



Hummel Croton Inc.
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MSDS



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

Section I. Chemical Product and Company Identification

Supplier:

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

Chemical Name: Ammonium Chromate

Synonym: Ammonium Bichromate

CAS Number: 7789-09-5

Chemical Formula: $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$

HMIS Rating

Health	3
Flammability	0
Reactivity	1
Personal Protection	E

Section II. Composition and Information on Ingredients

Material	CAS#	%	OSHA	ACGIH
Ammonium Dichromate	7789-09-5	100%	0.1mg/m ³ as CrO ₃	0.05mg/m ³ as Cr

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. Inhalation of dichromate dusts can also cause ulceration and perforation of the nasal septum. Contact with breaks in the skin can cause ulceration (chrome sores). Other symptoms of exposure include erosion and discoloration of the teeth, nephritis, epigastria pain(Inflammation and ulceration of the gastrointestinal tract).

Chronic Health Effects: Carcinogen. May alter genetic material.

Acute Health Effects: This product is not listed by NTP, IARC or regulated as a Carcinogen by OSHA.

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: Water Spray

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

Fire/Explosion Hazards: Contact with other material may cause fire. Container explosion may occur under fire conditions. 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: Crystals

Color: Bright Orange

Odor: Odorless

Molecular Weight: 252.18

Boiling Point: ~180°C (dec)

Melting/Freezing Point: ~180°C (dec)

Solubility In Water: 27% by wt at 20°C

Specific Gravity: 2.15

Section X. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will Not occur

Incompatibilities: Strong Reducing Agents, Alcohols, Strong Acids Avoid Contact With Acid.

Instable Conditions: Excessive temperatures (see Incompatibilities).

Decomposition Temperature: ~180°C (dec)

Decomposition products: Nitrogen, Chromium Oxides, Ammonia

Section XI. Toxicological Information

RTECS Number: HX 765000

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

Toxicity Data: Toxicity Data, ORL-CHD LDLO: 99 mg/kg Mutation Data, DNR-sat: 50 mmol/l & DNR-bcs: 50 mmol/l

Chronic Toxic Effects: Carcinogen. May alter genetic material.

Acute Toxic Effects: Contact with breaks in the skin can cause ulceration (chrome sores). Other symptoms of exposure include erosion and discoloration of the teeth, nephritis, epigastric pain (inflammation and ulceration of the gastrointestinal tract).

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: Ammonium Dichromate

UN Number: 1439

Class: 5.1

P.G.: II

Label Code: 5.1

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 is or contains chemical(s) known to the state of California to cause cancer.

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 requirement. (Contains 41.26% Chromium)

Section XVI. Other Information

Prepared By: Mark Dugan

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