

MSDS # 44.00

Ammonium Dichromate



Section 1: Product and Company Identification

Ammonium Dichromate

Synonyms/General Names: Ammonium Dichromate**Product Use:** For educational use only**Manufacturer:** Columbus Chemical Industries, Inc., Columbus, WI 53925.

24 Hour Emergency Information Telephone Numbers

CHEMTREC (USA): 800-424-9300**CANUTEC (Canada): 613-424-6666**

Scholar Chemistry; 5100 W. Henrietta Rd, Rochester, NY 14586; (866) 260-0501; www.Scholarchemistry.com

Section 2: Hazards Identification

*Bright red-orange crystals; no odor.***HMIS (0 to 4)**

Health	4
Fire Hazard	1
Reactivity	2

DANGER! Strong oxidizing agent, highly toxic (poison) by ingestion, and known carcinogen

Target organs: Kidneys, liver, respiratory system.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Section 3: Composition / Information on Ingredients

Ammonium Dichromate, (7789-09-5), 100%

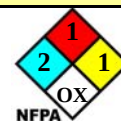
Section 4: First Aid Measures

*Always seek professional medical attention after first aid measures are provided.***Eyes:** Immediately flush eyes with excess water for 15 minutes, lifting lower and upper eyelids occasionally.**Skin:** Immediately flush skin with excess water for 15 minutes while removing contaminated clothing.**Ingestion:** Call Poison Control immediately. Rinse mouth with cold water. Give victim 1-2 cups of water or milk to drink. Induce vomiting immediately.**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration.

Section 5: Fire Fighting Measures

Combustible solid and strong oxidizer. When heated, emits acrid fumes of NO_x, carbon oxides and ammonia.**Protective equipment and precautions for firefighters:** Use foam or dry chemical to extinguish fire.

Firefighters should wear full fire fighting turn-out gear and respiratory protection (SCBA). Cool container with water spray. Material is not sensitive to mechanical impact or static discharge.



Section 6: Accidental Release Measures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Sweep up spill and place in sealed bag or container for disposal. Wash spill area after pickup is complete. See Section 13 for disposal information.

Section 7: Handling and Storage

Yellow**Handling:** Use with adequate ventilation and do not breathe dust or vapor. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling.**Storage:** Store in Oxidizer Storage Area [Yellow Storage] with other oxidizers and away from any combustible materials. Store in a cool, dry, well-ventilated, locked store room away from incompatible materials.

Section 8: Exposure Controls / Personal Protection

Use ventilation to keep airborne concentrations below exposure limits. Have approved eyewash facility, safety shower, and fire extinguishers readily available. Wear chemical splash goggles and chemical resistant clothing such as gloves and aprons. Wash hands thoroughly after handling material and before eating or drinking. Use NIOSH-approved respirator with a dust cartridge. Exposure guidelines: Chromium IV compounds: OSHA PEL: 2.5 µg/m³, ACGIH: TLV: 0.01 mg/m³, STEL: N/A.

Section 9: Physical and Chemical Properties

Molecular formula	(NH ₄) ₂ Cr ₂ O ₇ .	Appearance	Bright red-orange crystals.
Molecular weight	252.10.	Odor	No odor.
Specific Gravity	2.15 g/mL @ 20°C.	Odor Threshold	N/A.
Vapor Density (air=1)	N/A.	Solubility	Soluble in water.
Melting Point	N/A.	Evaporation rate	N/A. (Butyl acetate = 1).
Boiling Point/Range	N/A.	Partition Coefficient	N/A. (log P _{OW}).
Vapor Pressure (20°C)	N/A.	pH	4, acidic.
Flash Point:	N/A.	LEL	N/A.
Autoignition Temp.:	N/A.	UEL	N/A.

N/A = Not available or applicable

Section 10: Stability and Reactivity

Avoid heat and ignition sources.

Stability: Stable under normal conditions of use and storage.

Incompatibility: incompatible with powdered metals, reducing materials, organic materials, oxidizing materials.

Shelf life: Fair, avoid heat.

Section 11: Toxicology Information

Acute Symptoms/Signs of exposure: **Eyes:** Redness, tearing, itching, burning, conjunctivitis. **Skin:** Redness, itching.

Ingestion: Irritation and burning sensations of mouth and throat, nausea, vomiting and abdominal pain. **Inhalation:** Irritation of mucous membranes, coughing, wheezing, shortness of breath,

Chronic Effects: Confirmed carcinogen

Sensitization: none expected

Ammonium Dichromate: LDL [child]; 99 mg/kg; LC50 [rat]; N/A; LD50 Dermal [rabbit]; N/A

Material is a confirmed carcinogen, IARC group 1, NTP Known

Section 12: Ecological Information

Ecotoxicity (aquatic and terrestrial): Contains a heavy metal. Toxic to terrestrial and aquatic plants and animals. Do not release to the environment.

Section 13: Disposal Considerations

Check with all applicable local, regional, and national laws and regulations. Local regulations may be more stringent than regional or national regulations. Use a licensed chemical waste disposal firm for proper disposal.

Section 14: Transport Information

DOT Shipping Name:	Ammonium Dichromate.	Canada TDG:	Ammonium Dichromate.
DOT Hazard Class:	5.1, pg II.	Hazard Class:	5.1, pg II.
Identification Number:	UN1439.	UN Number:	UN1439.

Section 15: Regulatory Information

EINECS: Listed (232-143-1) .

WHMIS Canada: C;D1A; D2A;D2B; - Oxidizing material; Very toxic; Carcinogen; Skin sensitization.

TSCA: All components are listed or are exempt.

California Proposition 65: Listed as a carcinogen.

The product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16: Other Information

Current Issue Date: January 23, 2009

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