




<a href="#">Silver Dichromate</a>		<a href="#">Pricing &gt;</a>
<b>Linear Formula</b>	Ag <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	
<b>Pubchem CID</b>	9932493	
<b>MDL Number</b>	MFCD00046159	
<b>EC No.</b>	232-044-3	
<b>IUPAC Name</b>	disilver; oxido-(oxido(dioxo)chromio)oxy-dioxochromium	
<b>Beilstein/Reaxys No.</b>	N/A	
<b>SMILES</b>	[O-][Cr](=O)(=O)O[Cr](=O)(=O)[O-].[Ag+].[Ag+]	
<b>Inchl Identifier</b>	InChI=1S/2Ag.2Cr.7O/q2*+1;;;;;;;;;;2*-1	
<b>Inchl Key</b>	FCSTLGIPUOGOC-UHFFFAOYSA-N	
<b>Signal Word</b>	Danger	
<b>Hazard Statements</b>	H300-H312-H314-H272-H332-H335	
<b>Hazard Codes</b>	O,T	
<b>Risk Codes</b>	49-8-43-50/53	
<b>Safety Statements</b>	53-17-45-60-61	
<b>RTECS Number</b>	N/A	
<b>Transport Information</b>	UN 3086 6.1, 5.1/PG I	
<b>WGK Germany</b>	3	

GHS Pictograms	<a href="#"><u>GHS07 Exclamation Point</u></a>
	
	<a href="#"><u>GHS03 Oxidizer</u></a>
	
	<a href="#"><u>GHS06 Skull and Crossbones</u></a>
	

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# SAFETY DATA SHEET

Date Accessed: 05/20/2024

Date Revised: 01/15/2022

## SECTION 1. IDENTIFICATION

**Product Identifiers:** All applicable American Elements product codes for CAS #7784-02-3

**Relevant identified uses of the substance:**  
Scientific research and development

Supplier details:  
American Elements  
10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351

Emergency telephone number:  
Domestic, North America +1 800-424-9300  
International +1 703-527-3887

## SECTION 2. HAZARDS IDENTIFICATION

Statements of Hazard: Oxidizer, Toxic  
Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system. May be fatal by ingestion and harmful by inhalation or skin absorption.  
Chronic Health Hazard: Not Available  
HMIS Rating: H:3 F:0 P:2  
NFPA Rating: H:3 F:0 R:2  
To the best of our knowledge, the toxicological

properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.



Pictogram:

Signal Word: Danger

Hazard Statement(s): H300 Fatal if swallowed

H312 Harmful in contact with skin

H314 Causes severe skin burns and eye damage

H272 May intensify fire; oxidizer.

H332 Harmful if inhaled

H335 May cause eye irritation

Precautionary Statement(s): P220 Keep/Store away from clothing/combustible materials.

P261 Do not breathe dust/fume/gas/mist/vapors/spray

P264 Wash skin thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P309+P311 IF exposed or if you feel unwell: call a POISON CENTER or doctor/physician

P332+P313 If skin irritation occurs: Get medical advice/ attention.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Silver dichromate

Synonyms: Not Available

CAS Number: 7784-02-3

MDL Number: MFCD00046159

EINECS Number: 232-044-3

Beilstein Registry Number: Not Available

Molecular Formula:  $\text{Ag}_2\text{Cr}_2\text{O}_7$

Molecular Weight: 431.72

Content: 99%

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## **SECTION 4. FIRST AID MEASURES**

Eye Contact: Flush eyes with large amounts of water for fifteen

minutes. Separate eyelids with fingers. If irritation persists, seek medical attention.

Skin Contact: Wash skin with soap and water. If irritation persists, seek medical attention.

Ingestion: Do not induce vomiting. Seek medical attention.

Inhalation: Move to a fresh air environment. Contact a physician if breathing becomes difficult.

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## **SECTION 5. FIREFIGHTING MEASURES**

Flash Point: Not Available

Explosion Limits: Lower: Not Available

Upper: Not Available

Autoignition: Not Available

Extinguishing Media: Carbon dioxide, dry chemical powder, alcoholresistant foam or water spray.

Protective Equipment: Wear self-contained respirator and fully protective impervious suit.

Specific Hazards: May emit hazardous fumes under fire conditions.

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal Protection: Wear a self-contained breathing apparatus, rubber

boots and gloves, and disposable coveralls. Dispose of

coveralls after use.

Keep unprotected persons away.

Environmental Protection: Keep spills out of sewers and bodies of water. Dike

and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

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## **SECTION 7. HANDLING AND STORAGE**

Handling: Avoid breathing dust, vapor, mist or gas.  
Avoid

contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away.

Storage: Store in a tightly closed container in a dry, wellventilated place.

Sensitivities: Not Available

Storage Temperature: 15 – 30 °C

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Eyes: Wear appropriate protective eyeglass or chemical

safety goggles. Make sure that there is an eyewash facility in your vicinity.

Skin: Wear impervious gloves and protective clothing.

Respiratory: Use a NIOSH approved respirator when exposure

limits are exceeded or if irritation or other symptoms are experienced.

Exposure Limits: Country Source Type Value

USA ACGIH TWA Not Available

USA OSHA STEL Not Available

USA OSHA PEL Not Available

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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Solid

Odor: Not Available

Melting Point: Not Available

Boiling Point: Not Available

pH Value: Not Available

Density: Not Available

Refractive Index, n<sub>20</sub>

D: Not Available

Viscosity: Not Available

Solubility in Water: Not Available

Vapor Pressure: Not Available

Vapor Density: Not Available

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## **SECTION 10. STABILITY AND REACTIVITY**

Stability: Stable under normal temperatures and

pressures.

Incompatibility: Strong oxidizing agents and reducing agents.

Conditions to Avoid: Heat, Flame, Sparks, other ignition sources

Hazardous Decomposition Products: Carbon oxides

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## **SECTION 11. TOXICOLOGICAL INFORMATION**

RTECS Reference: Not Available

Target Organs: Not Available

Toxicity Data: Not Available

Skin corrosion/irritation: Not Available

Serious eye damage/irritation: Not Available

Carcinogenicity: Not Available

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## **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity: Not Available

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

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## **SECTION 14. TRANSPORT INFORMATION**

DOT Shipping Name: Toxic Solids, Oxidizing, N.O.S.

DOT UN Number: UN3086

DOT Hazard Class: Class 6.1, 5.1

DOT Packing Group: I

IMDG Shipping Name: Toxic Solids, Oxidizing, N.O.S.

IMDG UN Number: UN3086

IMDG Hazard Class: Class 6.1, 5.1

IMDG Packing Group: I

IATA Shipping Name: Toxic Solids, Oxidizing, N.O.S.

IATA UN Number: UN3086

IATA Hazard Class: Class 6.1, 5.1

IATA Packing Group: I

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## **SECTION 15. REGULATORY INFORMATION**

United States:

Toxic Substance Control Act (TSCA): Not listed  
Superfund Amendments and Reauthorization Act  
(SARA 302): Not listed  
Superfund Amendments and Reauthorization Act  
(SARA 311/312): Not listed  
Superfund Amendments and Reauthorization Act  
(SARA 313): Not listed

European Union:

European Inventory of Existing Chemical Substances  
(EINECS): 232-044-3  
Hazard Codes: Not Available  
Risk Statements: Not Available  
Safety Statements: Not Available  
Canada  
Canadian Domestic Substances List (DSL): Not listed  
Canadian Non-Domestic Substances List (NDSL): Not listed

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## **16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.

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