

Revision Date: 15.04.2019

SAFETY DATA SHEET

1. Identification

Product identifier: Potassium bromide

Other means of identification

Product No.: 0505, 2997, 2998, 2961

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

2. Hazard identification

Hazard Classification

Health Hazards

Serious Eye Damage/Eye Irritation Category 2A Specific Target Organ Toxicity - Category 3¹.

Single Exposure

Target Organs

1.Respiratory tract irritation.

Unknown toxicity - Health

Acute toxicity, inhalation, dust 100 %

or mist

Environmental Hazards

Acute hazards to the aquatic Category 3

environment

Unknown toxicity - Environment

Acute hazards to the aquatic 0 %

environment

Chronic hazards to the aquatic 100 %

environment



Revision Date: 15.04.2019

Label Elements

Hazard Symbol:



Signal Word: Warning

Hazard Statement: May cause respiratory irritation.

May cause drowsiness or dizziness.

Harmful to aquatic life.

Precautionary Statements

Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a

well-ventilated area. Avoid release to the environment.

Response: IF INHALED: Remove person to fresh air and keep comfortable for

breathing. Call a POISON CENTER/doctor if you feel unwell.

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

closed.

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 (%)* |
|-------------------|--------------------------|------------|-------------------------|
| Potassium bromide | | 7758-02-3 | 99 - 100% |

^{*} 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.



Revision Date: 15.04.2019

Most important symptoms/effects, acute and delayed

Symptoms: May cause irritation to skin, eyes and respiratory tract.

Hazards: None known.

Indication of immediate medical attention and special treatment needed

Treat symptomatically. Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

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. Keep upwind. Ventilate closed spaces before entering them. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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 contact with eyes,

skin, and clothing. Avoid inhalation of dust. Do not taste or swallow. Wash

thoroughly after handling.



Revision Date: 15.04.2019

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.

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.

1.435 °C

9. Physical and chemical properties

Initial boiling point and boiling range:

Appearance

Physical state: Solid

Form: Granules or powder

Color: White
Odor: Odorless

Odor threshold:No data available.pH:No data available.Melting point/freezing point:730 - 734 °C

Flash Point:

Evaporation rate:

Flammability (solid, gas):

No data available.

No data available.

No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

No data available.

No data available.

No data available.

Vapor pressure: Estimated < 0,01 kPa (25 °C)



Revision Date: 15.04.2019

Vapor density:No data available.Density:2,75 g/ml (25 °C)Relative density:2,75 (25 °C)

Solubility(ies)

Solubility in water: 0,678 g/ml (25 °C)
Solubility (other): glycerol: 217 g/l (25 °C)
ethanol: 47,6 g/l (80 °C)

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

No data available.

No data available.

No data available.

Viscosity:

No data available.

Other information

Molecular weight: 119,01 g/mol (BrK)

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: Contact with incompatible materials. Excessive heat.

Incompatible Materials: Strong oxidizing agents. Acids.

Hazardous Decomposition

Products:

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

11. Toxicological information

Information on likely routes of exposure

Inhalation: May cause irritation to the respiratory system.

Skin Contact: May cause irritation.

Eye contact: May cause temporary eye irritation.

Ingestion: May be harmful if swallowed.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Rat): 4,2 g/kg

Dermal

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

Inhalation

Product: No data available.



Revision Date: 15.04.2019

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: May cause skin irritation.

Serious Eye Damage/Eye Irritation

Product: May irritate eyes.

Respiratory or Skin Sensitization

Product: Not a skin 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: Narcotic effect. Respiratory tract irritation.

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.

Specified substance(s):

Potassium bromide LC 50 (Fathead minnow (Pimephales promelas), 96 h): 16,48 g/l

SDS_CA - SDS000001040



Revision Date: 15.04.2019

LC 50 (Oryzias latipes, 96 h): 30,9 g/l NOAEL (Oryzias latipes, 96 h): 0,32 g/l LC 50 (Poecilia reticulata, 96 h): 20,6 g/l NOAEL (Oncorhynchus mykiss, 96 h): 0,32 g/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Potassium bromide NOAEL (Daphnia magna, 48 h): 5,2 g/l

LOAEL (Daphnia magna, 48 h): 8,20 g/l EC 50 (Daphnia magna, 48 h): 6,7 - 14,10 g/l

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Potassium bromide NOAEL (Poecilia reticulata, 3 Months): 10 mg/l

LOAEL (Poecilia reticulata, 28 d): 0,1 g/l NOAEL (Poecilia reticulata, 28 d): 0,032 g/l LOAEL (Poecilia reticulata, 3 Months): 32 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Potassium bromide EC 50 (Daphnia magna, 21 d): 20,8 mg/l

NOAEL (Daphnia magna, 21 d): 3 - 19 mg/l LOAEL (Daphnia magna, 21 d): 3 - 32 mg/l

Toxicity to Aquatic Plants

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: Harmful to aquatic organisms.

13. Disposal considerations

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

laws.



Revision Date: 15.04.2019

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

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



Revision Date: 15.04.2019

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

Inventory Status:

Australia AICS:
Canada DSL Inventory List:
EINECS, ELINCS or NLP:
Japan (ENCS) List:
China Inv. Existing Chemical Substances:

Korea Existing Chemicals Inv. (KECI): Philippines PICCS: US TSCA Inventory:

New Zealand Inventory of Chemicals:

Japan ISHL Listing: Mexico INSQ:

Taiwan Chemical Substance Inventory:

On or in compliance with the inventory On or in compliance with the inventory

16. Other information

Revision Date: 15.04.2019

Version #: 1.2

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.

Disclaimer: The information provided in this Safety Data Sheet (SDS) was prepared

based on data believed to be accurate as of the date of this SDS. TO THE GREATEST EXTENT PERMITTED BY LAW, AVANTOR PERFORMANCE

MATERIALS ("AVANTOR") EXPRESSLY DISCLAIMS ANY AND ALL REPRESENTATIONS AND WARRANTIES REGARDING THE INFORMATION CONTAINED HEREIN INCLUDING, WITHOUT LIMITATION, AS TO ACCURACY, COMPLETENESS, FITNESS FOR PURPOSE OR USE, MERCHANTABILITY, NON-INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY AND STABILITY. This SDS is

intended to be comprehensive. Users of Avantor's products are advised to perform their own tests and to exercise their own judgment to determine the safety, suitability and appropriate use, handling, storage and disposal of each product and product combination for their own purposes and uses. TO THE GREATEST EXTENT PERMITTED BY LAW, AVANTOR DISCLAIMS LIABILITY FOR, AND BY USING AVANTOR'S PRODUCTS PURCHASER AGREES THAT UNDER NO CIRCUMSTANCES SHALL AVANTOR BE LIABLE FOR, SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY TYPE OR KIND, INCLUDING WITHOUT LIMITATION, FOR LOSS OF PROFITS, REPUTATIONAL

DAMAGE, PRODUCT RECALL OR BUSINESS INTERRUPTION.

intended as a guide to the appropriate use, handling, storage and disposal of the product to which it relates by properly trained personnel, and is not



Revision Date: 15.04.2019