



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 Inorganic salt.

Family

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

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

Aggravated by

Overexposure:

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

Not available.

Reproductive

System

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.

State Regulations

New Jersey: SODIUM BROMATE
California prop. 65: No products were found.

Section 16. Other Information

National	0	Fire
Fire	11	Hazard
Protection	Health	Reactivity
Association	OXY	Specific
(U.S.A.)		Hazard

Changed Since Last +
Revision

Notice to Reader

The statements contained herein are based upon technical data that EMD Chemicals Inc. believes to be reliable, are offered for information purposes only and as a guide to the appropriate precautionary and emergency handling of the material by a properly trained person having the necessary technical skills. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use, storage and disposal of these materials and the safety and health of employees and customers and the protection of the environment. EMD CHEMICALS INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO THE INFORMATION HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS.
