

## 1: Identification of substance / mixture

### 1. Product Identifier

Substance

Product Name **Tween 80 (R)**  
Product Code P20390  
CAS Number 9005-65-6  
Other Names POLYOXYETHYLENESORBITAN, MONOOLEATE  
POLYSORBATE 80  
IUPAC  
MFCN Number  
EC/EINECS 500-019-9  
REACH Number Index-No

### 2. Relevant identified uses of the substance or mixture and uses advised against

Research and Laboratory Use

### 3. Details of the supplier of the safety data sheet

Melford Laboratories Ltd  
Bildeston Road, Chelworth  
Ipswich  
Suffolk  
IP77LE  
UK



Telephone: 01449 741178  
Fax: 01449 741217  
Email: support@melford.co.uk

### 4. Emergency telephone number

+44(0)1449 741178 -

## 2. Hazards Identification

### 1. Classification of the substance or mixture

H412	Aquatic Chronic 3
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### 2. Label elements

Signal Word

### Hazard Statements

H412	Harmful to aquatic life with long lasting effects.
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### Precautionary Phrases

Non Hazardous

### 3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

## 3. Composition / Information on Ingredients

### 1. Substances

Product Name	Hazards	Concentration
Tween 80 (R)		
CAS Number: 9005-65-6 EC/EINECS: 500-019-9	H412 Aquatic Chronic 3	<=100%

## 4. First Aid Measures

### 1. Description of first aid measures

*Skin Contact* Wash immediately with soap and water

*Eye Contact*

Wash immediately with water for at least 10 minutes

*Ingestion* Do not induce vomiting.  
SEEK MEDICAL EXAMINATION IMMEDIATELY  
Show the safety data sheet to medical personnel

*Inhalation* Supply fresh air; consult a doctor in case of complaints.  
If breathing becomes bubbly, have the casualty sit and provide oxygen if available.

## 2. Most important symptoms and effects

No data available.

## 3. Indication of any immediate medical attention

No data available.

## 5. Firefighting measures

### 1. Extinguishing Media

*Suitable* Water spray.  
Carbon dioxide.

*Unsuitable* None specified

### 2. Special Hazards arising from the substance or mixture

In combustion may emit toxic/irritant fumes/ mists.  
Do not inhale explosion or combustion gases.  
Burning produces heavy smoke.

### 3. Advice for Fire Fighters

Wear self-contained breathing apparatus.  
Collect contaminated fire extinguishing water separately  
Do not discharge into drains or rivers.

## 6. Accidental Release Measures

### 1. Personal Precautions

Refer to section 8 of SDS for personal protection details.  
Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

### 2. Environmental Precautions

Do not discharge into drains or rivers.  
Store in bunded area  
Do not release to drains or rivers.

### 3. Methods & Materials

Absorb into dry earth, sand or other absorbent material  
Transfer to a closable, labelled salvage container for disposal by an appropriate method.  
wash with plenty of water.  
Retain contaminated water and dispose of.  
In case of accidental release inform the responsible authorities.

### 4. Preventing the occurrence of secondary hazards.

Clean up all spills immediately. Wear suitable PPE.

## 7. Handling and Storage

### 1. Personal Precautions

<i>Safe Handling</i>	Avoid direct contact with the substance. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Avoid prolonged or repeated exposure. Wash hands immediately after contamination and before eating or drinking.
<i>Protection against explosions and fires</i>	Normal measures for preventive fire protection.

### 2. Conditions for safe storage, including any incompatibilities

<i>Managing Storage Risks</i>	No special requirements. Ensure appropriate ventilation.
<i>Storage Controls</i>	Keep away from direct sunlight.
<i>Maintaining Integrity</i>	No special requirements. Compatible materials: Stainless Steel, Polyethylene, Paper
<i>Other advice</i>	no further information available

### 3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

## 8. Exposure Controls/Personal Protection

### 1. Control Parameters

No Data Available

### 2. Exposure Controls

<i>General protective and hygiene measures</i>	The standard precautionary measures should be adhered to when handling
<i>Engineering measures</i>	Ensure there is sufficient ventilation of the area.
<i>Eye / Face Protection</i>	Safety Glasses with side-shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)
<i>Hand protection</i>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it
<i>Respiratory protection</i>	Where risk assessment indicates respiratory protection is required use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<i>Skin protection</i>	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<i>Other personal protection advice</i>	no data available

## 9. Physical and Chemical Properties

### 1. Physical and Chemical Properties

Appearance	Liquid
Odour	Typical
Odour threshold	No Data Available

PH	6-8, 5% solution
Melting point / Freezing point	No Data Available
Initial boiling point and boiling range	> 250°C
Flash point	> 125°C
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	approx 1.08 g/ml at 20°C
Solubility(ies):	Soluble in water
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

## 2. Other Information

No additional information available

## 10. Stability and Reactivity

### 1. Reactivity

Considered stable under normal conditions.

### 2. Stability

Stable under recommended storage conditions.

### 3. Possibility of Hazardous Reactions

None

### 4. Conditions to Avoid

Considered stable under normal conditions.

### 5. Incompatible Materials

Oxidizing agents.

### 6. Hazardous Decomposition Products

In combustion may emit irritant/toxic mists/gases

## 11. Toxicology information

### 1. Information

<i>Acute Toxicity</i>	Oral LD50 (rat) > 38,000 mg/kg
<i>Skin corrosion/irritation</i>	Test Skin irritant Rabbit. Negative - 4hr
<i>Serious eye Damage/irritation</i>	Test- Eye Irritant RhCE (Reconstructed Human Cornea-like Epithelium) Negative - source OECD TG 492
<i>Respiratory or skin sensitisation</i>	Test- Skin Sensitization Guinea Pig Negative
<i>Germ Cell mutagenicity</i>	Based on available date the classification criteria are not met.
<i>Carcinogenicity</i>	Based on available date the classification criteria are not met.

<i>Reproductive toxicity</i>	No data available
<i>STOT-single exposure</i>	No data available
<i>STOT-repeated exposure</i>	No data available
<i>Aspiration hazard</i>	No data available

## 2. Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

## 12. Ecological Information

### 1. Toxicity

Aquatic Chronic 3- H412  
Aquatic Chronic Toxicity:  
Endpoint: NOEC - Fish > 0.1-1 mg/L  
Endpoint: NOEC - Daphnia > 0.1-1 mg/L  
Endpoint: NOEC - Algae > 0.1-1 mg/L

### 2. Persistence and degradability

No data available

### 3. Bio-Accumulative Potential

No data available

### 4. Mobility and Soil

No data available

### 5. Results of PBT & vPvB assessment

No data available  
Substance not classified as PBT/vPvB

### 6. Other adverse effects

Endocrine disrupting properties: No endocrine disruptor substances present in concentrations  $\geq 0.1\%$

## 13. Disposal Considerations

### 1. Waste Treatment Methods

*Disposal Operations* Consult state, local or national regulations for proper disposal.

*Disposal of Packaging* Disposal must be made according to official regulations.

## 14. Transport Information

### Air (ICAO)

Not classified as hazardous for transport

### Road (ADR)

Not classified as hazardous for transport

### Sea (IMDG)

Not classified as hazardous for transport

## 15. Safety, health, environmental and national regulations

### 1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

### 2. Safety Assessment

No Chemical Safety Assessment

## 16. Other Information

### 1. Other Information:

ADR: Accord Europeen sur le transport des marchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)

RID:Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association

ICAO:International Civil Aviation Organization

ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS:Chemical Abstracts Service

### 3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.