.

Solubility(ies)	soluble in ethanol and isopropanol
Other	Relative density: approximately 1.07

Section 10: Stability and Reactivity

Reactivity	Not available.
Chemical Stability	Stable under normal conditions.
Hazardous Polymerization	No dangerous reaction known under conditions of normal use.
Conditions to Avoid	Not available.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Carbon oxides

Section 11: Toxicological Information

RTECS WG2935000

Acute Toxicity
Acute oral toxicity: LD50 (Rat): 20,000 mg/kg Test substance: 100% Remarks: Low acute toxicity.

Skin Corrosion/Irritation
Not irritating

Serious Eye Damage/Irritation
Not irritating

Respiratory or Skin Sensitization
Not irritating

Germ Cell Mutagenicity
Not available.

Carcinogenicity
Not available.

Reproductive Toxicity
Not available.

Routes of Entry
Not available.

Symptoms Related to Exposure
Not available.

Potential Health Effects
Not available.

Target Organ(s) Not available.

Section 12: Ecological Information

Ecotoxicity
Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 471 mg/l Exposure time: 96 h Test Type: static test Method: static test Toxicity to daphnia and other aquatic invertebrates: LC50 (Mysidopsis bahia): 165 mg/l Exposure time: 96 h Test Type: static test Toxicity to microorganisms: IC0 (Pseudomonas putida): > 10,000 mg/l

Persistance and Degradability
Test Type: static test Biodegradation: 100 % Exposure time: 100 d Test Type: (OECD 301B) Result: Biodegradable Biodegradation: 64 % Exposure time: 29 d Method: OECD Test Guideline 301B GLP: yes

Bioaccumulative Potential
Not available.

Mobility in Soil
Not available.

Other Adverse Effects
Not available.

Section 13: Disposal Considerations

Waste Disposal
Dispose of in accordance with local regulations.

Disposal of Container
Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Other Considerations
Not available.

Section 14: Transport Information

DOT Classification
DOT Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

Section 15: Regulatory Information

Regulations
EPCRA - Emergency Planning and Community Right-to-Know SARA 302 Extremely Hazardous Substances Threshold Planning Quantity This material does not contain any components with a section 302 EHS TPQ. SARA 311/312 Hazards : No SARA Hazards SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. US State Regulations Pennsylvania Right To Know Alkoxylate 9005-65-6 New Jersey Right To Know Alkoxylate 9005-65-6 California Prop. 65 This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Other
Not available.

Section 16: Other Information

We assigned NFPA ratings and HMIS ratings to this product based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product MSDS.