

WINDIA CHEMICALS PRIVATE LIMITED

130/1-9, Thinnanur Road, Pulivalam Post,
Musiri Tk, Trichy Dist Pin:621006.

SAFETY DATA SHEET

SODIUM BROMATE (NaBrO_3)

1. Product Identification


Synonyms	: Bromic acid, Sodium salt
CAS No.	: 7789-38-0
Molecular Weight	: 150.89
Molecular Formula	: NaBrO_3
Company Identification	: Windia Chemicals P. Ltd, : 41, 3 rd Street, V.G.P Layout, Injambakkam, Chennai-600115. info@windiachemical.com

2. Hazards Identification

Emergency Overview

OSHA Hazards:	: Oxidizer, Toxic by inhalation and ingestion, Carcinogen
Target Organs:	: Kidney, spleen.
GHS Classification	: Oxidizing solids (Category 2), H272 : Acute toxicity, Oral (Category 4), H302 : Skin irritation (Category 2), H315 : Eye irritation (Category 2), H319 : Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

GHS Label elements, including precautionary statements

Pictograms	
Signal Word	: Danger

Hazard statement(s)

H272	: May intensify fire; oxidizer.
H302	: Harmful if swallowed.
H315	: Causes skin irritation.

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H319	: Causes serious eye irritation
H335	: May cause respiratory irritation.
Precautionary statement(s)	
P220	: Keep/Store away from clothing/ combustible materials.
P261	: Avoid breathing dust
P305 + P351 + P338	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Hazardous Materials Identification System (HMIS) Classification	
	Not Available
National Fire Protection Association (NFPA) Rating	
Health Rating	: 2 – Moderate (Cancer)
Flammability Rating	: 0 - None
Reactivity Rating	: 0 - None
Special Hazard	: Oxidizer
Potential Health Effects	
Inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Skin	: May be harmful if absorbed through skin. May cause skin irritation.
Eyes	: May cause eye irritation.
Ingestion	: May cause digestive tract irritation

3.Composition/Information on Ingredients.

Ingredients	CAS No	Percent	Hazardous
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Sodium Bromate	7789-38-0	99-100%	Yes

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4. First Aid Measures

Eyes	: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. : Get medical aid.
Skin	: Get medical aid. : Immediately flush skin with plenty of water for at least 15 minutes while removing. : Contaminated clothing and shoes.
Ingestion	: Get medical aid immediately. : DO NOT induce vomiting. : If conscious and alert, rinse mouth and drink 2-4 cupful of milk or water.
Inhalation	: Remove from exposure and move to fresh air immediately. : If not breathing, give artificial respiration. : If breathing is difficult, give medical aid oxygen.
Notes to Physician	: Treat symptomatically and supportively.

5. Fire Fighting Measures

General Information	: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH Strong (approved or equivalent), and full protective gear. : Use oxidizer. : Contact with other material may cause fire. : Water spray to keep fire-exposed containers cool.
Extinguishing Media	: Use water spray, dry chemical, carbon dioxide, or chemical foam.
Flash Point	: Not applicable.
Autoignition Temperature	: Not applicable.
Explosion Limits-Lower	: Not applicable.
Explosion Limits-Upper	: Not applicable.

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6. Accidental Release Measures

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observe precautions in the Protective Equipment section. Avoid generating dusty conditions

7. Handling and Storage

Handling	<ul style="list-style-type: none">: Remove contaminated clothing and wash before reuse.: Use with adequate ventilation.: Minimize dust generation and accumulation.: Use spark-proof tools and explosion proof equipment.: Avoid contact with eyes, skin, and clothing.: Avoid ingestion and inhalation.
Storage	<ul style="list-style-type: none">: Keep away from heat, sparks, and flame.: Do not store near combustible materials.: Store in a cool, dry place.: Store in a tightly closed container.

8. Exposure Controls, Personal Protection

Engineering Controls	<ul style="list-style-type: none">: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety.: Use adequate ventilation to keep airborne shower concentrations low.
OSHA Vacated PELs	<ul style="list-style-type: none">: Sodium bromate: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment:

Eyes	<ul style="list-style-type: none">: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin	<ul style="list-style-type: none">: Wear appropriate protective gloves and clothing to prevent skin exposure.
Respirators	<ul style="list-style-type: none">: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.: Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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9. Physical and Chemical Properties.

Appearance	: Crystal
pH	: Neutral
Odour	: Odourless.
Boiling Point	: 1390°C
Melting Point	: 381°C
Solubility	: 48.8 g/100ml water @ 40°C
Upper or lower flammability limits	: No information available
Vapor threshold	: No information available
Odour threshold	: No information available
Vapor density	: No information available
Flash point	: No information available
Evaporation Rate	: No information available
Flammability	: No information available
Partition Coefficient: n-Octanol/water	: No information available
Auto Ignition Temperature	: No information available
Decomposition Temperature	: No information available
Viscosity	: No information available.

10. Stability and Reactivity

Chemical Stability	: Stable under normal temperatures and pressures.
Conditions to Avoid	: Incompatible materials, dust generation, excess heat, combustible materials.
Incompatibilities with Other Materials	: Strong reducing agents, finely powdered metals, organic materials, strong acids, alcohols.
Hazardous Decomposition Products	: Hydrogen bromide.
Hazardous Polymerization	: Will not occur

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11. Toxicological Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium Bromate	400 mg/Kg (Rat)	Not listed	Not listed

CAS#	: 7789-38-0
Carcinogenicity	: No information available.
Epidemiology	: No information available.
Teratogenicity	: No information available.
Reproductive Effects	: Adverse reproductive effects have occurred
Neurotoxicity	: Mutagenic effects have occurred in experimental animals
Mutagenicity	: No information available.
Aspiration Hazard	: No information available.
Specific Target Organ Toxicity-single	: Respiratory System.
Specific Target Organ Toxicity-Repeat	: No information available.

Potential Health Effects

Eye	: Causes eye irritation
Skin	: Causes skin irritation. May be harmful if absorbed through the skin.
Ingestion	: May cause irritation of the digestive tract. : Exposure may cause anemia and other blood abnormalities. : May be harmful if swallowed. May cause nausea, vomiting, and drowsiness.
Inhalation	: May cause respiratory tract irritation. May be harmful if inhaled. : May cause respiratory difficulty and coughing.
Chronic	: Prolonged exposure may cause anemia and methemoglobinemia, characterized by dizziness, drowsiness, headache, breath shortness, cyanosis (bluish skin due to deficient oxygenation of the blood), rapid heart rate and chocolate-brown colored blood. : Chronic exposure may cause anemia, kidney failure and methemoglobinemia.

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12. Ecological Information

Ecotoxicity	: No information available.
Environmental	: No information available.
Physical	: No information available.
Other	: Do not empty into drains.

13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series : None listed.
RCRA U-Series : None listed.

14. Transport Information

Domestic (RID/ADR.)	
Proper Shipping Name	: SODIUM BROMATE
Hazard Class	: 5.1
UN/NA	: UN1494
Packing Group	: II

International (Water, I.M.D.G.)	
Proper Shipping Name	: SODIUM BROMATE
Hazard Class	: 5.1
UN/NA	: UN1494
Packing Group	: II

International (Air, I.A.T.A.)	
Proper Shipping Name	: SODIUM BROMATE
Hazard Class	: 5.1
UN/NA	: UN1494
Packing Group	: II

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15. Regulatory Information

US FEDERAL

TSCA

CAS# 7789-38-0 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 7789-38-0: immediate, fire.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 7789-38-0 can be found on the following state right to know lists: New Jersey.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

XI O

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Risk Phrases:

R 36/38 Irritating to eyes and skin.
R 9 Explosive when mixed with combustible material.

Safety Phrases:

S 17 Keep away from combustible material.
S 26 In case of contact with eyes, rinse immediately with
plenty of water and seek medical advice.
S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 7789-38-0: No information available

Canada - DSL/NDSL

CAS# 7789-38-0 is listed on Canada's DSL List

Canada - WHMIS

This product has a WHMIS classification of C, D2B.
This product has been classified in accordance with the hazard criteria of the Controlled
Products Regulations and the MSDS contains all of the information required by those
regulations.

Canadian Ingredient Disclosure List

CAS# 7789-38-0 is listed on the Canadian Ingredient Disclosure List.

16. Other Information

Version no : WCPL-NaBrO₃-SDS-001
Date of creation : 15-Nov-2019
E-mail ID : info@windiachemicals.com

Disclaimer:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Windia chemicals be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Windia chemicals has been advised of the possibility of such damages.



Approved by QC Manager
Govindaraj 26/02/2022