



Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name Sodium Bromate **Product Code** SX0385

Manufacturer EMD Chemicals Inc.
P.O. Box 70
480 Democrat Road
Gibbstown, NJ 08027
Prior to January 1, 2003 EMD
Chemicals Inc. was EM
Industries, Inc. or EM Science,
Division of EM Industries, Inc.

Effective Date 9/7/2005

For More Information Call

856-423-6300 Technical Service
Monday-Friday: 8:00 AM - 5:00 PM

In Case of Emergency Call

800-424-9300 CHEMTREC (USA)
613-996-6666 CANUTEC (Canada)
24 Hours/Day: 7 Days/Week

Synonym BROMIC ACID, SODIUM SALT
Material Uses Analytical reagent.
Chemical Family Inorganic salt.

Section 2. Composition and Information on Ingredients

Component	CAS #	% by Weight
Sodium Bromate	7789-38-0	100

+Section 3. Hazards Identification

Physical State and Appearance Solid. (Crystals solid. Crystalline granules solid.)

Emergency Overview	WARNING! OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. HARMFUL IF SWALLOWED. CAUSES EYE AND SKIN IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. EMITS TOXIC FUMES WHEN HEATED.
Routes of Entry	Inhalation. Ingestion.
Potential Acute Health Effects	
Eyes	Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.
Skin	Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Inhalation	May be hazardous in case of inhalation (lung irritant).
Ingestion	Hazardous in case of ingestion.
Potential Chronic Health Effects	
Carcinogenic Effects	This material is not known to cause cancer in animals or humans.
	Additional information See Toxicological Information (section 11)
Medical Conditions Aggravated by Overexposure:	Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flammability of the Product	May be combustible at high temperature.
Auto-ignition Temperature	Not available.
Flash Points	Not available.
Flammable Limits	Not available.

Products of Combustion	Some metallic oxides.
Fire Hazards in Presence of Various Substances	Not available.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of static discharge: No.
Fire Fighting Media and Instructions	Risks of explosion of the product in presence of mechanical impact: No.
Protective Clothing (Fire)	Do not use water jet. Use flooding quantities of water. Avoid contact with organic materials.
Special Remarks on Fire Hazards	Be sure to use an approved/certified respirator or equivalent.
Special Remarks on Explosion Hazards	Not available.
	Shock sensitive when mixed with organics and powdered metals, can react explosively.

Section 6. Accidental Release Measures

Small Spill and Leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Large Spill and Leak	Stop leak if without risk. Do not get water inside container. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch 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.
Spill Kit Information	No specific spill kit required for this product.

Section 7. Handling and Storage

Handling	Store in tightly closed container. Do not get in eyes, on skin, or on clothing. Do not ingest. Do not breathe dust.
Storage	Keep container in a cool, well-ventilated area. Separate from acids, alkalies, reducing agents and combustibles.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	
Eyes	Splash goggles.
Body	Lab coat.
Respiratory	Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hands Gloves.

Feet Not applicable.

**Protective
Clothing
(Pictograms)**



Personal Protection in Case of a Large Spill Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product Name
Sodium Bromate

Exposure Limits
Not available.

Section 9. Physical and Chemical Properties

Odor	Odorless.
Color	White.
Physical State and Appearance	Solid. (Crystals solid. Crystalline granules solid.)
Molecular Weight	150.9 g/mole
Molecular Formula	NaBrO ₃
pH	Not available.
Boiling/Condensation Point	Not available.
Melting/Freezing Point	380.9°C (717.6°F)
Specific Gravity	Not available.
Vapor Pressure	Not available.
Vapor Density	Not available.
Odor Threshold	Not available.
Evaporation Rate	Not available.
LogKow	Not available.
Solubility	Soluble in water.

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Reactive with reducing agents, organic materials, metals, acids.
Rem/Incompatibility	Not available.
Hazardous Decomposition Products	Br , Na ₂ O

**Hazardous
Polymerization**

Will not occur.

Section 11. Toxicological Information

	Sodium Bromate, GR	EF8750000
RTECS Number:		
Toxicity	LD50: Not available. LC50: Not available.	
Chronic Effects on Humans	Not available.	
Acute Effects on Humans	Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. May be hazardous in case of inhalation (lung irritant). Hazardous in case of ingestion.	
Synergetic Products (Toxicologically)	Not available.	
Irritancy	Draize Test: Not available.	
Sensitization	Not available.	
Carcinogenic Effects	This material is not known to cause cancer in animals or humans.	
Toxicity to Reproductive System	Not available.	
Teratogenic Effects	Not available.	
Mutagenic Effects	Not available.	

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.

Section 13. Disposal Considerations

EPA Waste Number	D001
Treatment	Material does not have an EPA Waste Number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

Section 14. Transport Information

DOT Classification	Proper Shipping Name: SODIUM BROMATE Hazard Class: 5.1 UN number: UN1494 Packing Group: II RQ: Not applicable.
TDG Classification	Not available.
IMO/IMDG Classification	Proper Shipping Name: SODIUM BROMATE Hazard Class: 5.1 UN number: UN1494 Packing Group: II RQ: Not applicable.
ICAO/IATA Classification	Not available.

+Section 15. Regulatory Information

U.S. Federal Regulations

TSCA 8(b) inventory: SODIUM BROMATE

SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: Sodium Bromate
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium Bromate: Fire Hazard, Immediate (Acute) Health Hazard
SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada)

CLASS C: Oxidizing material.

WHMIS Class D-2B: Material causing other toxic effects (TOXIC).

CEPA DSL: SODIUM BROMATE

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.

International Regulations

EINECS

SODIUM BROMATE 232-160-4

DSCL (EEC)

R37/38- Irritating to respiratory system and skin.

R41- Risk of serious damage to eyes.

International Lists

Australia (NICNAS): SODIUM BROMATE

Japan (MITI): SODIUM BROMATE

Korea (TCCL): SODIUM BROMATE

Philippines (RA6969): SODIUM BROMATE

China: No products were found.

Section 16. Other Information

National
Fire
Protection
Association
(U.S.A.)

0
11
Health
OXY

Fire
Hazard
Reactivity
Specific
Hazard

Changed Since Last
Revision

+

Notice to Reader

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