



MSDS

Material Safety Data Sheet

Manufactured or**Distributed by:**

UIC, Inc.
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Emergency Numbers**In the US -****CHEMTREC: 1-800-424-9300****In Canada -****CANUTEC: 613-996-6666****Outside US and Canada -****Chemtrec: 703-527-3887**

Barium Chromate

1. Material Identification and Information

Synonyms: Barium compounds**CAS No.:** 10294-40-3**Product Code:** UIC, Inc. Catalog Numbers CM300-011 and CM300-039

2. Composition/Information on Ingredients

Hazardous Components 1% or greater; Carcinogens 0.1% or greater

COMPONENTS	CAS No.	Percent	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Barium	7440-39-3	54.2	0.5 mg/m ³	0.5 mg/m ³	ND
Chromium	7440-47-3	39.5	1.0 mg/m ³	0.5 mg/m ³	0.001 mg/m ³ (NIOSH ceiling, TWA)

3. Hazards Identification

Inhalation:

Corrosive and highly toxic, will cause irritation of respiratory tract. Symptoms range from coughing, chest pain, and burning of nose and throat, to laryngeal cancer, lung and sinonasal cancer, and liver and kidney damage.

Skin Contact:

Corrosive, can cause second and third degree burns with necrosis. Low exposure causes irritation and dermatitis, or slow healing lesions. Repeated contact can induce sensitization to chromium.

Eye Contact:

Contact with corrosive vapors and/or fumes may cause irritation redness, pain, tearing, blurred vision, or inflammation. Repeated exposure can cause conjunctivitis.

Ingestion:

Corrosive and toxic, will cause burning pain in mouth, throat, esophagus, and abdomen. Symptoms include nausea, dehydration, diarrhea, burns, fever, cramps, coma, and liver or kidney damage, leading to death.

Signs and Symptoms of Exposure:

Any irritation or burning of the eyes, skin, or respiratory system, or violent gastroenteritis.

Medical Conditions Aggravated by Exposure:

Severe toxic and corrosive, will aggravate even normal condition.

4. First Aid Measures**Inhalation:**

Remove to fresh air at once. If breathing has stopped, perform artificial respiration. Maintain airway and keep warm. If breathing is difficult, have qualified medical personnel administer oxygen. Get immediate medical attention.

Skin Contact:

Remove contaminated clothing immediately and wash before reuse. Wash affected areas with soap and water for 15-20 minutes until no chemicals remain. Cover serious burns and get immediate medical attention.

Eye Contact:

Flush eyes immediately with large amounts of water for 15-20 minutes, lifting upper and lower eyelids to remove all chemicals. Cover with sterile bandages and get medical attention immediately.

Ingestion:

Get medical attention immediately. If vomiting occurs, keep head below hips to prevent aspiration. Maintain airway and treat shock. Have qualified medical personnel perform gastric lavage to remove chromates, being careful of the corrosive acid.

5. Fire Fighting Measures

Flash Point: NA

Auto Ignition Temperature: NA

Flammability Limits in Air % by Volume: NA

Extinguisher Media:

Dry chemical, carbon dioxide, or water spray. Fog for larger fires.

Special Fire Fighting Procedures:

In storage area, use unmanned hose holder and withdraw from area until fire is out. Dike fire-fighting material for proper disposal. Use protective equipment to avoid breathing dust.

Unusual Fire and Explosion Hazards:

None

6. Accidental Release Measures

Shovel material into clean, dry container and cover, wearing suitable protective equipment. Keep combustibles away from spilled material and move containers from spill area.

7. Handling and Storage

Keep away from combustibles and reducing agents. Keep containers closed and plainly labeled. Store in a cool, dry area.

8. Exposure Controls/Personal Protection

Respiratory Protection:

Recommended is a high-efficiency particulate respirator with full face piece. Selection should be based on contamination levels in the workplace and the respirator should be approved by NIOSH-MSHA.

Skin Protection:

Impervious clothing and equipment to prevent any possibility of contact with Barium Chromate.

Eye Protection:

Splash-proof or dust resistant safety goggles.

Ventilation to be Used:

Local or general dilution to meet exposure limits.

Hygienic Work Practices:

If there is possibility of skin or eye contact, an eyewash fountain or quick drench shower must be provided in the immediate work area. Wash skin or hands immediately after exposure. Do not drink, eat, or smoke in the laboratory.

9. Physical and Chemical Properties

Boiling Point:	Decomposes	Specific Gravity:	4.5
Vapor Pressure:	NA	Melting Point:	Decomposes
Vapor Density:	NA	Evaporation Rate:	NA
Solubility in Water:	Insoluble In water	Water Reactive:	No

Appearance: Yellow powder or granules

Odor: Odorless.

10. Stability and Reactivity

Stability	<input checked="" type="checkbox"/> Stable	Conditions to Avoid	None
	<input type="checkbox"/> Unstable		

Incompatible Materials:

Hydrofluoric acid, reducing agents, hydrazine, hydroxylamine, and acetone. Flammable, oxidizable, or organic materials. Sulfuric acid is incompatible with many chemicals.

Hazardous Decomposition Products:

Toxic or hazardous gases including sulfur oxide and chromium trioxide.

Hazardous Polymerization	<input checked="" type="checkbox"/> Will not Occur	Conditions to Avoid	None
	<input type="checkbox"/> May Occur		

11. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure.

Carcinogen Listed in NTP OSHA IARC Not Listed

12. Ecological Information**Environmental Fate:**

No information found.

13. Disposal Considerations

Place in a clean, dry container for disposal in an approved waste facility according to Federal, State and Local regulations.

14. Transport Information**Domestic (Land, D.O.T.):****Proper Shipping Name:** Barium Compounds**Hazard Class:** 6.1**UN/NA:** UN1564**Packing Group:** II**Information Reported for Product/Size:** 200 grams**International (Water, I.M.O.):****Proper Shipping Name:** Barium Compounds**Hazard Class:** 6.1**UN/NA:** UN1564**Packing Group:** II**Information Reported for Product/Size:** 200 grams**International (Air, I.C.A.O.):****Proper Shipping Name:** Barium Compounds**Hazard Class:** 6.1**UN/NA:** UN1564**Packing Group:** II**Information Reported for Product/Size:** 200 grams**15. Regulatory Information****Federal, State & International Regulations****- SARA 313 -**

	<u>List</u>	<u>Chem Cat.</u>	<u>CERCLA</u>
Barium (7440-39-3)	Yes	Yes	No
Chromium (7440-47-3) (10034-81-8)	Yes	Yes	Yes

Chemical Weapons Convention: No

16. Other Information

(S.A.R.A.), SECTION 313 REPORTING REQUIREMENTS

This product contains the following listed chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 and of 40.CFR.372.

<u>CHEMICAL NAME</u>	<u>MAXIMUM & COMPOSITION</u>
Barium (as the element)	54.2%
Chromium (as the element)	39.5%

State Regulations - California Proposition 65 requires us to inform you that Barium Chromate contains hexavalent chromium. Hexavalent chromium is on the California Governor's list, "Chemicals known to cause cancer or reproductive toxicity." Use care when handling this chemical.

This information must be included in all MSDSs that are copied and distributed for this material.

NFPA Ratings: Health: **4** Flammability: **0** Reactivity: **0**

Label Hazard Warning: DANGER! CANCER HAZARD. CONTAINS BARIUM CHROMATE WHICH IS LISTED AS A CARCINOGEN. POISONING MAY AFFECT BLOOD, CENTRAL NERVOUS SYSTEM, LIVER AND KIDNEYS.

Product Use: Laboratory Reagent

UIC, Inc. has obtained the most current chemical information available to us in updating this Material Safety Data Sheet. However, users should always use caution when working with chemicals, as UIC, Inc. assumes no liability resulting from its use. Additionally, we make no warranty with respect to any information published on this sheet, either stated or implied.