



Hummel Croton Inc.
10 Harmich Road
South Plainfield, NJ 07080

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MSDS



Tetranitromethane

In case of Emergency Call Chemtrec®
(U.S.) (800)-424-9300
(International) (703)-527-3887

Section I. Chemical Product and Company Identification

Supplier:

Hummel Croton Inc.
10 Harmich Road
South Plainfield, NJ 07080
(908)-754-1800

Chemical Name: Tetranitromethane

Synonym: TNM

CAS Number: 509-14-8

Chemical Formula: C(NO₂)₄

HMIS Rating

Health	3
Flammability	1
Reactivity	2

Personal Protection E

Section II. Composition and Information on Ingredients

Material	CAS#	%	OSHA	ACGIH
Tetranitromethane	509-14-8	100%	8mg/m ³	0.005ppm

Section III Hazards Identification:

Acute Health Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound. May be fatal if inhaled, swallowed, or absorbed through skin. Causes eye irritation. Causes skin irritation. Absorption into the body leads to the formation of methemoglobin, which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer. Can cause CNS depression.

Chronic Health Effects: Carcinogen. Damage to the heart Damage to the eyes

Acute Health Effects: This product is listed by NTP (Sufficient evidence of carcinogenicity from studies in experimental animals) and OSHA (Suspected Human Carcinogen: Agent is carcinogenic in experimental animals at dose levels, by route(s) of administration, at site(s), of histology type(s), or by mechanism(s) considered relevant to worker exposure. Available epidemiological studies are conflicting or insufficient to confirm an increased risk of cancer in exposed humans) as suspected human carcinogen.

Section IV. First Aid Measures

First Aid For Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

First Aid For Skin: In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

First Aid For Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

First Aid For Ingestion: If swallowed, call a physician immediately.

Section V. Fire and Explosion Data

Flammability: Non-Flamable

Flash Points: Greater than 110°C

Auto-Ignition: 250-278°C

Flammable Limits: Not Applicable

Extinguishing Media: Water spray. Carbon dioxide, dry chemical powder or appropriate foam.

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Fire/Explosion Hazards: May explode when heated. OXIDIZER. Emits toxic fumes under fire conditions.

Section VI. Accidental Release Measures

Spill Or Leak Procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water

Section VII. Handling and Storage

Storage Temperatures: Store at ambient temperature

Shelf Life: Unlimited in tightly closed container.

Special Sensitivity: None

Handling/Storage Precautions: Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials (see Section X). Reseal containers immediately after use. Store away from food and beverages.

Section VIII. Exposure Controls/Personal Protection

Eye Protection: Safety glasses or goggles.

Skin Protection: PVC gloves with impervious boots, apron or coveralls. Employees should wash their hands and face before eating, drinking or using tobacco products.

Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.

Ventilation: Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.

Additional Protective Measures: Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of hazardous chemicals.

Section IX. Physical and Chemical Properties

Physical Form: Liquid

Color: Pale Yellow

Odor: Pungent Odor

Molecular Weight: 196.04

Boiling Point: 125.7°C

Melting/Freezing Point: 13.7-14.0°C

Solubility In Water: Insoluble

Specific Gravity: 1.62

Section X. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will Not occur

Incompatibilities: Strong Oxidizing Agents, Organic Materials, Strong Reducing Agents, Strong Bases, Finely Powdered Metals, Iron And Iron Salts, Copper, Brass, Zinc, and Alcohols

Instable Conditions: Excessive temperatures (see Incompatibilities).

Decomposition Temperature: Auto-ignition Temp 250-278°C

Decomposition products: Toxic Fumes Of: Carbon Monoxide, Carbon Dioxide & Nitrogen Oxides

Section XI. Toxicological Infomation

RTECS Number: PB4025000

Routes of Exposure: Eye contact. Ingestion. Inhalation. Skin contact.

Toxicity Data: Orl-Rat LD50: 130 mg/kg Ihl-Rat LC50: 18 ppm/4h Ivn-Rat LD50: 12600 ug/kg

Chronic Toxic Effects: Carcinogen. Damage to the heart Damage to the eyes

Acute Toxic Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation.

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Section XII. Ecological Information

Ecotoxicity: Not available at this time.

Section XIII. Disposal Considerations

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

Section XIV. Transportation Information

Proper Shipping Name: Tetranitromethane

UN Number: 1510

Class: 5.1

P.G.: I

Label Code: 5.1(6.1)

Reportable Quantity: RQ 10(4.54)

Section XV. Regulatory Information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) inventory List

California Proposition 65: This product contains levels of listed substances, which the state of California has found to cause cancer, birth defects or other reproductive effects.

SARA 313 Title III:

Section 302 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: None

Section XVI. Other Information

Prepared By: Mark Dugan

Date: January 05, 2009

Reason For Issue: Updated Format

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