



## Section 1 - Product and Company Identification

Date of MSDS: 12/18/02

**Product Identification:** TCS Unbreakable

**Product Synonym:** TCS

**Product Class/Use:** Moulding compound

**Company Name:** Thermoplastic Comfort Systems, Inc

**Company Address:** 2619 Lime Ave.

Signal Hill, CA 90755

**General Information Telephone:** (562)-426-2970

**Emergency Telephone:** Not required by regulations.

## Section 2 - Composition/Information on Ingredients

TCS Unbreakable does not contain any components considered to be health hazards under the OSHA Hazard Communication Standard in 29 C.F.R. §1910.1200 or under the WHMIS Controlled Product Regulations in Canada.

TCS Unbreakable® resin is pure nylon resin with trace amounts of colorants.

## Section 3 - Hazards Identification, Including Emergency Overview

### --- *Emergency Overview* ---

Caution! Fumes from hot processing may be irritating to eyes and respiratory tract.

### Routes of Exposure/Potential Health Hazards:

**Inhalation:** Dust or fumes from hot processing may cause irritation.

**Eyes:** Fumes from hot processing may cause eye irritation.

**Skin:** Not expected in normal use.

**Ingestion:** Not expected route of exposure.

## Section 4 - First Aid Measures

### First Aid:

**Inhalation:** If fumes from hot processing are inhaled, victim should be moved into fresh air. If breathing is difficult, victim should be given oxygen. If unconscious, evaluate need for artificial respiration and obtain immediate medical attention.

**Eyes:** If contact occurs, flush eyes immediately with ample water. If irritation develops, seek medical attention.

**Skin:** If contact occurs, wash skin immediately with water. If the product is hot, immediately immerse or flush the affected area with large amounts of cold water to dissipate heat. Cover affected area with clean cotton sheeting or gauze and obtain prompt medical attention. Do not make an attempt to remove material from skin or contaminated clothing as the damaged skin can be easily torn.



**Ingestion:** N/A – not expected route of exposure.

**Section 5 - Fire Fighting Measures**

**Fire Fighting Procedures:**

Wear self-contained positive-pressure breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.

**Extinguishing Media:**

Water spray, fog, foam, dry chemical or CO<sub>2</sub>.

**OSHA Flammability Classification:** None

**Flash Point/ Method:** Not determined

**Autoignition Temperature:** > 350°C

**Explosive Lower Limit(s):** Not determined

**Explosive Upper Limit(s):** Not determined

**Section 6 - Accidental Release Measures**

**Spill Release Procedures:**

Allow molten material to solidify and scrape up. Collect material and place in disposal container. Follow relevant local, state, provincial and federal laws and regulations. Avoid contamination of lakes, streams, ponds, groundwater or soil.

**Section 7 - Handling and Storage**

**Handling and Storage Precautions:**

Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing vapors from heated material. Store in a cool, dry place.

**Section 8 - Exposure Controls & Personal Protection**

TCS Unbreakable does not contain any components considered to be health hazards under the OSHA Hazard Communication Standard in 29 C.F.R. §1910.1200 or under the WHMIS Controlled Product Regulations in Canada.

**Additional Exposure Limit Information:**

**Dust:**

**Particulates not otherwise classified:**

	<i>Value</i>	<i>Limit</i>	<i>Ref.</i>
Inhalable particulate	10 mg/m <sup>3</sup>	TWA/TLV	OSHA
Respirable particulate	3 mg/m <sup>3</sup>	TWA/TLV	OSHA

**Particulates not otherwise regulated:**

	<i>Value</i>	<i>Limit</i>	<i>Ref.</i>
Total particulate	15 mg/m <sup>3</sup>	TWA/PEL	OSHA
Respirable particulate	5 mg/m <sup>3</sup>	TWA/PEL	OSHA

**Ventilation:** If use operations generate dust, fume or mist, use ventilation to control airborne exposure.

**Respiratory Protection:** In case of exposure to fumes in hot processing, use appropriate NIOSH-approved respiratory protective equipment.

**Eye Protection:** Wear safety glasses with side shields.



**Skin Protection:** Wear impermeable gloves.

**Other Protective Equipment:** A safety shower and eye wash fountain should be readily available. It is recommended that a hazard assessment in accordance with the OSHA Personal Protective Equipment (PPE) Standard in 29 C.F.R. §1910.132 be conducted before using this product in order to identify additional PPE requirements.

### Section 9 - Physical & Chemical Properties

**Boiling Point:** Not available

**Melting Point:** Not available

**pH:** Not available

**Vapor Pressure:** Not available

**Vapor Density:** Heavier than air (i.e., >1)

**Specific Gravity:** Not available

**Evaporation Rate:** Slower than Butyl Acetate

**Solubility in Water:** Negligible

**Appearance:** Granulate

**Odor:** Odorless

### Section 10 - Stability & Reactivity Data

**Stability:** Stable under normal storage conditions.

**Hazardous Polymerization:** Will not occur under normal conditions.

**Conditions to Avoid:** Decomposition temperature: > 350° C (662° F).

**Incompatibility with Other Materials:** No known incompatibility with other materials.

**Hazardous Decomposition Products:** No known hazardous decomposition products.

### Section 11 - Toxicological Information

**Toxicological Information:**

Not available.

### Section 12 - Ecological Information

**Ecological Information:**

Not available.

### Section 13 - Disposal Considerations

**Waste Disposal Methods:** Incinerate. Follow all federal, state, and local regulations.

### Section 14 - MSDS Transport Information

**U.S. DOT Information:** Not regulated.

### Section 15 - Regulatory Information



### Federal Regulatory Information:

**OSHA:** This product does not contain a hazardous chemical listed in the National Toxicology Program 10<sup>th</sup> Annual Report on Carcinogens.

**Clean Air Act Section 112:** This product does not contain components at or above the OSHA de minimus level or listed as Hazardous Air Pollutants. This product does not contain components at or above the OSHA de minimus level or listed as Extremely Hazardous Air Pollutants.

**Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III /Emergency Planning and Community Right to Know Act (EPCRA)**

**Section 302:** This product does not contain components listed as Extremely Hazardous Substances.

**Section 311/312:** Hazard Classifications: None

**Section 313:** This product does not contain components subject to reporting requirements.

### State Regulatory Information:

**Massachusetts:** This product does not contain any substances listed on the Massachusetts Substance List.

**California:** Proposition 65: This product does not contain any substances known to the State of California to cause cancer or adverse reproductive effects.

## Section 16 - Other Information

**HMIS Ratings:** (4 = Highest Hazard, 0 = Lowest Hazard, \* = Chronic Health Hazard, N = No rating for powders)

**Health:** 1

**Flammability:**

**Reactivity:** 0

**NFPA Ratings:** (4 = Highest Hazard, 0 = Lowest Hazard, N = No rating for powders)

**Health:** 1

**Flammability:**

**Reactivity:** 0

### NOTICE

All information, recommendations and suggestions appearing herein concerning this product are based upon data obtained from the manufacturer and/or recognized technical sources; however, Thermoplastic Comfort System, Inc. makes no warranty, representation or guarantee as to the accuracy, sufficiency, or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his/her own use, handling and disposal of the product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Thermoplastic Comfort System, Inc. as to the effects of such use. Thermoplastic Comfort System, Inc. does not assume any liability arising out of use by others of the product referred to herein. The data in this Material Safety Data Sheet relate only to the specific material designated herein and does not relate to use in combination with any other material.