SAFETY DATA SHEET
Potassium Bromate

Issued: 05/05/2021
Revision No: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product name: POTASSIUM BROMATE

CAS number: 7758-01-2

EINECS number: 231-829-8

Relevant identified uses of the substance or mixture and uses advised against:

Use of substance / mixture: Manufacture of substances. Laboratory reagent. Flour improver.

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification under CLP: Acute Tox. 3: H301; Carc. 1B: H350; Ox. Sol. 1: H271

Most important adverse effects: May cause fire or explosion; strong oxidiser. Toxic if swallowed. May cause cancer.

Label elements:

Hazard statements: H271: May cause fire or explosion; strong oxidiser.
H301: Toxic if swallowed.
H350: May cause cancer.

Hazard pictograms: GHS03: Flame over circle.
GHS06: Skull and crossbones.
GHS08: Health hazard.

Signal words: Danger

[cont…]

Precautionary statements: P280: Wear protective gloves/protective clothing/eye protection/face protection.
P283: Wear fire resistant or flame-retardant clothing.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P321: Specific treatment (see advice on this label)
P330: Rinse mouth.
P370+P378: In case of fire: Use media other than water to extinguish.
P371+P380+P375: In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Other hazards:

PBT: This product is not identified as a PBT/vPvB substance.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Chemical identity: POTASSIUM BROMATE

CAS number: 7758-01-2

EINECS number: 231-829-8

4. FIRST AID MEASURES

Description of first aid measures:

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

Most important symptoms and effects, both acute and delayed:

Skin contact: There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.

Eye contact: There may be severe pain. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be loss of consciousness.

Indication of any immediate medical attention and special treatment needed: [cont…]

5. FIRE-FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Special hazards arising from the substance or mixture:

Exposure hazards: Toxic. In combustion emits toxic fumes.

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions: Notify the police and fire brigade immediately. Evacuate the area immediately. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take-action without suitable protective clothing - see section 8 of SDS. Do not create dust.

Environmental precautions: Do not discharge into drains or rivers. Alert the neighbourhood to the presence of fumes or gas.

Methods and material for containment and cleaning up:

Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

Reference to other sections:

7. HANDLING AND STORAGE

Precautions for safe handling:

Handling requirements: Avoid direct contact with the substance.
Ensure there is exhaust ventilation of the area.
Avoid the formation or spread of dust in the air.

Conditions for safe storage, including any incompatibilities:

Storage conditions: Store in a cool, well ventilated area.
Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

Specific end use(s):

[cont…]

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Workplace exposure limits: No data available.

DNEL/PNEC Values:

DNEL / PNEC: No data available.

Exposure controls:

Engineering measures: Ensure there is exhaust ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency. Particle filter class P1 (EN143).

Hand protection: Protective gloves.

Eye protection: Safety glasses with side-shields. Ensure eye bath is to hand.

Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

State: Powder

Colour: White

Odour: Odourless

Oxidising: Oxidising (by EC criteria)

Boiling point/range°C: 370 **Melting point/range°C:** 350

Relative density: 3.27 g/cm3

Other information: No data available.

10. STABILITY AND REACTIVITY

Reactivity:

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions:

Conditions to avoid: Heat. Hot surfaces. Flames.

Incompatible materials:

Materials to avoid: Strong oxidising agents. Strong acids.

Hazardous decomposition products: In combustion emits toxic fumes.

[cont…]

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	157	mg/kg
IPR	RAT	LD50	50	mg/kg
ORAL	MUS	LD50	289	mg/kg

Hazardous ingredients: **POTASSIUM BROMATE**

IPR	RAT	LD50	50	mg/kg
ORAL	MUS	LD50	289	mg/kg
ORAL	RAT	LD50	157	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 3)	ING	Hazardous: calculated
Carcinogenicity	-	Hazardous: calculated

Symptoms / routes of exposure:

Skin contact: There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.

Eye contact: There may be severe pain. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be loss of consciousness.

12. ECOLOGICAL INFORMATION

Toxicity:

Ecotoxicity values: No data available.

Persistence and degradability: Biodegradable.

Bioaccumulative potential: No bioaccumulation potential.

Mobility in soil:

Results of PBT and vPvB assessment:

PBT identification: This product is not identified as a PBT/vPvB substance.

Other adverse effects: Negligible ecotoxicity.

[cont…]

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

UN number: UN1484

UN proper shipping name:

Shipping name: POTASSIUM BROMATE

Transport hazard class(es):

Transport class: 5.1

Packing group: II

Environmentally hazardous: No

Marine pollutant: No

Special precautions for user:

15. REGULATORY INFORMATION

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H271: May cause fire or explosion; strong oxidiser.
H301: Toxic if swallowed.
H350: May cause cancer.

[cont…]

Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.