

SAFETY DATA SHEET

Creation Date 12-Apr-2010

Revision Date 24-May-2017

Revision Number 4

1. Identification 80

Ν	lame	Tween®	
Ν	lame	Tween	D

T164-500; NC1061880; XXTWN80FHK4LI

Synonyms

Cat No. :

Product

Polyoxyethylene(20)sorbitan monooleate

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label Elements None required

Hazards not otherwise classified (HNOC)

None identified

3. Composition / information on ingredients

Component	CAS-No	Weight %	
Polyoxyethylene(20)sorbitan monooleate	9005-65-6	>95	

4. First-aid measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms/effects Notes to Physician	None reasonably foreseeable. Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.		
Unsuitable Extinguishing Media	No information available		
Flash Point	> 110 °C / > 230 °F		

Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper Lower	No data available No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO₂)

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u> Health 1	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental re	elease measures	
Personal Precautions Environmental Precautions	Use personal protective en Should not be released int	quipment. Ensure adequate ventilation to the environment.	

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Up

7. Handling and storage						
Handling Wear personal protective equipment. Ensure adequate ventilation. Avoid ingest inhalation. Avoid contact with skin, eyes and clothing.						
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Store indoors.					
	8. Exposure controls / personal protection					
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.					

Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Amber
Odor	No information available
Odor Threshold	No information available
рН	6 10 % aq.solution
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	> 110 °C / > 230 °F
Evaporation Rate	> 1 (Ether = 1.0)
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	<1 hPa @ 20 °C
Vapor Density	> 1.0
Specific Gravity	1.080
Solubility	Partly soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	400 mPa.s at 25°C

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Excess heat.
Incompatible Materials	Strong oxidizing agents, Bases, Heavy metals
Hazardous Decomposition Products	s Carbon monoxide (CO), Carbon dioxide (CO2)
Hazardous Polymerization	No information available.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

C	20	m	pc	n	en	t I	nf	or	m	ati	ioi	า

Component Information							
Component		LD50 Oral		LD50 Dermal		nhalation	
		LD50 = 34500 µL/kg (F	Rat)	Not listed		listed	
monooleate							
Toxicologically Syn	ergistic	No information ava	ailable				
Products							
Delayed and immed	late effects as	s well as chronic effe	cts from short al	nd long-term exposu	<u>ire</u>		
Irritation		No information ava	ailable				
Sensitization		No information ava	ailable				
Carcinogenicity		The table below in	dicates whether e	ach agency has listed	l any ingredient a	s a carcinogen.	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Polyoxyethylene(20)so rbitan monooleate	9005-65-6	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information ava	No information available				
Reproductive Effect	s	No information ava	No information available.				
Developmental Effe	cts	No information ava	No information available.				
Teratogenicity		No information ava	No information available.				
STOT - single expos STOT - repeated exp		None known None known					
Aspiration hazard		No information ava	No information available				
Symptoms / effects delayed	,both acute a	nd No information ava	No information available				
Endocrine Disrupto	r Information	No information ava	No information available				

Other Adverse Effects

The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not empty into drains. .

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea		
Polyoxyethylene(20)sorbitan	Not listed	LC50: 471 mg/L/96h	Not listed	Not listed		
monooleate		(Rainbow trout)				
Persistence and Degrada	ability Soluble in wa	ater Persistence is unlikely	based on information avai	lable.		
Bioaccumulation/ Accun Mobility		No information available. Will likely be mobile in the environment due to its water solubility.				
13. Disposal considerations						
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification						

14. Transport information			
DOT TDG IATA IMDG/IMO	Not regulated		
TDG	Not regulated		
ΙΑΤΑ	Not regulated		
IMDG/IMO	Not regulated		
	15. Regulatory information		

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Polyoxyethylene(20)sorbitan	Х	Х	-	-	-	500-01	Х	Х	Х	Х	Х
monooleate						9-9					

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable	
SARA 313	Not applicable	
SARA 311/312 Hazard Categories Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Ha Reactive Hazard	zard	No No No No
CWA (Clean Water Act)	Not applicable	
Clean Air Act	Not applicable	
OSHA Occupational Safety and Healt Not applicable	h Administration	
CERCLA Not applicable		
California Proposition 65	This product does not co	ntain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations	Not applicable	
U.S. Department of Transportation		

Reportable Quantity (RQ): N

DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade	No information available	
	16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com	
Creation Date Revision Date Print Date Revision Summary	12-Apr-2010 24-May-2017 24-May-2017 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).	

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS