

**Revision number:** 1 Revision date: 07/06/2018

## **1. IDENTIFICATION**

Product name:

TCI	AMERICA	
SAFE	TY DATA SHEET	

Product code:	T2533		
Product use: Restrictions on use:	For laboratory research purposes. Not for drug or household use.		
Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com		Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) <b>Responsible department:</b> TCI America Environmental Health Safety and Security +1- 503-286-7624	

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

# 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Eye Damage/Irritation [Category 2B]		
Signal word:	Warning!		
Hazard Statement(s):	Causes eye irritation		
Pictogram(s) or Symbol(s):	None		
Precautionary Statement(s): [Prevention] [Response]	Wash hands and face thoroughly after handling. 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.		
Hazards not otherwise classified: [HNOC]	None.		

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	Tween 80 (=Polyoxyethylene Sorbitan Monooleate) [for Biochemical Research]
Percent:	
CAS RN:	9005-65-6
Chemical Formula:	
Synonyms:	Polyoxyethylene Sorbitan Monooleate

4. FIRST-AID MEASURES			
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. 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.		
Eye contact:			
Ingestion:	Get medical advice/attention if you feel unwell. Rinse mouth.		
Symptoms/effects:			
Acute:	Redness.		
Delayed:	No data available		
Indication of any immediate medical atte	ention:		
Not available.			
Notes to physician: No data available			
5. FIRE-FIGHTING MEASURES			
3. TIKE-HOITING MEASURES			
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.		
Hazardous combustion products:	None		
Other specific hazards:	Closed containers may explode from heat of a fire.		
Advice for firefighters:	Wear self-contained breathing apparatus if possible.		
6. ACCIDENTAL RELEASE MEASU	RES		
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.		
Environmental precautions:	Prevent product from entering drains.		
Methods and materials for containment and cleaning up:			
7. HANDLING AND STORAGE			
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.		
Conditions for safe storage, including a	ny incompatibilities		
Storage conditions:	Keep container tightly closed. Store in a cool and dark place.		
Packaging material:	Store away from incompatible materials such as oxidizing agents. Comply with laws.		
8. EXPOSURE CONTROLS / PERSC	NAL PROTECTION		
Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.		

Personal protective equipment	
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.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Slightly pale yellow - Y Characteristic No data available No data available	ellow	
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	-25°C (-13°F) No data available No data available 1.08 No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. No data available No data available No data available
Flash point: Flammability(solid, gas):	295°C (563°F) No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	No data available No data available No data available
Solubility(ies): [Water] [Other solvents] Soluble: Very slightly soluble: Insoluble:	Miscible Alcohols, Toluene, Ethy Xylene Hexane, Mineral oil		
10. STABILITY AND REACTIN	VITY		
Reactivity: Chemical stability: Possibility of hazardous reactior Incompatible materials: Hazardous decomposition produ	Oxidizing agents, Base	s been reported. s, Heavy metal salts	
11. TOXICOLOGICAL INFORI	MATION		
RTECS Number: WG2932500			
Acute Toxicity: ipr-rat LD50:6804 mg/kg orl-mus LD50:25 g/kg		ivn-rat LD50:1790 mg/kg orl-rat LD50:34500 uL/kg	
Skin corrosion/irritation: No data available			
Serious eye damage/irritation: eye-rbt 150 mg MLD			
Respiratory or skin sensitization No data available	:		
Germ cell mutagenicity: dni-hmn-lym 20 ppm		dni-mus-oth 20 ppm	
Carcinogenicity: orl-rat TDLo:2163 g/kg/2Y-C		scu-rat TDLo:10 g/kg/27W-I	
IARC: No data available	NTP: No o	data available OSHA	: No data available
<b>Reproductive toxicity:</b> ipr-rat TDLo:80 uL/kg (4D post) orl-rat TDLo:635 g/kg (multigenerat	tions)	orl-rat TDLo:1270 g/kg (84D pre-21	D post)
Target organ(s):	No data available		

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12. ECOLOGICAL INFORMATION	
Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative potential(BCF): Mobility in soil	No data available
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law (PaM ³/mol):	No data available
13. DISPOSAL CONSIDERATIONS	
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. 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. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.
Disposal of container:	Dispose of as unused product. Do not re-use empty containers.
Other considerations:	Observe all federal, state and local regulations when disposing of the substance.
14. TRANSPORT INFORMATION	
DOT (US)	Non-hazardous for transportation.
IATA	Non-hazardous for transportation.
IMDG	Non-hazardous for transportation.

# 15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regu	lations			
CERCLA Hazardo	ous substance a	and Reportable Quantity:		
SARA 313:		Not Listed		
SARA 302:		Not Listed		
State Regulations	<u>s</u>			
State Right-to-Kn	ow			
Massachuset	tts	Not Listed		
New Jersey		Not Listed		
Pennsylvania	a	Not Listed		
California Propos	sition 65:	Not Listed		
Other Information	<u>1</u>			
NFPA Rating:			HMIS Classification:	
Health:	0		Health:	0
Flammability:	1		Flammability:	1
Instability:	0		Physical:	0
International Inve	entories			
Canada: DSL		On DSL		
EC-No:		500-019-9		

#### 16. OTHER INFORMATION

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TCI 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 affiliates or 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 SDS 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 SDS 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, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.