# **SAFETY DATA SHEET**

national diagnostics

Conforms to regulation (EC) no. EU 453/2010

### SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product Identifier

Product Name: Tween 20 Product Number: EC-607

# 1.2 Relevant Identified Uses of the Substance/Mixture and Uses Advised Against

Investigational research by professional users

# 1.3 Details of the Supplier of the Safety Data Sheet

### Manufacturer

National Diagnostics 305 Patton Drive Atlanta, GA 30036 (404) 699-2121 (800) 526-3867 info@nationaldiagnostics.com

# 1.4 Emergency Telephone Number

### ChemTel Inc.

Contract number MIS8894340
1-800 255-3924 (United States, Canada, Puerto Rico & US Virgin Islands)
01-800-099-0731 (Mexico)
400-120-0751 (China)
000-800-100-4086 (India)
1-300-954-583 (Australia)
0-800-591-6042 (Brazil)
+1-813-255-3924 (All other regions)

### **SECTION 2 - HAZARDS IDENTIFICATION**

#### 2.1 Classification of the Substance or Mixture

Not a hazardous substance or mixture according to regulation (EC) No. 1272/2008.

### 2.2 Label Elements

This product has no labeling elements associated with EC directives or respective national laws.

### 2.3 Other Hazards

None found.

# **SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

# 3.1 Substance

## **Chemical Names/Description**

Polyoxyethylene sorbitan monolaurate; Polysorbate 20

### **Chemical Formula**

C<sub>18</sub>H<sub>34</sub>O<sub>6</sub>\*(C<sub>2</sub>H<sub>4</sub>O)n

# **Component List**

| Component      | % Comp. | CAS#      | EC#       |
|----------------|---------|-----------|-----------|
| Polysorbate 20 | 100     | 9005-64-5 | 500-018-3 |

# **SECTION 4 - FIRST AID MEASURES**

# 4.1 Description of First Aid Measures

#### Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

#### Ingestion

Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

#### Skin

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

#### Eyes

Immediately flush eyes with plenty of water for at least fifteen minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

# 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

#### Inhalation

Not expected to be a health hazard by inhalation.

#### Ingestion

Abdominal spasms, diarrhea.

### Skin

Redness, swelling.

#### Eyes

Pain, redness.

# 4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Unknown/not applicable

# **SECTION 5 - FIRE FIGHTING MEASURES**

# 5.1 Extinguishing media

Use media appropriate to the primary cause of fire.

# 5.2 Special Hazards Arising from the Substance/Mixture

### **Hazardous Combustion Products**

Carbon dioxide and carbon monoxide.

#### **Hazardous Decomposition Products**

Carbon dioxide and carbon monoxide may form when heated to decomposition.

#### **Hazardous Polymerization**

Will not occur under normal conditions of use (See Sections 10.4 & 10.5).

### 5.3 Advice for Firefighters

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

# 5.4 Further Information

No data available.

### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

#### 6.1 Personal Precautions

Wear appropriate protective equipment as specified in Section 8.

#### 6.2 Environmental Precautions

Prevent discharge into the environment. Dike spills and stop leakage where practical. Do not allow material to enter drains.

#### 6.3 Methods and Materials for Containment and Cleaning Up

Ventilate area of leak or spill. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container.

# 6.4 References to Other Sections

For disposal information, see Section 13. For protective clothing and equipment, see Section 8.

# **SECTION 7 - HANDLING AND STORAGE**

### 7.1 Precautions for Safe Handling

Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

### 7.2 Conditions for Safe Storage (including any incompatibles)

Keep in a tightly closed container, stored in a cooled, dry, ventilated area. Protect from physical damage. Isolate from incompatible materials (section 10).

### Incompatibles

Strong oxidizers, acids.

### 7.3 Specific End Uses

Investigational research by professional users

#### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PRECAUTIONS

### 8.1 Control Parameters

ACGIH Threshold Limit Value (TLV): none established

# 8.2 Exposure Controls

## **Engineering Controls**

Not expected to require any special ventilation.

### **Respiratory Protection**

Not expected to require personal respirator usage.

#### **Eye Protection**

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

### **Skin Protection**

Wear protective gloves and clean body covering clothing.

### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1 Information on Basic Physical & Chemical Properties

| a. Appearance                            | Amber liquid         | b. Odor  | None                 |
|--|----------------------|--|----------------------|
| c. Odor Threshold                        | N.A.                 | d. pH  | No information found |
| e. Melting/Freezing Point (°C)           | No information found | f. Boiling point (°C)                              | > 100C (> 212 F)     |
| g. Flash Point (°C)                      | 148                  | h. Evaporation Rate                                | No information found |
| i. Flammability                          | N.A.                 | j. Upper/Lower Flammability or<br>Explosive Limits | N.A.                 |
| k. Vapor Pressure                        | < 1.0 @ 20 C         | I. Vapor Density (Air = 1)                         | No information found |
| m. Relative Density                      | 1.11                 | n. Water Solubility                                | Soluble              |
| o. Partition Coefficient n-octanol/water | log Pow 1.23         | p. Autoignition Temperature (°C)                   | N.A.                 |
| q. Decomposition Temperature (°C)        | N.A.                 | r. Viscosity                                       | No data available.   |
| s. Explosive Properties                  | N.A.                 | t. Oxidizing Properties                            | Not an oxidizer      |

### **SECTION 10 - STABILITY AND REACTIVITY**

# 10.1 Reactivity

Not reactive under normal use conditions.

## 10.2 Chemical Stability

Stable under ordinary conditions of use and storage.

# 10.3 Possibility of Hazardous Reactions

Will not occur under normal conditions of use (See Sections 10.4 & 10.5).

# 10.4 Conditions to Avoid

Incompatibles.

# 10.5 Incompatible Materials

Strong oxidizers, acids.

# 10.6 Hazardous Decomposition Products

Carbon dioxide and carbon monoxide may form when heated to decomposition.

# **SECTION 11 - TOXICOLOGICAL INFORMATION**

Product LD50 Values Oral Rat LD50 (mg/kg)

oczoo

36700

# Dermal Rabbit LD50 (mg/kg)

No information found.

# **Component Cancer List Status**

|                | NTP Ca | NTP Carcinogen |               |  |
|----------------|--------|----------------|---------------|--|
|                | Known  | Anticipated    | IARC Category |  |
| Polysorbate 20 | No     | No             | none          |  |

### **Potential Health Effects**

# Inhalation

Not expected to be a health hazard by inhalation.

### Ingestion

Large doses may produce abdominal spasms, diarrhea.

### Skin

May cause irritation or sensitization in sensitive individuals.

#### Eyes

May cause irritation.

# Carcinogenicity

Not listed as a known or anticipated carcinogen by NTP or IARC.

### Mutagenicity

No information found.

# **Reproductive Toxicity**

No information found.

### **Teratogenic Effects**

No information found.

## **Routes of Entry**

No information found.

# **Target Organ Statement**

No information found.

# **SECTION 12 - ECOLOGICAL INFOMATION**

# 12.1 Toxicity

|   | Vertebrates | Invertebrates | Algae   | Microorganisms |  |
|---|-------------|---------------|---------|----------------|--|
| Aquatic Toxicity (ppm unless otherwise noted)                 | No data     | No data       | No data | No data        |  |
|   | Birds       | Arthropods    | Plants  | Microorganisms |  |
| Terrestrial Environment Toxicity (ppm unless otherwise noted) | No data     | No data       | No data | No data        |  |

## 12.2 Persistence and Degradability

No data

# 12.3 Bioaccumulative Potential

No data

# 12.4 Mobility in Soil

No data

# 12.5 Results of PBT and vPvB Assessment

No data

## 12.6 Other Adverse Effects

None

# **SECTION 13 - DISPOSAL CONSIDERATIONS**

# 13.1 Waste Treatment Methods

Offer surplus or non-recyclable product to licensed disposal company. Disposal is subject to user compliance with applicable law and product characteristics at time of disposal. Dispose of packaging as product.

# **SECTION 14 - TRANSPORT INFORMATION**

|                            | ADR/RID        | IATA           | IMO            | DOT            |
|----------------------------|----------------|----------------|----------------|----------------|
| 14.1 UN Number             | N.A.           | N.A.           | N.A.           | N.A.           |
| 14.2 Shipping Name         | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.3 Hazard Class          | N.A.           | N.A.           | N.A.           | N.A.           |
| 14.4 Packing Group         | N.A.           | N.A.           | N.A.           | N.A.           |
| 14.5 Environmental Hazards | N.A.           | N.A.           | N.A.           | N.A.           |
| 14.6 Special Precautions   | N.A.           | N.A.           | N.A.           | N.A.           |

# **SECTION 15 - REGULATORY INFORMATION**

# 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance/Mixture United States

### **TSCA Regulatory Statement**

All intentional ingredients are listed on the TSCA Inventory.

### SARA 311/312 Hazard Categories

| Component      | Fire | Pressure | Reactivity | Acute | Chronic |
|----------------|------|----------|------------|-------|---------|
| Polysorbate 20 | No   | No       | No         | Yes   | No      |

## **Europe**

#### EEC Regulatory

All intentional ingredients are listed on the European EINECS Inventory.

### **SECTION 16 - OTHER INFORMATION**

# **Revisional Updates**

4/26/2019 - Updated Section 1.4 5/29/2015 - Updated Sections 2.1 and 3.1

7/24/2013 - Released Version 1.0

## **NFPA Codes**

Health 1 Flammability 0 Reactivity 0

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