

Sodium bromate**02151-25KG**

Version 1.1

Revision Date 12/09/2021

Print Date 05/29/2023

SECTION 1. IDENTIFICATION

Product name : Sodium bromate

Number : 000000020919

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell Specialty Chemicals Seelze GmbH
Wunstorfer Straße 40
Seelze, 30926

For more information call : 1-800-368-0050
+1-231-726-3171(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : Crystalline powder

Color : colourless

Odor : odourless

Classification of the substance or mixture

Classification of the substance or mixture : Oxidizing solids, Category 2
Acute toxicity, Category 4, Oral
Skin irritation, Category 2
Eye irritation, Category 2A
Germ cell mutagenicity, Category 2
Carcinogenicity, Category 1B

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Specific target organ toxicity - single exposure, Category 3,
Respiratory system

GHS Label elements, including precautionary statements

Symbol(s)

:



Signal word

: Danger

Hazard statements

: May intensify fire; oxidizer.
Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
Suspected of causing genetic defects.
May cause cancer.

Precautionary statements

: **Prevention:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat.
Keep/ Store away from clothing/ combustible materials.
Take any precaution to avoid mixing with combustibles.
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/ attention.

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If skin irritation occurs: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : BrNaO3

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Sodium bromate	7789-38-0	100.00 %

SECTION 4. FIRST AID MEASURES

General advice : Show this safety data sheet to the doctor in attendance. First aider needs to protect himself. Move out of dangerous area.

Inhalation : If inhaled, remove to fresh air. Call a physician.

Skin contact : Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

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Eye contact : Protect unharmed eye. Rinse thoroughly with plenty of water, also under the eyelids. Consult a physician.

Ingestion : A person suspected to have swallowed the substance who is conscious should be given water to drink. Take to a doctor immediately together with this card

Notes to physician

Most important symptoms/effects, acute and delayed : No information available.

Indication of immediate medical attention and special treatment needed, if necessary : Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray
Carbon dioxide (CO2)
Foam
Dry powder

Specific hazards during firefighting : May intensify fire; oxidizer.
The product itself does not burn.
Fire may cause evolution of:
Bromine compounds
Oxygen

Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
No unprotected exposed skin areas.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and : Evacuate personnel to safe areas.
Wear personal protective equipment. Unprotected persons

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|---|---|---|
| emergency procedures | : | must be kept away.
Ensure adequate ventilation.
Avoid dust formation.
Do not breathe dust.
Do not get in eyes, on skin, or on clothing. |
| Environmental precautions | : | Prevent further leakage or spillage if safe to do so.
Do not flush into surface water or sanitary sewer system. |
| Methods and materials for containment and cleaning up | : | Use mechanical handling equipment.
Do not pick up with the help of saw-dust or other combustible substances.
Sweep up and shovel into suitable containers for disposal.
Dispose of in accordance with local regulations. |

SECTION 7. HANDLING AND STORAGE**Handling**

- | | | |
|---|---|---|
| Precautions for safe handling | : | Wear personal protective equipment.
Avoid exposure - obtain special instructions before use.
Use product only in closed system.
Protect from contamination.
Never return unused material to storage receptacle.
Do not breathe dust.
Do not get in eyes, on skin, or on clothing. |
| Advice on protection against fire and explosion | : | Keep away from combustible material. |

Storage

- | | | |
|--|---|--|
| Conditions for safe storage, including any incompatibilities | : | Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.
The product is hygroscopic.
Protect from physical damage.
Store locked up. |
| Advice on common storage | : | Do not store together with:
Flammable liquids
Flammable solids
Do not store with combustible materials. |

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Keep away from reducing agents.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- | | | |
|--------------------------|---|--|
| Protective measures | : | Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Avoid exposure - obtain special instructions before use.
Do not breathe dust.
Do not get in eyes, on skin, or on clothing. |
| Engineering measures | : | Use product only in closed system.
Use with local exhaust ventilation. |
| Eye protection | : | Safety goggles |
| Hand protection | : | Wear nitrile rubber gloves to avoid contact with the skin.
Gloves must be inspected prior to use.
Replace when worn. |
| Skin and body protection | : | Wear suitable protective equipment.
Protective suit
Lab coat |
| Respiratory protection | : | In case of insufficient ventilation, wear suitable respiratory equipment. |
| Hygiene measures | : | Usual hygienic precautions must be taken when working with dangerous cancer causing substances.
Take off all contaminated clothing immediately.
Separate rooms are required for washing, showering and changing clothes.
Keep working clothes separately.
Contaminated work clothing should not be allowed out of the workplace. |

Exposure Guidelines

Contains no substances with occupational exposure limit values.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Crystalline powder
Color	: colourless
Odor	: odourless
Odor threshold	: Note: No data available
pH	: Note: No data available
Melting point/range	: 381 °C Note: Decomposition
Boiling point/boiling range	: Note: Not applicable, Decomposes on heating.
Flash point	: Note: Not applicable
Evaporation rate	: Note: No data available
Flammability	: The product is not flammable.
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapor pressure	: Note: negligible
Vapor density	: Note: No data available
Density	: 3.339 g/cm ³ at 17.5 °C

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Water solubility : 364 g/l at 20 °C

488 g/l at 40 °C

758 g/l at 80 °C

Partition coefficient:
n-octanol/water : Note: No data available

Ignition temperature : Note: Not applicable

Auto-ignition temperature : Note: not auto-flammable

Decomposition temperature : ≥ 381 °C
Note: Decomposition temperature

Viscosity, dynamic : Note: Not applicable

Viscosity, kinematic : Note: Not applicable

Oxidizing properties : The substance or mixture is classified as oxidizing with the category 2.

Molecular weight : 150.89 g/mol

Bulk density : Note: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : May intensify fire; oxidizer.

Chemical stability : No decomposition if stored and applied as directed.
Stable under normal conditions.

Possibility of hazardous : May intensify fire; oxidizer.

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reactions

Conditions to avoid

: Protect from atmospheric moisture and water.
Protect from heat/overheating.
Keep away from combustible material.
Protect from contamination.

Incompatible materials

: Combustible material
Powdered metals
Organic materials
As oxidising agent, attacks organic substances such as wood, paper, fats.
Ammonium salts

Hazardous decomposition products

: In case of fire hazardous decomposition products may be produced such as:
Bromine compounds
Oxygen

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

: Note: Conclusive and supporting classification (Ref: REACH Dossier - ECHA disseminated data)

Acute inhalation toxicity

: Note: Not classified due to data which are conclusive although insufficient for classification.

Acute dermal toxicity

: Note: Not classified due to data which are conclusive although insufficient for classification.

Skin irritation

: Note: Conclusive and supporting classification (Ref: REACH Dossier - ECHA disseminated data)

Eye irritation

: Note: Conclusive and supporting classification (Ref: REACH Dossier - ECHA disseminated data)

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Sensitisation : Note: No data available

Aspiration toxicity : No data available

Further information : Note: May cause cancer. Suspected of causing genetic defects.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish : Note: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to daphnia and other aquatic invertebrates : Note: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to algae : Note: Not classified due to data which are conclusive although insufficient for classification.

Further information on ecology

Additional ecological information : The methods for determining biodegradability are not applicable to inorganic substances.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Dispose according to legal requirements.

Packaging : Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

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SECTION 14. TRANSPORT INFORMATION

DOT UN/ID No. : UN 1494
Proper shipping name : SODIUM BROMATE
Class : 5.1
Packing group : II
Hazard Labels : 5.1

IATA UN/ID No. : UN 1494
Description of the goods : SODIUM BROMATE
Class : 5.1
Packaging group : II
Hazard Labels : 5.1
Packing instruction (cargo aircraft) : 562
Packing instruction (passenger aircraft) : 558
Packing instruction (passenger aircraft) : Y544

IMDG UN/ID No. : UN 1494
Description of the goods : SODIUM BROMATE
Class : 5.1
Packaging group : II
Hazard Labels : 5.1
EmS Number : F-H, S-Q
Marine pollutant : no
IMDG Code segregation group 3 – Bromates,

SECTION 15. REGULATORY INFORMATION**Inventories**

US. Toxic Substances : On TSCA Inventory
Control Act

Australia. Industrial : On the inventory, or in compliance with the inventory
Chemicals Act (AICC), as
amended

Canada. Canadian : All components of this product are on the Canadian DSL

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Environmental Protection
Act (CEPA). Domestic
Substances List (DSL)

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals : On the inventory, or in compliance with the inventory
Inventory (KECI)

Philippines. Inventory of : On the inventory, or in compliance with the inventory
Chemicals and Chemical
Substances (PICCS)

China. Inventory of Existing : On the inventory, or in compliance with the inventory
Chemical Substances
(IECSC)

New Zealand. Inventory of : On the inventory, or in compliance with the inventory
Chemicals (NZIoC), as
published by ERMA New
Zealand

National regulatory information

SARA 302 Components : No chemicals in this material are subject to the reporting
requirements of SARA Title III, Section 302.

SARA 313 Components : This material does not contain any chemical components with
known CAS numbers that exceed the threshold (De Minimis)
reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards : Reactivity Hazard
Acute Health Hazard
Chronic Health Hazard

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California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

New Jersey RTK : Sodium bromate 7789-38-0

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2*	2
Flammability	: 0	0
Physical Hazard	: 2	
Instability	:	1
Special hazard	:	OX

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 01/23/2017

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group