Section 1. Product Identification

Product Name: TMD TX1001T  Non-asbestos Friction Material

Section 2. Hazardous Ingredients and Exposure Limits

<table>
<thead>
<tr>
<th>COMPOSITION</th>
<th>CAS NUMBER</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
<th>ACGIH TLV (i) UNITS</th>
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<tbody>
<tr>
<td>Trade secret</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>*NOTE: This product is an &quot;Article&quot; as defined by 29 CFR 1910.1200(c).</td>
<td></td>
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<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>3.5 mg/m³</td>
<td>1,750 mg/m³</td>
<td>3.5 mg/m³</td>
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</table>

The ingredients of the product are considered a trade secret and confidential under 29 CFR 1910.1200(i). The information contained herein describes the properties and effects of the product when used according to the manufacturer’s instructions.

*See 29 CFR 1910.1000, Table Z-3. The OSHA PEL varies by percent silica.

Section 3. Hazard Identification

3.1 Emergency Overview

The product is a solid. Routes of entry into the body include inhalation and accidental ingestion of dust if generated.

3.2 Potential Health Effects

Potential adverse health effects associated with:

- **Eye**: Exposure to dust from this product may cause redness or irritation to the eyes or eyelids.

- **Skin**: This product may cause allergic sensitization, rash or itching to exposed skin.
3.2 Potential Health Effects (continued)

Inhalation
This product should not pose an inhalation hazard under normal conditions of use, when used in accordance with manufacturer’s guidelines. However, inhalation of dust from the product may cause respiratory tract irritation.

Ingestion
Ingestion of dust from this product may cause digestive tract irritation and abdominal discomfort.

Chronic Exposure
Chronic exposure to dust from this product may cause difficulty breathing and pneumoconiosis.

Aggravated Medical Conditions
Diseases of the respiratory and cardiovascular system may be aggravated by exposure to dust from this product.

Section 4. First Aid Measures

Eyes: After contact with dust, irrigate under eyelids with water for 15 minutes and seek medical attention.

Skin: After contact with constituents, wash off thoroughly with mild soap and water.

Inhalation: Move victim to fresh air; obtain medical attention as appropriate.

Ingestion: Obtain prompt medical attention.

Section 5. Fire-Fighting Measures

Flash Point: Not determined.

Autoignition Temperature: Not determined.

Flammable Limits: Not determined.

Fire Extinguishing Media: Water, foam, ABC-powder, or Halon.

Special Fire Fighting Procedures: As with any fire, wear self-contained breathing apparatus and appropriate respiratory and dermal protection equipment.

Fire and Explosion Hazards: Under normal conditions, this product should not pose a fire or explosion hazard.

Section 6. Accidental Release Measures

Steps to be taken if material is released or spilled:

Wear appropriate personal protective equipment if large amounts of dust are generated. Avoid generating dust when collecting material. Collect waste for approved disposal in accordance with all Federal, State and Local laws and regulations.
Section 7. Handling and Storage

Avoid dust and dust accumulation. Dust removal by suitable industrial vacuum cleaner, central exhausting or wet methods. Store in a ventilated, dry storage area. Do not store with corrosive materials (acids and bases), or oxidizers.

Section 8. Exposure Controls/Personal Protection

Ventilation: Under some industrial conditions, use of local ventilation may be appropriate to control dust hazards.

Respiratory Protection: If needed, use a NIOSH-approved dust mask/respirator when exposed to respirable dust. Follow OSHA requirements found in 29 CFR 1910.134 regarding respirators.

Eye Protection: Use safety glasses with side shields when handling material.

Skin Protection: Use appropriate rubber gloves when handling material. Light protective clothing is recommended. Wash hands before eating.

Note: Personal protection information in Section 8 is based upon general information for normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the assistance of an industrial hygienist or other qualified professional be sought.

Section 9. Physical and Chemical Properties

Appearance: Grey solid
Odor: Not characteristic
Melting Point: Not determined
Boiling Point: Not determined
Vapor Pressure: Not determined
Vapor Density (Air = 1): Not determined
Solubility in Water: Practically insoluble
Specific Gravity (H₂O = 1): Density = 2000 kg/m³
Percent Volatile by Volume: Not determined
Evaporation Rate (Ethyl Ether = 1): Not determined
Viscosity: Not determined
**Section 10. Stability and Reactivity**

**Stability:** Under normal handling and storage conditions, this product is stable.

**Storage Conditions:** Store at room temperature.

**Incompatibility (Materials to Avoid):** Do not store with corrosive materials (acids and bases), or oxidizers.

**Hazardous Polymerization:** Hazardous polymerization is not expected to occur.

**Hazardous Decomposition Products:** At elevated temperatures, this product may decompose to release trace amounts of formaldehyde vapor. Decomposition products include CO and CO₂.

**Section 11. Toxicological Information**

Allergic sensitivity from trace amounts of formaldehyde may occur due to exposure to this material.

**Section 12. Ecological Information**

Ecological data is not available.

**Section 13. Disposal Considerations**

Unused product should be discarded in accordance with existing federal, state, and local environmental regulations.

**Section 14. Transport Information**

<table>
<thead>
<tr>
<th>D.O.T. Shipping Name</th>
<th>Non-regulated</th>
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<tbody>
<tr>
<td>Hazard Class</td>
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<tr>
<td>ID Number</td>
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</tr>
<tr>
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<td>Shipping Description</td>
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</tr>
<tr>
<td>Packaging References</td>
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</tbody>
</table>
Section 15. Regulatory Information

This product or its components meets the following hazard definition(s) as defined by the Occupational Safety and Health Hazard Communication Standard (29 CFR Section 1910.1200):

☐ Combustible Liquid  ☐ Flammable Aerosol  ☐ Oxidizer
☐ Compressed Gas  ☐ Explosive  ☐ Pyrophoric
☐ Flammable Gas  ☐ Health Hazard (Sections 3 and 11)  ☐ Unstable
☐ Flammable Liquid  ☐ Organic Peroxide  ☐ Water Reactive
☐ Flammable Solid

Based on information presently available, this product does not meet any of the hazard definitions of 29 CFR Section 1910.1200.

*NOTE: This product is an “Article” as defined by 29 CFR 1910.1200(c).

Section 16. Other Information

This Material Safety Data Sheet is offered solely for your information, consideration, and investigation.

TMD Friction, Inc. or its writer provides no warranties, either express or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein.

Prepared by: ____________________ Date: August 18, 2003