

10 % Tween 20 **Safety Data Sheet**

SECTION 1: IDENTIFICATION

Product Identifier Product Form: Liquid

Product Name: 10 % Tween 20

Synonyms: 10 % P20, 10 % Polysorbate 20

Intended Use of the Product

Use of the Substance/Mixture: For use as an additive to various reagents

Company Carterra Inc. 825 N 300 W Suite C309

Salt Lake City, UT 84103 844.642.7635 x736

Emergency Number: 1-800-535-5053 for domestic USA, 1-352-323-3500 for International.

Account Number: 114962

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

This Substance is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	CAS No.	%	Classification
Tween 20	9005-64-5	9.0 – 10.0	None Specified
Water	7732-18-5	99.25-99.05	None Specified

SECTION 4: FIRST AID MEASURES

Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

First-aid Measures After Inhalation: Move to fresh air. If not breathing, give artificial respiration.

First-aid Measures After Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes

First-aid Measures After Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician

First-aid Measures After Ingestion: Rinse mouth

Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: No information available

Symptoms/Injuries After Inhalation: No information available Symptoms/Injuries After Skin Contact: No information available Symptoms/Injuries After Eye Contact: No information available Symptoms/Injuries After Ingestion: No information available

Chronic Symptoms: No information available

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media: No information available Special Hazards Arising from the Substance or Mixture: None

Advice for Firefighters

Precautionary Measures: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or

equivalent) and full protective gear.

Firefighting Instructions: No information available Protection During Firefighting: No information available Hazardous Combustion Products: No information available

Other Information: No information available

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures General Measures: Ensure adequate ventilation, especially in confined areas For Non-Emergency Personnel Protective Equipment: Safety Glasses. Gloves.

Emergency Procedures: No information available

For Emergency Personnel Protective Equipment: No information available

Emergency Procedures: No information available **Methods and Materials for Containment and Cleanup**

For Containment: Prevent further leakage or spillage if safe to do so

Methods for Cleanup: Cover with dry lime or soda ash. Pick up and transfer to properly labeled containers

SECTION 7: HANDLING AND STORAGE

Methods and Materials for Containment and Cleanup

Soak up spills with inert solids such as clay or diatomaceous earth as soon as possible. Store away from other materials

Precautions for Safe Handling

Handle in accordance with good industrial hygiene and safety practice. Hygroscopic

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Hygroscopic. Keep container tightly closed in a dry and well-ventilated place

Incompatible Products: Strong oxidizing agents

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Component	CAS-No.	Value	Control Parameters
Tween	9005-64-5	No information available	No information available
Water	7732-18-5	Not Established	Not Established

Exposure Controls and Risk Management Measures

Appropriate Engineering Controls: Showers

Eyewash stations
Ventilation systems

 Materials for Protective Clothing
 : No information available

 Hand Protection
 : Wear protective gloves

Eye Protection : Avoid contact with eyes. Safety glasses with side-shields

Skin and Body Protection : Wear protective clothing

Respiratory Protection : If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA

approved respiratory protection should be worn. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance

with current local regulations.

Environmental Exposure Controls : No information available
Other Information : No information available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State : Liquid Appearance : Clear

Odor: No information availableOdor Threshold: No information available

pH : 6.00-7.50

Evaporation Rate : No information available
Melting Point : No information available
Freezing Point : No information available
Boiling Point : No information available
Flash Point : No information available
Flash Point : No information available

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No information available **Auto Ignition Temperature Decomposition Temperature** No information available Flammability (solid, gas) No information available No information available Vapor Pressure Relative Vapor Density at 20° C No information available No information available **Relative Density Specific Gravity** No information available Solubility Miscible with water Partition Coefficient: N-Octanol/Water No information available No information available Viscosity

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No information available

Chemical Stability: Stable under recommended storage conditions. **Possibility of Hazardous Reactions:** None under normal processing **Conditions to Avoid:** Extremes of temperature and direct sunlight

Incompatible Materials: No information available

Hazardous Decomposition Products: No information available

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity:

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tween 20	= 36700 μL/kg (rat)	None specified	None Specified

Skin Corrosion/Irritation: No information available

pH: No information available

Serious Eye Damage/Irritation: No information available

pH: No information available

Respiratory or Skin Sensitization: No information available

Germ Cell Mutagenicity: No information available

Carcinogenicity: No information available
IARC: No information available
NTP: No information available
OSHA: No information available
Reproductive Toxicity: No information available

Specific Target Organ Toxicity (Single Exposure): No information available Specific Target Organ Toxicity (Repeated Exposure): No information available

Aspiration Hazard: No information available

Symptoms/Injuries After Inhalation: No information available Symptoms/Injuries After Skin Contact: No information available Symptoms/Injuries After Eye Contact: No information available Symptoms/Injuries After Ingestion: No information available

Chronic Symptoms: No information available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity:

Toxicity to fish static test LL50 - Danio rerio (zebra fish) -> 100 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates EC50 -

Daphnia (water flea) - > 10 mg/l - 48 h Remarks: (above the solubility limit in the test medium) (Lit.)

Toxicity to bacteria microtox test EC50 - Bacteria - 146 - 774 mg/l - 5 min Remarks: (Lit.)

Persistence and degradability

Biodegradability aerobic - Exposure time 28 d Result: > 60 % - Readily biodegradable. (OECD Test Guideline 301F)

Behavior in environmental systems:

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Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available. •

Additional ecological information: ·

General notes: N/A

Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

Other adverse effects: No further relevant information available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods:

Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system. Offer surplus and non-recyclable solutions to a licensed disposal company. Disposal must be made in accordance with local regulations.

SECTION 14: TRANSPORT INFORMATION

Transport/Additional information:

DOT Quantity limitations: Not Dangerous Goods IMDG Limited quantities: Not Regulated UN "Model Regulation": Not Dangerous Goods

SECTION 15: RREGULATORY INFORMATION

Safety, health, and environmental regulations/legislation specific for the substance or mixture

Section 355 (extremely hazardous substances): None of the ingredients is listed.

Section 313 (Specific toxic chemical listings): None of the ingredients is listed.

TSCA (Toxic Substances Control Act): All ingredients are listed.

Proposition 65 · Chemicals known to cause cancer: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.

Chemicals known to cause developmental toxicity: None of the ingredients is listed.

Carcinogenic categories ·

EPA (Environmental Protection Agency) None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.

GHS label elements

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Specific treatment (see on this label). Wash contaminated clothing before reuse.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: Quality Assurance.

Contact: · Date of preparation / last revision

Creation date for SDS 06/19/2019. review SDS for accuracy. 10/24/2022.

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