

MATERIAL SAFETY DATA SHEET

(Adaptation of OSHA Form OMB No. 1218-0072)

TEMTRO™ Dry Gel

Section I - Product Identification

Identity: TEMTRO™ Dry Gel

Manufacturer's Name: TEMTRO Company

Address: P.O. Box 2052, Alpharetta, GA 30023

Emergency Telephone Number: Chemtrec (24 hours) 1-800-424-9300

Telephone Number for Information: 678-867-0461

Date Prepared: November 15, 2001

Section II - Composition/Information on ingredients

Superabsorbent Crosslinked Sodium Polymer

OSHA PEL: NE

ACGIH TLV: NE

Other Limits Recommended: Recommended inhalation exposure limit guideline is 0.05 mg/m³

Section III - Physical/Chemical Characteristics

Boiling Point: NE

Vapor pressure (mm Hg.): Less than 10

Vapor Density (AIR=1): NE

Solubility in Water: Insoluble

Appearance and Odor: White granular powder with no odor

Specific Gravity (H₂O=1): Bulk Density: 0.4-0.7

Melting Point: > 390⁰F

Evaporation Rate (Butyl Acetate=1): < 1

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used): None

Flammable Limits: NE

Extinguishing Media: Water, CO₂, and dry chemical extinguishants

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: Water based. Difficult to ignite unless directly involved in flame. Extremely slippery conditions are created if spilled and comes into contact with water

Section V - Reactivity Data

=====
=====
Stability: Stable

Incompatibility (Materials to Avoid): Strong Oxidizers

Hazardous Decomposition or Byproducts: Thermal Decomposition:
CO,

CO₂, Hydrocarbons, oxides of carbon and nitrogen. DO NOT breathe
fumes or smoke.

Hazardous Polymerization: May Not Occur

Conditions to Avoid: None Known

=====
=====
Section VI - Health Hazard Data
=====
=====

Router(s) of Entry:

Inhalation? Yes

Skin? No

Ingestion? No

Health Hazards:

Acute (short term) inhalation of dust may cause mild irritation of upper
respiratory tract (nose and throat) and lungs

Chronic(long term) inhalation exposure to rats for a lifetime (2 years) using
the superabsorbent crosslinked polymer that had been micronized to a
respirable particle size (less than 10 microns) produces non specific
inflammation and chronic lung injury at 0.2 mg/m³ and 0.8 mg/m³

At 0.8 mg/m³ tumors were seen in some animals. In the absence of chronic inflammation, tumors are NOT expected. There were NO adverse effects of any kind at 0.05 mg/m³

No effects in mutagenicity tests

Carcinogenicity:

NTP? No

IARC Monographs? No

OSHA Regulated? No

Signs and Symptoms of Exposure:

Possible reddening, drying of skin or eyes with itching, burning or other discomfort; irritation of nose and throat

Medical Conditions Generally Aggravated by Exposure:

May aggravate existing respiratory conditions; skin conditions (due to drying effect)

Emergency and First Aid Procedures:

Ingestion:

Drink copious amounts of water and consult physician.

Inhalation:

Remove to source of fresh air.

Eyes:

Flush with water and consult physician.

Skin:

Wash with soap and water.

Call a physician regarding any continued discomfort

=====

=====
Section VII - Precautions for Safe Handling and Use
=====

=====
Steps to be taken in case material is released or spilled:

Avoid contact with water. Product is extremely slippery when contacted with water. Protective shoes may be worn and product may be shoveled up and placed in container for disposal.

Waste Disposal Method:

Dispose of in accordance with all local, state, and federal regulations. Non-hazardous material waste material suitable for approved solid waste landfill.

Precautions to be Taken in Handling and Storage:

Handle as eye irritant. Do not get into eyes. Avoid prolonged or repeated skin contact. Do not inhale dust. Do not ingest.

Other Precautions:

Dusty conditions may irritate the eyes and respiratory system. Wear goggles and mask with high efficiency filter where dust is created.

=====
Section VIII - Control Measures
=====

=====
Respiratory Protection(Specify Type): Wear respirator or mask with high efficiency filter for particulate levels above 0.05 mg/m³

Ventilation: Local exhaust to ensure airborne particulates are removed. Mechanical ventilation recommended.

Eye Protection: Safety glasses or goggles.

Protective Gloves: Impervious rubber.

Other Protective Clothing or Equipment: None

Work/Hygienic Practices: Use good housekeeping practices. Wash thoroughly after handling.

ABBREVIATIONS:

NA= Not Applicable; NH= Non Hazardous; NE=Not Established

The information contained herein has been compiled from sources believed to be reliable and is accurate to the best of our knowledge. However, FREEZEZE cannot give any guarantees regarding information from other sources, and expressly does not make any warranties, nor assumes any liability for its use.