

Material Safety Data Sheet

Version GHS 5.1
Revision date : 1/22/2018

1 . PRODUCT & COMPANY IDENTIFICATION

Product Name : Tween 20
Product Cat No : T9100
CAS No : 9005-64-5
Manufacturer/Supplier : GenDEPOT LLC
PO Box 454
Barker, Tx 77413
Emergency Phone : 866.417.0078
Fax : 281-579-6876

2 . HAZARD IDENTIFICATION

GHS Classification

No known OSHA hazards
Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

GHS Label elements, including precautionary statements

Pictogram

Hazard statement (s)

Not classified as a hazard

Precautionary Statements

Not classified as a hazard

Potential Health Effects

Inhalation : May be harmful if inhaled, Causes respiratory tract irritation
Skin : May be harmful if absorbed through skin. Cause skin irritation
Eyes : Causes eye irritation
Ingestion : May be harmful if swallowed.

3 . COMPOSITION/INFORMATION ON INGREDIENT

Synonyms: ARMOTAN PML-20 , CAPMUL , DXEWMULSE POE-SML , EMSORB 6915 , GLYCOSPERSE L-20 , GLYCOSPERSE L-20X , HODAG PSML-20 , LIPOSORB L-20 , POE 20 SORBITAN MONOLAURATE , POLYOXYETHYLENE (20) , SORBITANMONOLAURATE , PROTASORB L-20 , PSML , SORBIMACROGOL LAURATE 300 , SORBITAN, MONO-DODECANOTE, POLY(OXY-1,2-ETHANEDIYL) DERIVATIVES

Component	Classification	Concentration
Tween 20		
	CAS-NO. 9005-64-5	95-100%

4 . FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation: If breathed in, move person into fresh air.
If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water.
Consult a physician.

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed : Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

5 . FIREFIGHTING MEASURES

Suitable extinguishing media: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Special protective equipment for firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products: Hazardous decomposition products formed under fire conditions. - Carbon oxides,

Further information: Use water spray to cool unopened containers.

6 . ACCIDENTAL RELEASE MEASURES

Personal precaution: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precaution: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for contaminant and cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

7 . HANDLING AND STORAGE

Precaution for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Condition for safe storage: Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 18-35 °C

8 . EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment: .

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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.

Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Complete suit protecting against chemicals.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form	Liquid
Color	Yellow to amber

Safety data:

pH	6-8
Melting point	no data available
Freezing point	no data available
Boiling point	>100°C
Flash point	232°C
Ignition temperature	no data available
Auto-ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapor pressure	<1.33 hPa (<1.0 mmHg)
Vapor Density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapor density	no data available
Odor	no data available
Odor 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.

Condition to avoid

None known based on information supplied

Materials to avoid

no data available.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Other decomposition products - no data available

11 . TOXICOLOGICAL INFORMATON

Acute Toxicity

May cause irritation to eyes, skin and respiratory system

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

No known effect based on information supplied

Respiratory or skin sensitization

no data available

Mutagenicity (Germ cell mutagenicity)

No known effect based on information supplied

Carcinogenicity

No known effect based on information supplied

Reproductive toxicity

No known effect based on information supplied

Specific target organ toxicity— single exposure (GHS)

May cause respiratory tract irritation, drowsiness or dizziness

Specific target organ toxicity— repeated exposure (GHS)

Causes damage to liver and may cause damage to nervous system through prolonged or repeated exposure

Aspiration hazard

no data available

Potential health effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation

Aggravated Medical Condition

Avoid contact with Ethanol solutions containing toxic materials or materials with unknown toxicological properties.

12 . ECOLOGICAL INFORMATION

Chemical Name	Toxicity to algae	Toxicity to fish	Daphnia Magna (Water Flea)
Tween 20		LC50= 350 mg/L 24 h	

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effect

no data available

13 . DISPOSAL CONSIDERATIONS

Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14 . TRANSPORT INFORMATION

DOT(US)

Not regulated

IMDG

IATA

Not regulated

15 . REGULATORY INFORMATION

United States

HCS Classification : No known OSHA hazards

TSCA 8(a) IUR exempt/Partial exemption : not determined
United States Inventory (TSCA 8b) : all components are listed or exempted
SARA 302/304/311/312 extremely hazardous substances :

No products were found
SARA 302/304 emergency planning and notification:

No products were found
SARA 302/304/311/312 hazardous chemicals : No products were found
SARA 311/312 Hazard Identification
No products were found

Clean Air Act Section 112(b) : No products were found

Hazardous air pollutants (HAPs)

Clean Air Act Section 602 : not listed
Class I substances

Clean Air Act Section 602 : not listed
Class II substances

DEA List I Chemicals : not listed
(Precursor chemicals)

DEA List II Chemicals : not listed

States Regulation

Massachusetts : The following components are listed

New York : None of the components are listed

New Jersey : The following components are listed
Tween 20 9005-64-5

Pennsylvania : The following components are listed
Tween 20 9005-64-5

California Prop. 65 Components :

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Canada

WHMIS (Canada) : Not determined

Canadian lists

Canadian NPRI : Not determined

CEPA Toxic substances : None of the components are listed

Canada inventory : all components are listed or exempted

International Regulation

Australia (AICS) : all components are listed or exempted

China Inventory (IECSC) : all components are listed or exempted

Japan Inventory : all components are listed or exempted

Korea Inventory : all components are listed or exempted

New Zealand Inventory of Chemicals (NZIoC)

: all components are listed or exempted

Philippines Inventory (PICCS) : all components are listed or exempted

HIMS Rating:

Health hazard : 0

Chronic Health Hazard : *

Flammability : 0

Physical hazards: 0

NFPA Rating:

Health Hazard: 0

Fire: 0

Reactivity Hazard: 0

16 . OTHER INFORMATION

This compound is sold only for research use by personnel familiar chemicals and who are well trained in good laboratory habits, such as avoiding spills, keeping hands clean at all times and no rubbing eyes with working in the laboratory.

This solution is sold only in microliter quantities for use in life sciences research. No other use is intended. And any other use may involve substantive hazards.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish or legally valid contractual relationship. GenDEPOT LLC, shall not be held liable for any damage resulting from handling of or from with above product. The burden of safe use of this material rests entirely with the user.

Since the conditions of handling, storage and disposal of this material are beyond our control, it is the responsibility of the user to determine whether the material is fit for a particular purpose and/or suitable for the user's method of use or application, and to determine safe conditions for use of the material, and to assume full responsibility for loss, injury and expense arising out of or in connection with the use of material. NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, REGARDING THE MATERIAL DESCRIBED HEREIN SHALL BE CREATED BY OR INFERRED FROM ANY STATEMENT OR OMISSION FROM THIS MSDS.

Various government agencies and local authorities may have general or specific regulations applicable to the material which may not be covered in this MSDS. It is sole responsibility of the user to examine and confirm for its full compliance with any such regulations.

When the revision of this MSDS is received, please dispose of the old one.

Department issuing MSDS:

GenDEPOT LLC

Safety Department