

# SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revision number: 1 Revision date: 10/03/2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: Tween 80 (=Polyoxyethylene Sorbitan Monooleate) [for Biochemical Research]

Product code: T2533

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Reagents.

1.3 Details of the supplier of the safety data sheet

Supplier:

TCI EUROPE N.V. Boerenveldseweg 6 Haven 1063 B-2070 Zwijndrecht

Telephone: +32(0)3 735 07 00 E-mail: sales-eu@tcichemicals.com

**1.4 Emergency telephone number:** +32(0)70 245 245

#### SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Serious eye damage/eye irritation

Category 2

2.2 Label elements

Pictograms or hazard symbols



Signal word Warning

**Hazard statements** H319-Causes serious eye irritation.

**Precautionary statements** P264-Wash hands and face thoroughly after handling.

P280-Wear eye protection.

P305+P351+P338+P337+P313-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice

or attention.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

## SECTION 3: Composition/information on ingredients

3.1 Substances

T2533

Components: Tween 80 (=Polyoxyethylene Sorbitan Monooleate) [for Biochemical Research]

Percent:

**CAS RN:** 9005-65-6 **EC-No:** 500-019-9

Synonyms: Polyoxyethylene Sorbitan Monooleate

Chemical Formula: ----

Tween 80 (=Polyoxyethylene Sorbitan Monooleate) [for

Biochemical Research]

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## SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

advice/attention if you feel unwell.

Skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation

or rash occurs: Get medical advice/attention.

**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion:** Get medical advice/attention if you feel unwell. Rinse mouth.

**Protection of first-aiders:** A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

#### 4.2 Most important symptoms and effects, both acute and delayed

No data available

#### 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: Dry chemical, foam, water spray, carbon dioxide.

5.2 Special hazards arising from the

substance or mixture

Carbon monoxide, carbon dioxide etc

**5.3 Advice for firefighters** Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according

to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure

to wear personal protective equipment

#### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off,

etc

**6.2 Environmental precautions** Prevent product from entering drains

6.3 Methods and materials for containment and cleaning up

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly

disposed of, in accordance with appropriate laws and regulations.

**6.4 Reference to other sections** For disposal see section 13.

# SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Wash hands and face thoroughly after handling. Use a ventilation, local

exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials

such as oxidizing agents.

7.3 Specific end use(s) No further relevant information available

#### SECTION 8: Exposure controls/personal protection

**8.1 Control parameters** No data available

8.2 Exposure controls Install a closed system or local exhaust as possible so that workers should not be exposed directly.

Also install safety shower and eye bath.

Respiratory protection: Vapor respirator. Follow local and national regulations.

Hand protection: Protective gloves.

**Eye protection:**Safety glasses. A face-shield, if the situation requires.

Skin and body protection:
Protective clothing. Protective boots, if the situation requires.

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## SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state (20°C): Liquid Form: Clear

Colour: Slightly pale yellow - Yellow

 Odour:
 Characteristic

 pH:
 5 - 7 (5% H<sub>2</sub>O soln.)

Melting point/freezing point: -25°C

Boiling point/range: No data available

Flash point: 295°C

Evaporation rate(Butyl Acetate=1): No data available Flammability(solid, gas): No data available Flammability or explosive limits:

Lower:No data availableUpper:No data availableVapour pressure:<0.1kPa/20°C</th>Vapour density:No data available

Relative density: 1.08

Solubility(ies):

[Water] Miscible

[Other solvents]

Soluble: Alcohols, Toluene, Ethyl acetate

Very slightly soluble: Xylene

Insoluble: Hexane, Mineral oil Partition coefficient: No data available

n-octanol/water:

Autoignition temperature:No data availableDecomposition temperature:No data availableDynamic Viscosity:No data availableKinematic viscosity:No data available

**9.2 Other safety information** No data available

# SECTION 10: Stability and reactivity

10.1 Reactivity No data available

**10.2 Chemical stability** Stable under proper conditions.

10.3 Possibility of hazardous reactions No special reactivity has been reported.

**10.4 Conditions to avoid** No data available

10.5 Incompatible materials Oxidizing agents, Bases, Heavy metal salts

10.6 Hazardous decomposition products Carbon monoxide, carbon dioxide etc

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## SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

Carcinogenicity:

Acute Toxicity: ipr-rat LD50:6804 mg/kg

ivn-rat LD50:1790 mg/kg orl-mus LD50:25 g/kg orl-rat LD50:34500 uL/kg

Skin corrosion/irritation:

Serious eye damage/irritation:
Respiratory or skin sensitization:
Germ cell mutagenicity:

No data available eye-rbt 150 mg MLD
No data available dni-hmn-lym 20 ppm dni-mus-oth 20 ppm

orl-rat TDLo:2163 g/kg/2Y-C scu-rat TDLo:10 g/kg/27W-I

IARC = No data available
NTP = No data available

Reproductive toxicity: ipr-rat TDLo:80 uL/kg (4D post)

orl-rat TDLo:1270 g/kg (84D pre-21D post) orl-rat TDLo:635 g/kg (multigenerations)

STOT-single exposure: No data available
STOT-repeated exposure: No data available
Aspiration hazard: No data available
RTECS Number: WG2932500

#### SECTION 12: Ecological information

#### 12.1 Toxicity

Fish: No data available
Crustacea: No data available
Algae: No data available

12.2 Persistence and degradability No data available

**12.3 Bioaccumulative potential** No data available

12.4 Mobility in soil

Log Pow: No data available
Soil adsorption (Koc): No data available
Henry's Law (PaM ³/mol): No data available

12.5 Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

**12.6 Other adverse effects** No data available

# SECTION 13: Disposal considerations

## 13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. Observe all federal, state and local regulations when disposing of the substance.

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## SECTION 14: Transport information

14.1 UN number Not listed

14.2 UN proper shipping name

ADR/RID Not listed
IMDG/IMO Not listed
ICAO/IATA Not listed

14.3 Transport hazard class(es)

ADR/RID Does not correspond to the classification standard of the United Nations
IMDG/IMO Does not correspond to the classification standard of the United Nations
ICAO/IATA Does not correspond to the classification standard of the United Nations

14.4 Packaging group

ADR/RID - IMDG/IMO - ICAO/IATA -

14.5 Environmental hazards

Marine pollutant -

14.6 Special precautions for user No data available

#### SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Water Hazard Classes (WGK):

Class 1 - Low hazard to waters

Substance of Very High Concern (SVHC) according to the Not listed

REACH Regulations (EC) No.1907/2006

A chemical safety assessment has not been carried out.

15.2 Chemical safety assessment

SECTION 16: Other information

Prepared by: TCI EUROPE N.V. Issue date: 10/03/2018

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

**End of Safety Data Sheet**