



## Safety Data Sheet

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

Polysorbate 80 NF

30-1075

### 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:** Not available.  
**CFR 1910.1200**  
**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** C<sub>64</sub>H<sub>126</sub>O<sub>26</sub>  
**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**

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

<b>Exposure Limits</b>	Not available.
<b>Engineering Controls</b>	Not available.
<b>Personal Protection</b>	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**

<b>Appearance</b>	Liquid. Color: yellow-orange		
<b>Odor</b>	Not available.		
<b>Odor Threshold</b>	Not available.		
<b>Melting Point</b>	Not available.	<b>pH</b>	6.5 - 7.5
<b>Freezing Point</b>	Not available.	<b>Vapor Pressure</b>	<_ 1.0000
<b>Boiling Point/Range</b>	> 100 °C	<b>Vapor Density</b>	Not available.
<b>Decomposition temperature</b>	Not available.	<b>Viscosity</b>	Viscosity, dynamic approximately 4
<b>Partition Coefficient: n-octanol/water</b>	Not available.	<b>Evaporation Rate</b>	Not available.
<b>Flash Point</b>	> 148.9 °C open cup	<b>Autoignition temperature</b>	Not available.
<b>Flammability</b>	Not available.	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	Not available.
		<b>Upper</b>	Not available.
<b>Solubility(ies)</b>	soluble in ethanol and isopropanol		
<b>Other</b>	Relative density: approximately 1.07		

**Section 10: Stability and Reactivity**

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



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### 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

### Persistence 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.