SAFETY DATA SHEET

Section 1	Chemical Pro	duct and Company Identification		Page E1 of E2
	Aldon	I Rochester Street on, NY 14414 5) 226-6177	CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.	,
Product	AMMONIUM DICHRON	IATE		
Synonyms	Ammonium Bichromate	/ Dichromic Acid, Diammonium Salt / Diammo	onium Dichromate(VI)	
Section 2	Hazards Iden	tification		
Pictograms Target orga GHS Classi Oxidizing so Acute toxicit Acute toxicit Skin corrosic Skin sensitiz Acute toxicit Respiratory GHS Label H272: May i H301: Toxic H312: Harm H314: Causa H317: May o H330: Fatal H334: May o H340: May o H340: May o H360FD: Ma H372: Causa H400: Very f	lid (Category 2) y, oral (Category 3) y, dermal (Category 4) on (Category 1B) zation (Category 1) y, inhalation (Category 2) sensitization (Category 1) information: Hazard stat ntensify fire; oxidizer. if swallowed. ful in contact with skin. es severe skin burns and cause an allergic skin read if inhaled. cause allergy or asthma sy cause genetic defects. sause cancer. ay damage fertility. May da	ratory system V V V V V V V V V V V V V V V V V V V	 Precautionary statement: P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and upproversed provided to the provided	oking. ompatible orkplace. orotection. NTER or ral minutes. fortable for osed.

Ca Prop 65: This chemical is known to the State of California to cause cancer or reproductive toxicity. [Chromium, hexavalvalent compounds]

Section 3 Composition / Information on Ingredients				
Chemical Name	CAS #	%	EINECS	
Ammonium dichromate	7789-09-5	100%	232-143-1	

Section 4 First Aid Measures

INGESTION: TOXIC IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: FATAL IF INHALED. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE DAMAGE. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: HARMFUL IN CONTACT WITH SKIN. CAUSES SEVERE SKIN BURNS. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Use water. Do not use dry chemicals or foams. CO₂ or Halon[®] may provide limited control.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. In contact with easily oxidizable materials, this chemical may react rapidly enough to cause ignition, violent combustion or explosion.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Recover for reuse if not contaminated. Remove all sources of ignition. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8	Exposure Controls / Personal Protection				
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)	
Exposure Linits.	Ammonium dichromate	Not established	Not established	Not established	

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

approved respirator.							
Section 9 Physical & Chemical Properties							
Appearance: Solid. Bright, red-orange crystals Odor: No odor Odor threshold: Data not available pH: Data not available Melting / Freezing point: 170°C (338°F) Boiling point: Data not available Flash point: Data not available	Flammability (Explosion limit Vapor pressure Vapor density Relative densit	Evaporation rate (Butyl acetate = 1): 7.7 Flammability (solid/gas): Data not available Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): Data not available		Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available Viscosity: Data not available Molecular formula: $(NH_4)_2Cr_2O_7$ Molecular weight: 252.06			
Section 10 Stability & Reactivity							
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Incompatible materials: Strong oxidizers, reduci	00	, 0	materials.				
Hazardous decomposition products: Carbon o	xides, nitrogen oxid	es, and ammonia.					
Section 11 Toxicological Information	n						
Acute toxicity: Oral-rat LD50: 53.75 mg/kg; Inhalation-rat LC50: 0.156 mg/L/4hours; Demail-rabbit LD50:1640 mg/kg Skin corrosion/irritation: Data not available Serious eye damage/irritation: Eyes - rabbit - Severe eye irritation - Draize Test Respiratory or skin sensitization: May cause allergic respiratory and skin reactions. Germ cell mutagenicity: May alter genetic material. In vivo tests showed mutagenic effects. Carcinogenity: Data not available NTP: Known to be a human carcinogen. IARC classified: Group 1: Carcinogenic to humans. [Chromium VI compounds] OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Ca Prop 65: This chemical is known to the State of California to cause cancer or reproductive toxicity. [Chromium, hexavalvalent compounds] Reproductive toxicity: May cause reproductive disorders. STOT-single exposure: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory effects. Stort-repeated exposure: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory effects. Inhalation: Repeated or prolonged inhalation may cause asthma or nasal ulceration. This may result in perforation of the nasal septum. Symptoms may inc							
Section 12 Ecological Information							
Toxicity to fish: Gambusia affinis (fish, fresh water), TLm = 136 mg/L/96 hours Toxicity to daphnia and other aquatic invertebrates: No data available Toxicity to algae: No data available Persistence and degradability: No data available Mobility in soil: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.							
Section 13 Disposal Considerations							
These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. Section 14 Transport Information (US DOT / CANADA TDG)							
UN/NA number: UN1439 Shipping name: Ammonium dichromate							
Hazard class: 5.1 Packing group: II Reportable Quantity: 10 lbs (4.54 kg) Marine pollutant: No							
Exceptions: Limited quantity equal to or less than 1 Kg 2016 ERG Guide # 141							
Section 15 Regulatory Information							
A chemical is considered to be listed if the CAS number for							
Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL		
Ammonium dichromate	Listed	10 lbs (4.54 kg)	Not listed	Listed	Not listed		
Section 16 Other Information							
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure,

ERG: Emergency Response Guidebook. Form 06/2015