

MATERIAL SAFETY DATA SHEET

Product: **Sodium Dichromate**

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: Sodium Dichromate, Granular, Technical

Product Code: CH-7789120A

Chemical Formula: Na₂-Cr₂-O₇.2H₂O

General or Generic ID: Sodium Dichromate, dihydrate; Sodium Bichromate dihydrate

Company

ArtChemicals.com
2300 Davis Street
San Leandro, CA 94577-2204
510-639-4670

Emergency Telephone Number:

1-800-451-8346

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>CAS No.</u>	<u>Chemical Identity</u>	<u>Common Name</u>	<u>%</u>
7789-12-0	N/A	Sodium Dichromate	100

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye:

Very hazardous in case of eye contact (irritant/corrosive). Symptoms include stinging, tearing, redness and impairment of vision. The degree of injury will depend on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment.

Skin:

Very hazardous in case of skin contact (irritant/corrosive/permeator). The degree of injury will depend on the amount of material that gets on the skin and the speed and thoroughness of the first aid treatment.

Ingestion:

Very hazardous in case of ingestion. Severe over-exposure can produce lung damage, choking, unconsciousness or death.

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Inhalation:

Very hazardous in case of inhalation (lung irritant). Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death.

Symptoms of Exposure:

Not available.

Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation. Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Development Information:

ORAL (LD50): Acute: Not available.

The substance may be toxic to kidneys, liver, heart, upper respiratory tract.

Repeated or prolonged exposure to the substance can produce target organs damage.

Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Cancer Information:

Not available. Classified A1 (Confirmed for human.) by ACGIH.

Primary Route(s) of Entry:

Inhalation, skin absorption, skin contact, and eye contact.

4. FIRST AID MEASURES**Inhalation:**

If affected, promptly remove individual to fresh air. If not breathing, give artificial respiration. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Get medical attention immediately.

Ingestion:

Do NOT induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. Call physician immediately.

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Eyes:

Remove contact lenses if worn. In case of contact, immediately flush with water for at least 15 minutes. Do not use eye ointment. Seek medical attention immediately.

Skin:

Immediately remove contaminated clothing and thoroughly flush skin with plenty of water (15 minutes). Wash thoroughly with disinfectant soap and water. Cold water may be use. Launder clothing before reuse. Get medical attention immediately.

Note to Physicians:

Not available.

5. FIRE FIGHTING MEASURES

Flash Point: Non-flammable. Not applicable.

Explosive Limit: Not applicable.

Auto-ignition Temperature: Not applicable.

Hazardous Products of Combustion: Not applicable..

Extinguishing Media: Not applicable.

SPECIAL FIRE-FIGHTING PROCEDURES: Not available.

NFPA CODES: Health = 3 Flammability = 0 Reactivity = 0

6. PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled:

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface. If necessary: **Neutralize the residue with a dilute solution of sodium carbonate.**

Large Spill:

Oxidizing material. Poisonous solid.
Stop leak if without risk. Do not get water inside container. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substances damp using water spray. Do not touch

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spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal.

Neutralize the residue with a dilute solution of sodium carbonate. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

7. PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalis, reducing agents and combustibles. See NFPA 43A, Code for the Storage of Liquid and Solid Oxidizers. Keep locked up. Keep away from heat. Keep away from sources of ignition. Keep away from combustible material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as combustible materials, organic materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Be sure to use an approved/certified respirator or equivalent.

Skin Protection:

Wear resistant gloves. To prevent repeated or prolonged skin contact, wear impervious clothing and boots or lab coat.

Eye Protection:

Chemical splash goggles in compliance with OSHA regulations are advised. Face shield. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Other Protective Clothing or Equipment:

Provide sufficient mechanical ventilation to maintain exposure below level of overexposure. Boots. Full suit. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling product.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Reddish to orange crystalline solid. (Odorless.)

Molecular Weight: 298 g/mole

pH: 4

Boiling Point: Not available.

Melting Point: Decomposition temperature: 400 °C (752 °F).

Specific Gravity: 2.52 (Water=1).

Vapor Pressure: Not applicable.

Evaporation Rate: Not available.

Solubility in Water: Soluble in cold water.

10. STABILITY AND REACTIVITY

Incompatibility: Combustible materials, organic materials, dust generation, moisture.

Stability: Stable.

Hazardous Decomposition: N/A

Hazardous Polymerization: Will not occur.

Special Remarks on Reactivity: It may react violently with hydrazine.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (LD50): Not available.

CARCINOGENIC EFFECTS: Classified A1 (Confirmed for human.) by ACGIH, 1 (Proven for human.) by IARC.

MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. May cause damage to the following organs: blood, kidneys, heart and upper respiratory tract.

Acute Potential Health Effects:

Skin: Can severely irritate and burn the skin.

Eyes: Can severely irritate and burn the eyes with possible eye damage.

Inhalation: Harmful if inhaled. Can irritate the nose, throat and lungs causing coughing, wheezing, and/or shortness of breath. May cause ulceration and perforation of the nasal septum if inhaled in large quantities.

Ingestion: Harmful if swallowed. Causes gastrointestinal tract irritation and burns. May affect liver and urinary system (kidney damage)

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Chronic Potential Health Effects:

Skin: Prolonged or repeated skin contact can cause blisters, and deep ulcers and may cause skin sensitization, an allergic reaction.

Inhalation: Prolonged or repeated inhalation may cause asthma-like allergy. Future exposures can cause asthma attacks with shortness of breath, wheezing, cough, and/or chest tightness.

Ingestion: Repeated or prolonged ingestion may cause kidney damage and affect the liver.

12. ECOLOGICAL INFORMATION

Not available.

Possibly hazardous short-term degradation products are not likely. However, long-term degradation products may arise.

13. DISPOSAL CONSIDERATION

Waste Disposal Method:

Dispose of in accordance with all applicable local, state and federal regulations.

14. DOT SHIPPING NAME & IDENTIFICATION:

Oxidizing solid, toxic, n.o.s. (Sodium dichromate).

Class 5.1. Oxidizing material.

Class 6.1. Poisonous material.

UNNA: 3087. PG: II

15. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that information is current, applicable, and suitable to their circumstances.