
Safety Data Sheet

Product Name	Tween 80
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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification:**Product Description:** Tween 80**Synonyms:** Polyethylene glycol sorbitan monooleate, Polyoxyethylene(20) sorbitan monooleate, Polysorbate 80**CAS-No:** 9005-65-6**EC-No.:** 500-019-9**Molecular Formula:** No data available**REACH Registration No:** A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.**1.2. Relevant identified uses of the substance or mixture and uses advised against:****Recommended Use:** Laboratory chemicals and Pharmaceutical excipient.**1.3. Details of the supplier of the safety data sheet:**

- **Company** **Finar Limited**
184-186/P, Chacharwadi Vasna,
Sarkhej-Bavla Highway,
Ta.: Sanand, Dist.: Ahmedabad-382110, Gujarat, India.
Web: www.finarchemicals.com
- **E-Mail Address** safety.finar@aceto.com; info.finar@aceto.com

1.4. Emergency Telephone Number:

- For Emergency contact on: +91 - 2717 - 616 717

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SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture:**

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2. Label Elements:

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.3. Other Hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substances:** Tween 80**3.2. Mixtures:**

Component	CAS-No	EC-No.	Weight %
Tween 80	9005-65-6	500-019-9	100

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures:**

- **If inhaled**

After inhalation: fresh air.

- **If Contact with skin**

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

- **In case of eye contact**

After eye contact: rinse out with plenty of water. Remove contact lenses.

- **If swallowed**

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2. Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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4.3. Indication of any immediate medical attention and special treatment needed:

No data available

SECTION 5: FIREFIGHTING MEASURES**5.1. Extinguishing media:**

Suitable Extinguishing Media- Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture:

Nature of decomposition products not known.

Combustible liquid.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

5.3. Advice for firefighters:

In the event of fire, wear self-contained breathing apparatus.

5.4 Further Information:

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures:**

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2. Environmental precautions:

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up:

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material.

Dispose of properly. Clean up affected area.

6.4. Reference to other sections:

For disposal see Sections 13.

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SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling:**

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid contact with skin, eyes or clothing.

7.2. Conditions for safe storage, including any incompatibilities:**Storage conditions**

Keep containers tightly closed in a dry and well-ventilated place. Store indoors.

Incompatible Materials. Strong oxidizing agents. Bases. Heavy metals.

7.3. Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters:****Ingredients with workplace control parameters****8.2. Exposure Controls:****Personal Protective Equipment:****- Eye & Face Protection-**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

- Hand Protection -

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact: -

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm

Break through time: 480 min

Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M)

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those stated in EN374 please contact the supplier of CE-approved gloves
(e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Splash contact: -

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 30 min

Material tested: KCL 741 Dermatril® L

- **Respiratory Protection-**

Not required, except in case of aerosol formation.

- **Environmental Exposure Controls-**

Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

- **Appearance:** Yellow
- **Physical State:** Viscous Liquid
- **Odor:** No data available
- **Odor Threshold:** No data available
- **pH:** 6.0 in 10 % aq. solution
- **Melting Point:** No data available
- **Critical Temperature:** No data available
- **Vapor Pressure:** <1 hPa at 20 °C
- **Vapor Density:** > 1.0
- **Specific Gravity:** 1.080
- **Auto-Ignition Temperature:** No data available
- **Ignition Temperature:** No data available
- **Volatility:** No data available
- **Density:** 1.07 g/cm³ at 25 °C
- **Viscosity:** 400 mPa.s at 25°C
- **Water/Oil Dist. Co eff.:** No data available

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- **Partition Co-efficient: n-octanol/Water:** No data available
- **Ionicity (in Water):** No data available
- **Lower Explosion Limit:** No data available
- **Upper Explosion Limit:** No data available
- **Boiling Point/Range:** No data available
- **Evaporation Rate:** > 1 (Ether = 1.0)
- **Flash Point:** > 110 °C
- **Water Solubility:** Partially soluble

9.2. Other information:

- **Molecular Weight:** No data available
- **Molecular Formula:** No data available

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity:**

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2. Chemical stability:

The product is chemically stable under standard ambient conditions (room temperature).

10.3. Possibility of hazardous reactions:

Violent reactions possible with: Strong oxidizing agents

10.4. Conditions to avoid:

Incompatible products. Excess heat.

10.5. Incompatible materials:

Strong oxidizing agents, Bases, Heavy metals

10.6. Hazardous decomposition products:

Carbon monoxide (CO), Carbon dioxide (CO₂)

In the event of fire : See section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

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11.1 Information on toxicological effects:

Acute toxicity

LD50 Oral - Rat - 34.500 mg/kg

Remarks: (RTECS)

Inhalation: No data available

Dermal: No data available

Skin irritation

Skin - Rabbit

Result: No skin irritation

Remarks: (External MSDS)

Eye irritation

Eyes - Rabbit

Result: No eye irritation

Remarks: (External MSDS)

Sensitisation

No data available

Germ cell mutagenicity

No data available

Test Type: Ames test

Test system: Salmonella typhimurium

Result: negative

Remarks: (National Toxicology Program)

Test Type: Mutagenicity (mammal cell test):

Result: negative

Remarks: (National Toxicology Program)

Carcinogenicity

No data available

Reproductive toxicity

No data available

Teratogenicity

No data available

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Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Further Information:

RTECS: WG2932500

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity:****Toxicity to fish**

No data available

Toxicity to daphnia and other aquatic invertebrates

No data available

Toxicity to algae

No data available

12.2 Persistence and degradability:

Biodegradability Result: 52 % - Not readily biodegradable. (OECD Test Guideline 301C)

Chemical Oxygen Demand (COD) 1.750 mg/g Remarks: (External MSDS)

12.3 Bioaccumulate potential:

No data available

12.4 Mobility in soil:

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects:

No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)
14.1 UN number	-		
14.2 Proper shipping name	Not dangerous goods		
14.3 Class	-		
14.4 Packing group	-		
14.5 Environmentally hazardous	-		
14.6 Special precautions for user	No	No	No
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code			
Not Relevant			

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment:

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Training advice

Provide adequate information, instruction and training for operators.

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References: Not available

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