



## Safety Data Sheet

---

### 1. Identification of the substance/mixture and of the company/undertaking

#### Product identifier:

Product name: Potassium bromide

Product code(SDS NO): 6338E-1

#### Details of the supplier of the safety data sheet

Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD.

Address: 3-1, Honmachibashi, Chuo-ku, Osaka 540-0029, JAPAN

Division: Safety Management Dept. of Chemicals

Telephone number: +81-6-6946-8061

FAX: +81-6-6946-1607

e-mail address: kagakuhinanzenkanri@kishida.co.jp

---

### 2. Hazards identification

#### GHS classification and label elements of the product

#### Classification of the substance or mixture

(Note) GHS classification without description: Not applicable/Out of classification/Not classifiable

---

### 3. Composition/information on ingredients

#### Mixture/Substance selection:

##### Substance

Ingredient name: Potassium bromide

Content(%): 99(min)

Chemical formula: BrK

Chemicals No, Japan: 1-108

CAS No.: 7758-02-3

MW: 119.00

ECNO: 231-830-3

Note : The figures shown above are not the specifications of the product.

---

### 4. First-aid measures

#### Descriptions of first-aid measures

##### IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

##### IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

##### 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.

##### IF SWALLOWED

Rinse mouth.

Call a POISON CENTER or doctor/physician if you feel unwell.



---

## 5. Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

### Specific hazards arising from the substance or mixture

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

### Advice for firefighters

#### Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

#### Special protective equipment and precautions for fire-fighters

Wear fire/flame resistant/retardant clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Firefighters should wear self-contained breathing apparatus with full face piece operated positive pressure mode.

---

## 6. Accidental release measures

### Personnel precautions, protective equipment and emergency procedures

Ventilate area after material pick up is complete.

Wear proper protective equipment.

### Methods and materials for containment and cleaning up

Sweep up, place in a bag and hold for waste disposal.

### Preventive measures for secondary accident

Collect spillage.

---

## 7. Handling and storage

### Precautions for safe handling

#### Preventive measures

(Protective measures against fire & explosion)

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

#### Exhaust/ventilator

Exhaust/ventilator should be available.

#### Safety treatments

Avoid contact with skin.

Avoid contact with eyes.

#### Safety Measures/Incompatibility

Wear protective gloves, protective clothing or face protection.

When using do not eat, drink or smoke.

### Conditions for safe storage, including any incompatibilities

#### Recommendation for storage

Keep container tightly closed.

Store in a cool, dry place. Do not store in direct sunlight.

---

## 8. Exposure controls/personal protection



---

## 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical properties

Appearance: Crystal or crystalline powder

Color: White

Odor: Odorless

pH: 5.0~8.0(50g/L, 25°C)

Phase change temperature

Initial Boiling Point/Boiling point: 1435°C

Melting point/Freezing point: 730°C

Decomposition temperature data N.A.

Flash point data N.A.

Auto-ignition temperature: Incombustibility

Explosive properties data N.A.

Vapor pressure: 133Pa(1mmHg, 795°C)

Vapor density data N.A.

Specific gravity/Density: 2.74

Solubility

Solubility in water: Soluble

n-Octanol /water partition coefficient data N.A.

---

## 10. Stability and Reactivity

Chemical stability

Hygroscopic (absorbs moisture from the air).

Conditions to avoid

Contact with incompatible materials.

Contact with fire source.

Incompatible materials

Strong acids, Strong oxidizing agents

Hazardous decomposition products

Hydrogen bromide, Bromine

---

## 11. Toxicological Information

Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[Company proprietary data]

(Potassium bromide)

rat LD50=3070 mg/kg

mouse LD50=3120 mg/kg

No Irritant properties data available

No Allergenic and sensitizing effects data available

No Mutagenic effects data available

No Carcinogenic effects data available

No Teratogenic effects data available

No reproductive toxicity data available

No STOT-single/repeated exposure data available

No Aspiration hazard data available

Additional data

May cause lung disorders by massive inhalation of powdered substance.

-e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung



function, interstitial lung disease, pneumothorax

---

## 12. Ecological Information

### Toxicity

#### Aquatic toxicity

##### Aquatic acute toxicity component(s) data

[Company proprietary data]

(Potassium bromide)

fish (Pimephales promelas) LC50 > 30000  $\mu$ g/L/96h

Crustacea (Daphnia magna) EC50 > 30000  $\mu$ g/L/96h

No Persistence and degradability data available

No Bioaccumulative potential data available

No Mobility in soil data available

Ozone depleting chemical data not available

---

## 13. Disposal considerations

### Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

---

## 14. Transport Information

Not applicable to UN NO.

---

## 15. Regulatory Information

### Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

---

## 16. Other information

The product is not applicable to GHS classifications.

### Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN

Classification, labelling and packaging of substances and mixtures (table 3-1 ECNO6182012)

2012 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2017 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/ENG/Classification/index.php>

Supplier's data/information

### General Disclaimer

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It is advised to make their own tests to determine the safety and suitability of each such product or combination for their own purposes.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2015).