



Hummel Croton Inc.
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South Plainfield, NJ 07080

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MSDS



In case of Emergency Call Chemtrec®
(U.S.) (800)-424-9300
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Red Lead

Section I. Chemical Product and Company Identification

Supplier:

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

HMIS Rating

Health	2
Flammability	1
Reactivity	0
Personal Protection	E

Chemical Name: Lead Tetraoxide

Synonym: Lead Orthoplumbate, Lead Oxide, Lead Oxide Red, Lead Tetraoxide, Red Lead, Red Lead Oxide, Trilead Tetraoxide

CAS Number: 1314-41-6

Chemical Formula: Pb₃O₄

Section II. Composition and Information on Ingredients

Material	CAS#	%	OSHA	ACGIH
Lead Tetraoxide	1314-41-6	100%	0.05mg/m ³ *	0.15mg/m ³ *

* as lead

Section III Hazards Identification:

Accute 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.

Chronic Health Effects: Lead is a cumulative poison. Increasing amounts can build up in the body and may reach a point where symptoms and disability may occur. These may include anemia, pale skin, a blue line at the gum margin, decreased handgrip strength, abdominal pain, severe constipation, nausea, vomiting, and paralysis of the wrist joint. Prolong exposure may result in kidney damage. If the nervous system is affected, usually due to very high exposures, the resulting effects include severe headaches, convulsions, coma, delirium and death. Continuous exposure may result in decreased fertility. Elevated lead exposure of either parent before pregnancy may increase chances of miscarriage or birth defects. Exposure of the mother during pregnancy may cause birth defects.

Accute Health Effects: This product is listed by EPA (EPA-B2 Sufficient evidence from animal studies; inadequate evidence or no data from epidemiological studies.) and IARC (IARC-2B possibly carcinogenic to humans: limited evidence in humans in the absence of sufficient evidence in experimental animals) as a suspected 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: Not Applicable

Auto-Ignition: Not Applicable

Flammable Limits: Not Applicable

Extinguishing Media: This material is not combustible and is not anticipated to react with commercially employed extinguishing media. Use appropriate extinguishing media for surrounding fire.

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Contain all fire suppression run-off.

Fire/Explosion Hazards: Incompatible with strong oxidizers, hydrogen peroxide, and active metals, such as sodium and potassium. This Product, when heated to decomposition temperature, may emit toxic fumes of lead.

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: Powder

Color: Bright Orange

Odor: Odorless

Molecular Weight: 685.6

Boiling Point: N/A

Melting/Freezing Point: Decomposes at 500°C

Solubility In Water: Insoluble

Specific Gravity: 8.8-9.45

Section X. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will Not occur

Incompatibilities: Reacts violently with hydrogen peroxide and other strong oxidizers to liberate hydrogen gas. Do not heat in the presence of aluminum, sodium metal, or potassium metal.

Instable Conditions: Excessive temperatures (see Incompatibilities).

Decomposition Temperature: Decomposes at 500°C

Decomposition products: Oxides of lead

Section XI. Toxicological Information

RTECS Number: OG5425000

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

Toxicity Data: IPR-RAT LD50: 630 mg/kg IPR-GPG LD50: 220 mg/kg

Chronic Toxic Effects: See Section III

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. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

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: Environmentally Hazardous Substance, Solid, n.o.s.(Red Lead)

UN Number: 3077

Class: 9

P.G.: III

Label Code: 9

Reportable Quantity: RQ 1(.454)

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: This product may be subject to reporting, lead Compounds. 90.7% Lead

Section XVI. Other Information

Prepared By: Mark Dugan

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