

Revision Date: 19.02.2020

# SAFETY DATA SHEET

# 1. Identification

Product identifier: Sodium Bromide

Other means of identification

**Product No.:** 0535, 3588

Recommended use and restriction on use

Recommended use: For Laboratory, Research or Manufacturing Use.

Restrictions on use: Not determined.

Details of the supplier of the safety data sheet

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200

Radnor, PA 19087

Telephone:

Customer Service: 855-282-6867

Fax:

Contact Person: Product Information Compliance E-mail: info@avantormaterials.com

**Emergency telephone number:** 

CHEMTREC: 1-800-424-9300 within US and Canada (24 hrs/day, 7 days/week)

## 2. Hazard identification

## **Hazard Classification**

#### **Health Hazards**

Serious Eye Damage/Eye Irritation Category 2B

## **Unknown toxicity - Health**

Acute toxicity, inhalation, dust 100 %

or mist

#### **Environmental Hazards**

Acute hazards to the aquatic Category 1

environment

## **Unknown toxicity - Environment**

Acute hazards to the aquatic 0 %

environment

Chronic hazards to the aquatic 100 %

environment

#### **Label Elements**

## **Hazard Symbol:**



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Signal Word: Warning

**Hazard Statement:** Causes eye irritation.

Very toxic to aquatic life.

Precautionary Statements

**Prevention:** Wash hands thoroughly after handling. Avoid release to the environment.

**Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If eye irritation

persists: Get medical advice/attention. Collect spillage.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

# 3. Composition/information on ingredients

#### **Substances**

Chemical name	Common name and synonyms	CAS number	Content in percent (%)*
Sodium bromide		7647-15-6	100%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet

to the doctor in attendance.

**Ingestion:** Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell.

**Inhalation:** Move to fresh air. Get medical attention if symptoms persist.

**Skin Contact:** Wash skin thoroughly with soap and water. Get medical attention if irritation

persists after washing. Wash contaminated clothing before reuse.

**Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance.

Most important symptoms/effects, acute and delayed

**Symptoms:** Irritating to eyes, respiratory system and skin.

Hazards: None known.

#### Indication of immediate medical attention and special treatment needed



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**Treat symptomatically.** Symptoms may be delayed.

## 5. Fire-fighting measures

**General Fire Hazards:** In case of fire and/or explosion do not breathe fumes.

#### Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

None known.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

# Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to

flames with water until well after the fire is out.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Keep unauthorized personnel away. Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.

Methods and material for containment and cleaning

up:

Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.

Notification Procedures: Prevent entry into waterways, sewer, basements or confined areas. Inform

authorities if large amounts are involved.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Avoid discharge into

drains, water courses or onto the ground.

## 7. Handling and storage

**Precautions for safe handling:** Use personal protective equipment as required. Avoid inhalation of dust.

Wash thoroughly after handling. Avoid contact with eyes. Avoid contact with

skin.

Conditions for safe storage,

including any incompatibilities:

Keep containers tightly closed. Store in cool, dry place. Store in a well-ventilated place.

#### 8. Exposure controls/personal protection

#### **Control Parameters**

## **Occupational Exposure Limits**

None of the components have assigned exposure limits.



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**Appropriate Engineering** 

**Controls** 

No data available.

# Individual protection measures, such as personal protective equipment

General information: Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an

acceptable level.

**Eye/face protection:** Use tight fitting goggles if dust is generated.

**Skin Protection** 

Hand Protection: Wear protective gloves.

Other: Wear suitable protective clothing.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator.

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Provide eyewash station and safety shower.

# 9. Physical and chemical properties

**Appearance** 

Physical state: Solid

Form: Crystals or powder.

Color: White Odor: Odorless

Odor threshold: No data available. pH: 5,74 (22,5 °C)

Melting point/freezing point:755 °CInitial boiling point and boiling range:1.390 °CFlash Point:Not applicableEvaporation rate:No data available.Flammability (solid, gas):No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

Vapor pressure:

Vapor density:

No data available.

No data available.

No data available.

No data available.

**Density:** 1,48 - 1,51 g/cm3 (20 °C)

**Relative density:** 1,48 - 1,51 (20 °C)

Solubility(ies)

Solubility in water: 910 g/l (20 °C)

1.160 g/l (50 °C)

**Solubility (other):** ethanol: Approximate 0,0625 g/ml

methanol: 0,17 g/ml

Partition coefficient (n-octanol/water): No data available.

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Auto-ignition temperature:No data available.Decomposition temperature:No data available.Viscosity:No data available.

Other information

Molecular weight: 102,91 g/mol (NaBr)

# 10. Stability and reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical Stability:** Material is stable under normal conditions.

Possibility of hazardous

reactions:

Hazardous polymerization does not occur.

**Conditions to avoid:** Moisture. Contact with incompatible materials.

**Incompatible Materials:** Strong oxidizing agents. Acids. Alkalies. Bromides. Inorganic salts.

**Hazardous Decomposition** 

**Products:** 

By heating and fire, toxic vapors/gases may be formed. Halogens.

# 11. Toxicological information

Information on likely routes of exposure

**Inhalation:** May be harmful if inhaled.

**Skin Contact:** May be harmful in contact with skin.

**Eye contact:** Causes eye irritation.

**Ingestion:** May cause irritation of the gastrointestinal tract.

## Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Rat): 4.200 mg/kg

Dermal

**Product:** LD 50 (Rabbit): > 2.000 mg/kg

Inhalation

**Product:** No data available.

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** May be harmful in contact with skin.

Serious Eye Damage/Eye Irritation

**Product:** Causes eye irritation.



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Respiratory or Skin Sensitization

**Product:** Not a skin nor a respiratory sensitizer.

Carcinogenicity

**Product:** This substance has no evidence of carcinogenic properties.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:** 

No carcinogenic components identified

**ACGIH Carcinogen List:** 

No carcinogenic components identified

**Germ Cell Mutagenicity** 

In vitro

**Product:** No mutagenic components identified

In vivo

**Product:** No mutagenic components identified

Reproductive toxicity

**Product:** No components toxic to reproduction

Specific Target Organ Toxicity - Single Exposure
Product:
No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product:
No data available.

**Aspiration Hazard** 

Product: Not classified

Other effects: None known.

# 12. Ecological information

# **Ecotoxicity:**

## Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

Product: No data available.

Chronic hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 



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**Product:** No data available.

## Persistence and Degradability

**Biodegradation** 

**Product:** There are no data on the degradability of this product.

**BOD/COD Ratio** 

**Product:** No data available.

#### Bioaccumulative potential

**Bioconcentration Factor (BCF)** 

**Product:** No data available on bioaccumulation.

#### Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

Mobility in soil: No data available.

Other adverse effects: None known.

## 13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local

laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and

product characteristics at time of disposal.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even

after container is emptied.

## 14. Transport information

#### **TDG**

Not regulated.

#### **IMDG**

Not regulated.

## **IATA**

Not regulated.

Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

# 15. Regulatory information

#### **Canada Federal Regulations**

List of Toxic Substances (CEPA, Schedule 1)

Not Regulated

# Export Control List (CEPA 1999, Schedule 3)

Not Regulated

#### **National Pollutant Release Inventory (NPRI)**

Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements

NPRI PT5 Not Regulated



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# Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)

NPRI Not Regulated

#### **Greenhouse Gases**

Not Regulated

## **Controlled Drugs and Substances Act**

CA CDSI Not Regulated

CA CDSII Not Regulated

CA CDSIII Not Regulated

CA CDSIV Not Regulated

CA CDSV Not Regulated

CA CDSVII Not Regulated

CA CDSVIII Not Regulated

# **Precursor Control Regulations**

Not Regulated

#### International regulations

#### Montreal protocol

Not applicable

## Stockholm convention

Not applicable

#### **Rotterdam convention**

Not applicable

# **Kyoto protocol**

Not applicable

# **Inventory Status:**

Australia AICS: On or in compliance with the inventory Canada DSL Inventory List: On or in compliance with the inventory China Inv. Existing Chemical Substances: On or in compliance with the inventory Japan (ENCS) List: On or in compliance with the inventory Japan ISHL Listing: On or in compliance with the inventory Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory On or in compliance with the inventory Mexico INSQ: On or in compliance with the inventory New Zealand Inventory of Chemicals: On or in compliance with the inventory Philippines PICCS: Taiwan Chemical Substance Inventory: On or in compliance with the inventory US TSCA Inventory: On or in compliance with the inventory EINECS, ELINCS or NLP: On or in compliance with the inventory

## 16. Other information

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Source of information:

Sources of information used in preparing this SDS included one or more of the following: results from in house or supplier toxicology studies, information from the Toxicology Data Network (TOXNET), European Chemical Agency (ECHA) substance dossiers, IARC Monographs, US National Toxicology Program data, the Agency for Toxic Substances and Disease Registry, other manufacturer's SDSs and other sources, as appropriate.

Further Information:

No data available.

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