
1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Tween 80
Catalog Number: VT95
Product Use: For laboratory use only

Manufacturer's Name: Dalynn Biologicals Inc.
Supplier's Name: Dalynn Biologicals Inc.
Address: 3253 – 34 Avenue NE
Calgary, AB, Canada
T1Y 6X2

Telephone: 1-888-404-4045
Fax: (403) 250-9010
Chemical Emergency: 1-613-996-6666
Phone Number Only

2. HAZARD IDENTIFICATION

Not a hazardous substance or mixture.

GHS Label Elements, Including Precautionary Statements

Pictogram No symbol

Signal word None

3. COMPOSITION & INFORMATION ON INGREDIENTS

Synonyms None

INGREDIENT	%	CAS-No.	EC-No.	Index-No.
Polysorbate 80	100	9005-65-6	500-019-9	-

4. FIRST AID MEASURES**General advice**

No negative side effects are expected from exposure but consult a physician if patient feels unwell. Show this safety data sheet to the doctor in attendance. Move affected individual out of affected area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. If feeling unwell, consult a physician.

In case of skin contact

Wash affected area with soap and water. If feeling unwell, consult a physician.

In case of eye contact

As a precaution, flush eyes with plenty of water. If feeling unwell, consult a physician.

If swallowed

Do not induce vomiting. Rinse mouth with water if patient is conscious. If feeling unwell, consult a physician.

5. FIREFIGHTING MEASURES**Conditions of flammability**

Minimal fire hazard as the main component is water.

Suitable extinguishing media

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

Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions: carbon oxides, nitrogen oxides, hydrogen chloride gas

Explosion data – sensitivity to mechanical impact

Not sensitive to mechanical impact.

Explosion data – sensitivity to static discharge

Not sensitive to static discharge.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Wear gloves during clean up.

Environmental precautions

None. No environmental concerns.

Methods and materials for containment and cleaning up

Wearing chemical resistant gloves, soak up with paper towel and discarded with regular waste.

7. HANDLING AND STORAGE**Precautions for safe handling**

None.

Conditions for safe storage

Keep tightly closed at room temperature away from direct light or sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Personal protective equipment****Respiratory protection**

Use in area with adequate ventilation. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type ABEK (EN14387) respirator cartridges as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

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 after use.

Eye protection

If desired, face shield and/or safety glasses may be worn. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Skin and body protection

Wear appropriate clothing such as a lab coat that covers as much of the body as possible. Complete suit can also be worn if desired.

Hygiene measures

Wash hands before breaks

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Liquid
Color	Yellow

Safety data

pH	No data available
Melting point/ freezing point	Not applicable
Boiling point	Not applicable
Flash point	> 113°C (> 235°F) – closed cup
Ignition temperature	No data available
Auto ignition temperature	No data available
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapor pressure	No data available
Density	1.064 g/cm ³
Water solubility	Soluble
Partition coefficient/ n-octanol/water	No data available
Relative vapor density	No data available
Odour	No data available
Odour threshold	No data available
Evaporation rate	No data available

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available

Conditions to avoid

None

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

Other decomposition products – No data available

Hazardous decomposition products formed under fire conditions – Carbon oxides, nitrogen oxides, hydrogen chloride gas

11. TOXICOLOGICAL INFORMATION**Acute toxicity****Oral LD50**

Mouse – 25,000 mg/kg

Inhalation LC50

Not data available

Dermal LD50

Not data available

Other information on acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity – single exposure (GHS)

No data available

Specific target organ toxicity – repeated exposure (GHS)

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation No effects expected but may be harmful if inhaled.

Skin May cause skin irritation.

Eyes May cause mild eye irritation.

Ingestion No effects expected but may be harmful if swallowed.

Signs and Symptoms of Exposure

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

Synergistic effects

No data available

Additional information

RTECS: Not available

12. ECOLOGICAL INFORMATION**Toxicity**

No data available

Persistence and degradability

No data available

Bio accumulative potential

No data available

Mobility in soil

No data available

PBT and vPvB assessment

No data available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Product

Can be disposed of as regular waste.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS/SDS contains all the information required by them.

16. OTHER INFORMATION

Further information

Copyright 2018 Dalynn Biologicals Inc. The above information is believed to be correct but does not purport to be all inclusive and shall be only used as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Dalynn Biologicals Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.