# Material Safety Data Sheet

## Section I. Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TWEEN #80 (=Polyoxyethylene Sorbitan Monooleate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalog Number</td>
<td>T0546</td>
</tr>
<tr>
<td>Synonym</td>
<td>Polysorbate 80</td>
</tr>
<tr>
<td>Chemical Formula</td>
<td>Not available.</td>
</tr>
<tr>
<td>CAS Number</td>
<td>9005-65-6</td>
</tr>
<tr>
<td>Supplier</td>
<td>TCI America</td>
</tr>
<tr>
<td>Address</td>
<td>9211 N. Harborgate St. Portland OR</td>
</tr>
<tr>
<td>Phone</td>
<td>1-800-423-8616</td>
</tr>
</tbody>
</table>

## Section II. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Percent (%)</th>
<th>TLV/PEL</th>
<th>Toxicology Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tween #80</td>
<td>9005-65-6</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

## Section III. Hazards Identification

### Acute Health Effects

No specific information is available in our database regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound.

### Chronic Health Effects

CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.

There is no known effect from chronic exposure to this product. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

## Section IV. First Aid Measures

### Eye Contact

Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. DO NOT use an eye ointment. Flush eyes with running water for a minimum of 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention. Treat symptomatically and supportively.

### Skin Contact

If the chemical gets spilled on a clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim’s exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. Cover the irritated skin with an emollient. Seek medical attention. Treat symptomatically and supportively. Wash any contaminated clothing before reusing.

### Inhalation

If the victim is not breathing, perform artificial respiration. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention. Treat symptomatically and supportively.

### Ingestion

INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt, or waistband. If the victim is not breathing, administer artificial respiration. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Seek immediate medical attention and, if possible, show the chemical label. Treat symptomatically and supportively.

## Section V. Fire and Explosion Data

### Flammability

Combustible.  

### Flash Points

>230°C (464°F).  

### Combustion Products

These products include toxic carbon oxides (CO, CO₂).

### Fire Hazards

No specific information is available regarding the flammability of this compound in the presence of various materials.
Section VI. Accidental Release Measures

Spill Cleanup Instructions
- Keep away from heat and sources of ignition. Mechanical exhaust required.
- Stop leak if without risk. Finish cleaning the spill by rinsing any contaminated surfaces with copious amounts of water.
- Consult federal, state, and/or local authorities for assistance on disposal.

Section VII. Handling and Storage

Handling and Storage Information
- Keep away from heat and sources of ignition. Mechanical exhaust required.
- When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. Do not breathe gas, fumes, vapor or spray. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Treat symptomatically and supportively. Avoid contact with skin and eyes.
- Always store away from incompatible compounds such as oxidizing agents, alkalis (bases), and heavy metal salts.

Section VIII. Exposure Controls/Personal Protection

Engineering Controls
- Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
- Ensure that eyewash station and safety shower is proximal to the work-station location.

Personal Protection
- Splash goggles. Lab coat. Vapor respirator. Boots. Gloves. A MSHA/NIOSH approved respirator must be used to avoid inhalation of the product.
- Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits
- Not available.

Section IX. Physical and Chemical Properties

Physical state @ 20°C: Viscous yellow liquid.
- Molecular Weight: Not available.
- Boiling Point: Not available.
- Melting Point: Not available.
- Refractive Index: Not available.
- Critical Temperature: Not available.
- Viscosity: Not available.
- Odor: Not available.
- Taste: Not available.

Solubility: Easily soluble in cold water, hot water. Soluble in methanol.
- Specific Gravity: 1.064 (water=1)
- Partition Coefficient: Not available.
- Vapor Pressure: <1 mm of Hg (@ 20°C)
- Vapor Density: Not available.
- Volatility: Not available.

Section X. Stability and Reactivity Data

Stability: This material is stable if stored under proper conditions. (See Section VII for instructions)
- Conditions of Instability: Avoid excessive heat and light.
- Incompatibilities: Reactive with oxidizing agents, alkalis (bases), and heavy metal salts.

Section XI. Toxicological Information

RTECS Number: WG2932500
- Routes of Exposure: Eye contact. Inhalation. Ingestion.
- Toxicity Data: Not available.
- Chronic Toxic Effects: CARCINOGENIC EFFECTS: Not available.
- MUTAGENIC EFFECTS: Not available.
- TERATOGENIC EFFECTS: Not available.
- DEVELOPMENTAL TOXICITY: Not available.
- There is no known effect from chronic exposure to this product. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

Acute Toxic Effects: No specific information is available in our database regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound.

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Emergency phone number: (800) 424-9300
Section XII. Ecological Information

Ecotoxicity
Not available.

Environmental Fate
Not available.

Section XIII. Disposal Considerations

Waste Disposal
Recycle to process, if possible. Consult your local or regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state, and local regulations when disposing of this substance.

Section XIV. Transport Information

DOT Classification
Not a DOT controlled material (United States).

PIN Number
Not applicable.

Proper Shipping Name
Not applicable.

Packing Group (PG)
Not applicable.

DOT Pictograms

Section XV. Other Regulatory Information and Pictograms

TSCA Chemical Inventory
This product is ON the EPA Toxic Substances Control Act (TSCA) inventory list.

(EEC)

WHMIS Classification
Not controlled under WHMIS (Canada).

(EPA)

EINECS Number (EEC)
Not available.

EEC Risk Statements
Not available.

Japanese Regulatory Data
Not available.

Section XVI. Other Information

Version 1.0

Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.