



MATERIAL SAFETY DATA SHEET

BARIUM CHROMATE

C.A.S. Number: 10294-40-3

SECTION I – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT/MATERIAL: MIL-B-550

MANUFACTURER/DISTRIBUTOR: Atlantic Equipment Engineers
ADDRESS: 24 Industrial Avenue, P.O. Box 181
Upper Saddle River, NJ 07458

TELEPHONE/FAX NUMBERS: (201) 828-9400 / (201) 387-0291

EMERGENCY CONTACT: CHEMTREC (800) 424-9300 (USA)
(703) 527-3887 (Outside the USA)

PRODUCT NAME: Barium Chromate

SYNONYMS: Baryta Yellow, Lemon Yellow, Ultramarine Yellow

CHEMICAL FORMULA: BaCrO₄

CAS NUMBER: 10294-40-3

SECTION II – INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>EINECS</u>	<u>PERCENT</u>	<u>CAS NO.</u>
Barium Chromate	233-660-5	100%	10294-40-3

SECTION III – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: 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 material safety data sheets that are copied and distributed for this material.

POTENTIAL HEALTH EFFECTS: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucous membrane, vomiting, violent diarrhea, abdominal pain, difficulty breathing, slow pulse, irregular heartbeat, sore throat, coughing, possible liver damage, and bleeding and ulceration of nasal septum. Irritation to the eyes will cause watering and redness. Reddening, scaling and itching are characteristics of skin inflammation. Inhaling large doses will cause cardiac and respiratory failure, and hemorrhages in the gastrointestinal tract and kidneys. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

Information presented herein is believed to be accurate and reliable but is not intended to meet any specification and does not imply any guarantee or warranty by Atlantic Equipment Engineers. For more information and assistance, please call (201) 828-9400.

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SECTION IV – FIRST AID MEASURES

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.

SKIN CONTACT: In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

EYE CONTACT: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION: If swallowed, call a physician immediately. Remove chromates from stomach by gastric lavage.

SECTION V – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water, Dry Chemical, or Carbon Dioxide

SPECIAL FIRE FIGHTING PROCEDURES: Not considered to be a fire hazard. If possible, move containers away from fire and keep containers cool by means of a water spray.

FIRE AND EXPLOSION HAZARDS: Not considered to be an explosion hazard.

HAZARDOUS COMBUSTION PRODUCTS: No information found.

PROTECTIVE MEASURE IN FIRE: Use self-contained breathing apparatus.

SECTION VI – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTION IN SPILL: Utilize recommended protective clothing and equipment.

ENVIRONMENT: Collect wash water for approved disposal. Keep from entering water or ground water. Keep combustibles away from spilled material.

SPILL CLEAN UP: Shovel up spilled material into clean dry containers and cover. Remove containers from spill area. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water.

SECTION VII – HANDLING/STORAGE

HANDLING/STORAGE PRECAUTIONS: Store at ambient temperature. Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials. Reseal containers immediately after use. Store away from food and beverages.

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SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:	Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.
PROCESS CONDITIONS:	Chromates: 0.1 mg (Cr)/m ³ OSHA TWA; 0.05 mg (Cr)/m ³ ACGIH TWA; 0.001 mg (Cr)/m ³ NIOSH RECOMMENDED CEILING. Barium: Compounds: 0.5 mg (Ba)/m ³ TWA. Soluble: 0.5 mg (Ba)/m ³ ACGIH TWA
RESPIRATORS:	Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.
PROTECTIVE GLOVES:	Wear PVC gloves.
EYE PROTECTION:	Wear safety glasses or goggles or preferably a full face protecting high particulate dust respirator. Emergency showers and eye wash stations should be available.
OTHER PROTECTION:	Wear impervious boots and apron or coveralls.
HYGIENIC WORK PRACTICES:	Educate and train employees in the safe use and handling of hazardous chemicals. Employees should wash their hands and face before eating, drinking or using tobacco products.

SECTION IX – PHYSICAL/CHEMICAL PROPERTIES

APPEARANCE:	Fine powder
COLOR:	Yellow
SOLUBILITY DESCRIPTION:	Practically insoluble
SOLUBILITY VALUE (g/100 g H₂O):	Not applicable
ODOR/TASTE:	Odorless
MELTING POINT:	Not established
BOILING POINT:	Not applicable
SPECIFIC GRAVITY:	4.5

SECTION X – STABILITY AND REACTIVITY

STABILITY:	Stable. May react vigorously with reducing agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of chromium.
CONDITIONS TO AVOID:	Excessive temperatures and reducing agents.

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SECTION XI – TOXICOLOGICAL INFORMATION

TOXIC DOSE LD₅₀:	3000 mg/kg (oral rat)
TOXICOLOGICAL INFO:	Routes of Exposure: eye contact, ingestion, inhalation, and skin contact. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.
INHALATION:	Inhalation will cause irritation to the lungs and mucous membrane. Workers may experience an increased incidence of LUNG CANCER.
SKIN:	Irritating to the skin on contact. Reddening, scaling and itching are characteristics of skin inflammation.
EYES:	Irritates eyes on contact. Eye irritation will cause watering and redness.
MEDICAL SYMPTOMS:	Poisoning may affect the blood, central nervous system, liver and kidneys.

SECTION XII – ECOLOGICAL INFORMATION

TOXICITY:	No information found.
DISTRIBUTION:	No information found.
CHEMICAL FATE:	No information found.

SECTION XIII – DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	Waste disposal should be in accordance with existing federal, state and local environmental regulations.
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SECTION XIV – TRANSPORTATION INFORMATION

UN NO:	UN 3077
UN NO SEA:	UN 3077
ADR ITEM NO:	No information found.
ADR CLASS NO:	9
ADR PACKING GROUP:	III
PROPER SHIPPING NAME:	Environmentally Hazardous Substance, Solid, NOS (Barium Chromate)
IMDG CLASS NO:	9
IMDG PACKING GROUP:	III
RID CLASS NO:	9
EMS NO:	9

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SECTION XV – REGULATORY INFORMATION

Chemical Inventory Status Part 1

Chemical Inventory Status Part 2

Ingredient

	<u>TSCA</u>	<u>EINECS</u>	<u>Japan</u>	<u>Australia</u>	<u>Canada</u>	<u>Korea</u>	<u>DSL</u>	<u>NDSL</u>	<u>Phil.</u>	<u>China</u>
Barium Chromate 10294-40-3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Federal, State, International Regulations Part 1

Federal, State, International Regulations Part 2

Ingredient

	<u>SARA 302</u>		<u>SARA 313</u>		<u>RCRA</u>	<u>TSCA</u>	
	<u>RQ</u>	<u>TPQ</u>	<u>List</u>	<u>Chemical Catalog</u>	<u>CERCLA</u>	<u>261.33</u>	<u>8(d)</u>
Barium Chromate 10294-40-3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No information found.	No	<input type="checkbox"/>	<input type="checkbox"/>

Chemical Weapons Convention: ☐ TSCA 12(b): ☐ CDTA: ☐

SARA 311/312: Acute: ☐ Chronic: ☐ Fire: ☐ Pressure: ☐ Reactivity: ☐

Australian Hazchem Code: No information found.

Poison Schedule 15: No information found.

WHMIS 15: No information found.

SECTION XVI – OTHER INFORMATION

Atlantic Equipment Engineers (AEE) provides this information as it relates only to the specific product designated herein. All information contained in this MSDS should be provided to the user's employees and/or customers.

The information contained herein relates only to the environmental, health and safety precautions for the product and is not intended to be relied upon as technical specifications for commercial or other purposes. Do not use the ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification, refer to a Product Specification and/or a Certificate of Analysis provided by or requested from AEE.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process. This information is intended only as a guide to the appropriate precautionary handling of the product by a properly trained person. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. Conditions of use are beyond the control of AEE. Users are responsible to verify the applicability of this information under their own operating conditions to determine whether the product is suitable for a particular purpose and assume all risks of use, handling and disposal of the product, or from the publication, reliance upon or other use of the information contained herein.

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Reviewed: 11/12

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