

46117 Landing Parkway, Fremont, CA 94538, U.S.A. Tel: 1-510-265-1027; Fax: 1-510-265-1352 btinfo@biotium.com http://www.biotium.com/

### SAFETY DATA SHEET

Date Revised: June 22, 2015

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:Tween 20Catalog Number:22002Unit Size:50mLManufacturer/Supplier:Biotium, Inc.46117 Landing Parkway, Fremont, CA 94538, USA<br/>Phone: 1-510-265-1027, Fax: 1-510-265-1352<br/>Web: <a href="http://www.biotium.com">http://www.biotium.com</a>

#### 2. HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008[CLP] Skin Sens. 1 Eye Irrit. 2 Skin Irrit. 2 STOT SE 3 Aquatic Chronic 3

Classification according to Directive 1999/45/EC None

Labeling according to Regulation (EC) No 1272/2008[CLP]



Hazard pictogram Signal word Warning Hazard statements H317 May cause an allergic skin reaction H319 Causes serious eye irritation H315 Causes skin irritation H335 May cause respiratory irritation H412 Harmful to aquatic life with long lasting effects

#### **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: wash with plenty of soap and water. P333+P313 IF SKIN irritation or rash occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse P264 Wash hands thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 IF eye irritation persists: Get medical advice/attention. P332+P313 IF SKIN irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P271 Use only outdoors or in a well-ventilated area. P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell.



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P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/container to hazardous waste. P273 Avoid release to the environment.

#### **HMIS Classification**

Health hazard: 0 Flammability: 0 Physical hazards: 0 **NFPA Rating** Health hazard: 0 Fire: 1 Reactivity Hazard: 0

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS No.	EC No.	Index No.	Weight %	Classification according to 67/548/EEC	Classification according to regulation (EC)No1278/2008
Tween 20	9005-64-5	500-018-3	-	<u>≥</u> 99%	-	Skin Sens. 1 Eye Irrit. 2 Skin Irrit. 2 STOT SE 3 Aquatic Chronic 3

#### 4. FIRST- AID MEASURES

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. **If inhaled** 

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

Flush eyes with water as a precaution.

#### 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

Carbon dioxide, dry chemical extinguishers, foam extinguishers or water. **Special protective equipment for firefighters** Wear self contained breathing apparatus for firefighting if necessary.

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#### 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

Avoid breathing vapors, mist or gas. Remove all sources of ignition. **Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. **Methods and materials for containment and cleaning up** Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid inhalation of vapor or mist. Avoid direct contact with substance. **Conditions for safe storage** Keep container tightly closed in a dry and well-ventilated place. Store at room temperature.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

SubstanceTween 20CAS no.9005-64-5Control parameterNo information available

#### Personal protective equipment

#### 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.

#### **Respiratory protection**

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### 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).

#### Hygiene measures

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

<sup>9.</sup> PHYSICAL AND CHEMICAL PROPERTIES

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Chemical Name	Tween 20		
Appearance	Liquid		
Odor	No information available		
Odor threshold	No information available		
рН	7		
Melting point/freezing point	No information available		
Boiling point	100 °C (212 °F)		
Flash point	> 110 °C (> 230 °F) - closed		
	cup		
Evaporate rate	No information available		
Flammability	No information available		
Explosive limits	No information available		
Vapor pressure	< 1.33 hPa (< 1.00 mmHg)		
Vapor density	No information available		
Relative density	No information available		
Solubility	Soluble in Water		
Partition coefficient:n-octanol/water	No information available		
Auto-ignition temperature	No information available		
Decomposition temperature	No information available		
Viscosity	No information available		
Explosive properties	No information available		
Oxidising properties	No information available		

#### 10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.
Possibility of hazardous reactions
No data available
Conditions to avoid
Heat, flames and sparks.
Materials to avoid
Strong oxidizing agents
Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - no data available

#### 11. TOXICOLOGICAL INFORMATION

# Acute toxicity Oral LD50 LD50 Oral - rat - 40,554.0 mg/kg Inhalation LC50 None Dermal LD50 None Other information on acute toxicity no data available Skin corrosion/irritation Skin - Human - Mild skin irritation - 3 d Serious eye damage/eye irritationno data available

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Respiratory or skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity no data available Specific target organ toxicity - single exposure (Globally Harmonized System) no data available Specific target organ toxicity - repeated exposure (Globally Harmonized System) no data available Aspiration hazard no data available Potential health effects Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eves May cause eve irritation. Additional Information RTECS: TR7400000

#### 12. ECOLOGICAL INFORMATION

ToxicityToxicity to fish LC50 - other fish - 350 mg/l - 24 hPersistence and degradabilityno information availableBiodegradationno information availableMobility in soilno information availableResults of PBT and vPvB assessmentno information availableOther adverse effectsno information availableAdditional informationno information available

#### 13. DISPOSAL CONSIDERATIONS

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

#### 14. TRANSPORT INFORMATION

IATA, IMDG, DOT(US)not dangerous good during transportationUN numbernoneUN proper shipping namenoneTransport hazard classnone

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Packing group none Environmental hazards none Special precaution for user none

#### 15. REGULATION INFORTMATION

#### **US Federal Regulations**

US Toxic Substances Control Act(TSCA): Not listed SARA 302: No chemicals were found. SARA 313: No chemicals were found. SARA 311/312 Hazards: No chemicals were found.

16. OTHER INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008

 
 Prepared by:
 Regulatory Department Biotium Inc.

 Version no.
 3

 Reason for revision
 Update of CLP labeling and corresponding requirements

The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Biotium shall not be held liable for any damage resulting from handling or contact with the above product.