

Trade name: Kalii bromidum

Substance number: 064440

Version: 3 / CH

Date revised: 17.12.2018

Replaces Version: 2 / CH

Print date: 01.10.19

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Kalii bromidum

Item No. 06444000

Substance / product identification

CAS-No. 7758-02-3

EINECS-No. 231-830-3

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Eye Irrit. 2 H319

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P264.1 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

Trade name: Kalii bromidum

Substance number: 064440

Version: 3 / CH

Date revised: 17.12.2018

Replaces Version: 2 / CH

Print date: 01.10.19

SECTION 3: Composition/information on ingredients

Molecular weight

| | | |
|-------|--------|-------|
| Value | 119.00 | g/mol |
|-------|--------|-------|

Hazardous ingredients

Potassium Bromide

| | | | |
|--|------------------|------|---|
| CAS No. | 7758-02-3 | | |
| EINECS no. | 231-830-3 | | |
| Registration no. | 01-2119962195-33 | | |
| Concentration | >= 50 | | % |
| Classification (Regulation (EC) No. 1272/2008) | Eye Irrit. 2 | H319 | |

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash skin thoroughly with water (15 min.). Remove contaminated, soaked clothing immediately and dispose of safely.

After eye contact

Remove contact lenses. In case of contact with the eyes rinse thoroughly with plenty of water or with an eye-cleaning solution. By continuous complaints consult a physician.

After ingestion

Let plenty of water be drunk in small gulps. Never give anything by mouth to an unconscious person. Do not induce vomiting. Take medical treatment.

4.2. Most important symptoms and effects, both acute and delayed

Convulsions, Irritating to respiratory system. Coughing, Shortness of breath, Tiredness

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing measures to suit surroundings

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

The product is not combustible. If a fire breaks out nearby evolution of dangerous gases possible. In the event of fire the following can be released: Hydrogen bromide (HBr)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Suppress vapours with water spray jet. Do not discharge into surface waters/groundwater.

SECTION 6: Accidental release measures

Trade name: Kalii bromidum

Substance number: 064440

Version: 3 / CH

Date revised: 17.12.2018

Replaces Version: 2 / CH

Print date: 01.10.19

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Do not inhale dust. Ensure adequate ventilation.

6.2. Environmental precautions

Do not empty into drains.

6.3. Methods and material for containment and cleaning up

To pick up dry. Dampen, pick up mechanically and dispose of. Clean up affected area.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Avoid dust formation. Do not inhale dust.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep tightly closed in a dry and cool place. Storage rooms must be properly ventilated.

Storage classes

| | | |
|-------------------------------------|-------|--|
| Storage class according to TRGS 510 | 13 | Non- combustible solids |
| Storage category (Switzerland) | 11/13 | Other solid hazardous substances with hazardous classification/labelling |

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Derived No/Minimal Effect Levels (DNEL/DMEL)****Potassium Bromide**

| | | |
|----------------------|--------------------------------|---------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 95 | mg/kg/d |
| Source | Literature value | |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Worker | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 4.75 | mg/m ³ |
| Source | Literature value | |

| | | |
|----------------------|--------------------------------|---------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | oral | |
| Mode of action | Chronic effects | |
| Concentration | 0.475 | mg/kg/d |
| Source | Literature value | |

| | | |
|-----------------|--------------------------------|--|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |

Trade name: Kalii bromidum

Substance number: 064440

Version: 3 / CH

Date revised: 17.12.2018

Replaces Version: 2 / CH

Print date: 01.10.19

| | | |
|----------------------|------------------|---------|
| Duration of exposure | Long term | |
| Route of exposure | dermal | |
| Mode of action | Systemic effects | |
| Concentration | 95 | mg/kg/d |
| Source | Literature value | |

| | | |
|----------------------|--------------------------------|-------------------|
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 1.66 | mg/m ³ |
| Source | Literature value | |

Predicted No Effect Concentration (PNEC)

Potassium Bromide

| | | |
|---------------|------------------|-------|
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 3.2 | mg/kg |
| Source | Literature value | |

| | | |
|---------------|------------------------------|------|
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 100 | mg/l |
| Source | Literature value | |

| | | |
|---------------|------------------|------|
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 41 | mg/l |
| Source | Literature value | |

| | | |
|---------------|------------------|------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0.52 | mg/l |
| Source | Literature value | |

8.2. Exposure controls

General protective and hygiene measures

Wash contaminated clothing before reuse. Wash hands before breaks and after work.

Respiratory protection

Breathing apparatus in the event of aerosol. Particle filter P1

Hand protection

| | |
|----------------------|----------------------|
| Gloves | |
| Appropriate Material | nitrile rubber - NBR |
| Material thickness | 0.4 mm |
| Breakthrough time | > 480 min |

Eye protection

Tightly fitting safety glasses

Body protection

Protective clothing

SECTION 9: Physical and chemical properties

Trade name: Kalii bromidum

Substance number: 064440

Version: 3 / CH

Date revised: 17.12.2018

Replaces Version: 2 / CH

Print date: 01.10.19

9.1. Information on basic physical and chemical properties

| | | | | |
|--|----------------|-----|-----|-------------------|
| Form | crystals | | | |
| Colour | white | | | |
| Odour | odourless | | | |
| pH value | | | | |
| Value | 5.5 | to | 8.5 | |
| Concentration/H ₂ O | 50 | g/l | | |
| Temperature | 20 | °C | | |
| Melting point | | | | |
| Value | 730 | | | °C |
| Initial boiling point and boiling range | | | | |
| Value | 1380 | | | °C |
| Flash point | | | | |
| Value | | | | °C |
| Remarks | Not applicable | | | |
| Vapour pressure | | | | |
| Value | 1.3 | | | hPa |
| Temperature | 795 | °C | | |
| Density | | | | |
| Value | 2.75 | | | g/cm ³ |
| Temperature | 20 | °C | | |
| Solubility in water | | | | |
| Value | 650 | | | g/l |
| Temperature | 20 | °C | | |
| Decomposition temperature | | | | |
| Value | > 750 | | | °C |

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Possible incompatibility with materials listed under section 10.5.

10.4. Conditions to avoid

Heat. Protect from atmospheric moisture and water.

10.5. Incompatible materials

Acids, Oxidising agents, halocarbons

10.6. Hazardous decomposition products

In the event of fire the following can be released: Hydrogen bromide

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity (Components)

Potassium Bromide

Trade name: Kalii bromidum

Substance number: 064440

Version: 3 / CH

Date revised: 17.12.2018

Replaces Version: 2 / CH

Print date: 01.10.19

| | | |
|---------|------------------|-------|
| Species | rat | |
| LD50 | > 2000 | mg/kg |
| Source | Literature value | |

Skin corrosion/irritation (Components)**Potassium Bromide**

| | |
|------------|--------------|
| Species | rabbit |
| evaluation | non-irritant |
| Method | OECD 404 |

Serious eye damage/irritation (Components)**Potassium Bromide**

| | |
|------------|----------|
| Species | rabbit |
| evaluation | irritant |
| Method | OECD 405 |

Mutagenicity (Components)**Potassium Bromide**

| | |
|------------|-----------------------------------|
| evaluation | No mutagenicity in the Ames-test. |
| Method | OECD 471 |

Other information

Observe the usual precautions for handling chemicals.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity (Components)****Potassium Bromide**

| | |
|----------------------|---|
| Species | Fathead minnow (<i>Pimephales promelas</i>) |
| LC50 | > 45 mg/l |
| Duration of exposure | 96 h |
| Source | Literature value |

Daphnia toxicity (Components)**Potassium Bromide**

| | |
|----------------------|------------------|
| Species | Daphnia magna |
| EC50 | > 100 mg/l |
| Duration of exposure | 48 h |
| Source | Literature value |

Algae toxicity (Components)**Potassium Bromide**

| | |
|----------------------|------------------------------|
| EC50 | > 100 mg/l |
| Duration of exposure | 72 h |
| Source | Literature value |
| Source | BM000469 SDS Kirsch 20180222 |

12.2. Persistence and degradability**Biodegradability (Components)****Potassium Bromide**

| | |
|---------|--|
| Remarks | Inorganic product, cannot be eliminated from the water by biological purification processes. |
|---------|--|

12.3. Bioaccumulative potential**General information**

Trade name: Kalii bromidum

Substance number: 064440

Version: 3 / CH

Date revised: 17.12.2018

Replaces Version: 2 / CH

Print date: 01.10.19

There is no data available on the product apart from the information given in this subsection.

12.4. Mobility in soil

General information

There is no data available on the product apart from the information given in this subsection.

12.5. Results of PBT and vPvB assessment

Evaluation of persistence and bioaccumulation potential (Components)

Potassium Bromide

The Substance doesn't meets PBT/vPvB-criteria

12.6. Other adverse effects

General information / ecology

Do not allow it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information

| | Land transport ADR/RID | Marine transport IMDG/GGVSee | Air transport ICAO/IATA |
|-----------------|------------------------|---|---|
| 14.1. UN number | Non-dangerous goods | The product does not constitute a hazardous substance in sea transport. | The product does not constitute a hazardous substance in air transport. |

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (Germany)

Water Hazard Class (Germany) WGK 3

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H319 Causes serious eye irritation.

CLP categories listed in Chapter 3

Eye Irrit. 2 Eye irritation, Category 2

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

Trade name: Kalii bromidum

Substance number: 064440

Version: 3 / CH

Replaces Version: 2 / CH

Date revised: 17.12.2018

Print date: 01.10.19

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.