

**Section 1. Identification****1.1 Product Identifier**

CHE2894

Product Name

POTASSIUM BROMATE pure 500g.

CAS Number

7758-01-2

REACH Registration No

A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.

Molecular Formula

 $KBrO_3$ , 167.00**1.2 Relevant identified uses of the substance or mixture & uses advised against**

Uses of Material

Chemical for industrial and laboratory use. Not suitable for domestic use.

**1.3 Supplier**

Scientific Laboratory Supplies

**SCIENTIFIC  
LABORATORY  
SUPPLIES**Unit 6, Foresters Avenue  
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(24hr) 112  
(Have this document to hand)**Section 2. Hazards Identification****2.1 Classification of the substance or mixture****Classification according to regulation 1272/2008/EC**

Oxidising solid, category 1

Acute toxicity, category 3 (oral)

Carcinogenicity, category 1B

H271: May cause fire or explosion; strong oxidizer.

H301: Toxic if swallowed.

H350: May cause cancer.

**2.2 Label elements****Labelling according to regulation 1272/2008/EC**

Signal word

Danger

Hazard Pictograms



Hazard Statements May cause fire or explosion; strong oxidizer. May cause cancer. Toxic if swallowed.

Precautionary Statements Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing / combustible materials. Take any precaution to avoid mixing with combustibles... Wear protective gloves / protective clothing / eye protection.

## Section 3. Composition

### 3.1 Substances

| Component         | CAS No.   | EEC No.   | REACH No. | Conc w/w | CLP Classification (1272/2008/CE)      |
|-------------------|-----------|-----------|-----------|----------|--|
| Potassium bromate | 7758-01-2 | 231-839-8 |           | >99%     | Ox. Sol. 1, Acute Tox. 3 (O), Carc. 1B |

## Section 4. First Aid

### 4.1 Description of first aid measures

|                                      |   |
|--------------------------------------|---|
| Eyes                                 | Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION.  |
| Skin                                 | Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. If discomfort persists OBTAIN MEDICAL ATTENTION.  |
| Inhalation                           | Remove from exposure. Keep warm and at rest.  |
| Ingestion                            | If conscious give plenty of water to drink. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL ATTENTION URGENTLY. |
| Personal protection for first aiders | Wear protective gloves / eye protection.  |

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

No further relevant information available.

### 4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

## Section 5. Fire Fighting

### 5.1 Extinguishing media

|                     |                    |
|---------------------|--------------------|
| Extinguishing Media | Water spray.       |
| Unsuitable Media    | Nothing specified. |

### 5.2 Special hazards arising from the substance or mixture

|         |  |
|---------|--|
| Hazards | May evolve toxic fumes if involved in a fire. Mixtures with combustible materials are flammable. Mixtures with finely divided combustible materials can react explosively. |
|---------|--|

### 5.3 Advice for firefighters

|                         |  |
|-------------------------|--|
| Advice for firefighters | Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. |
|-------------------------|--|

## Section 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

|                     |  |
|---------------------|--|
| Personal Protection | Avoid breathing dust-wear respiratory protective equipment. Use approved personal protective equipment. Do not allow other people to enter area. Do not allow general use of area until it is safe to do so. |
|---------------------|--|

### 6.2 Environmental precautions

|               |  |
|---------------|--|
| Environmental | Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs. |
|---------------|--|

### 6.3 Methods and material for containment and cleaning up

Major Spillage                      Shovel/sweep up into container for removal Wash area down with copious amounts of water.  
Minor Spillage                      Wash area down with copious amounts of water.

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.  
Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.

### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Store in a suitable area for oxidising agents. Keep well separated from combustible materials.

### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

### 8.1 Control parameters

| Component         | CAS No    | Concentration | Workplace Exposure Limits |                         |
|-------------------|-----------|---------------|---------------------------|-------------------------|
|                   |           |               | Long Term (8hr TWA)       | Short Term 15min period |
| Potassium bromate | 7758-01-2 | >99%          | -                         | -                       |

Exposure data source(s)      No occupational exposure data currently available.

### 8.2 Exposure controls

Respiratory Protection      Use L.E.V. or natural ventilation to reduce dust concentrations to a minimum.  
Hand Protection              Wear gloves.  
Eye Protection                Use tightly fitting chemical splash proof glasses or goggles.  
Skin Protection                Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.  
Special Hazards                No special precautions required.

## Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance                      Colourless crystals or white powder.  
Odour                                No specific odour.  
pH                                      5.2-5.5 @ 20 °C (66 g/L)  
Boiling Point                      >425 °C (Decomposition)  
Melting Point                      409-413 °C  
Flash Point                        Not applicable  
Upper Flammable Limit        Not applicable  
Lower Flammable Limit        Not applicable  
Auto Ignition                      Not applicable  
Explosive Properties              No.  
Oxidising Properties              A strong oxidising agent.  
Vapour Pressure                    Not applicable  
Relative Density                    3.1300  
Water Solubility                    66 g/L

### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

|      |                                    |   |
|------|------------------------------------|---|
| 10.1 | Reactivity                         | No data available.  |
| 10.2 | Chemical Stability                 | Stable under normal conditions  |
| 10.3 | Possibility of hazardous reactions | No data available.  |
| 10.4 | Conditions to Avoid                | Do not allow to impregnate wood or other organic materials.   |
| 10.5 | Incompatible Materials             | Combustible materials, flammable material, many other sources of contamination. Reducing agents. Metal powders. |
| 10.6 | Hazardous Decomposition Products   | Decomposes to form flammable oxygen and toxic, irritant bromine fumes.  |

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

|                      |  |
|----------------------|--|
| Eyes                 | Contact with the solid or dust will be irritating to the eyes.   |
| Skin                 | Not expected to be a primary skin irritant.  |
| LD50 Skin            | Not available  |
| Ingestion            | Toxic if swallowed. Ingestion will cause severe internal irritation and damage, nausea, vomiting, abdominal pains and diarrhoea. Ingestion of large amounts may cause liver and kidney damage. |
| LD50 Oral            | 157mg/kg Rat   |
| Inhalation           | Symptoms will be similar to those following ingestion.   |
| LD50 Inhalation      | Not available  |
| TCLo                 | Not available  |
| Carcinogenicity      | Carcinogenicity, category 1B.  |
| Mutagenicity         | No information is available.   |
| Reproductive Effects | None identified.   |

## Section 12. Ecological

|      |                                  |   |
|------|----------------------------------|---|
| 12.1 | Toxicity                         | Low levels are readily bio-degraded in the environment. Higher levels are toxic to marine and plant life. |
|      | LC50 Algal                       | Not available   |
|      | LC50 Crustacea                   | Not available   |
|      | LC50 Fish                        | Not available   |
| 12.2 | Persistence and degradability    | No data available.  |
| 12.3 | Bioaccumulative potential        | No data available.  |
| 12.4 | Mobility in soil                 | No data available.  |
| 12.5 | Results of PBT & vPvB assessment | Assessment not required.  |
| 12.6 | Other adverse effects            | None known at present.  |

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

|                        |  |
|------------------------|--|
| Disposal Methods       | Dispose of to a licensed land fill site.                       |
| Contaminated Packaging | Wash out containers with water. Use a licensed waste disposer. |

## Section 14. Transport Information

|  |                                  |
|--|----------------------------------|
| <b>14.1 UN Number</b>                    | 1484                             |
| <b>14.2 Proper Shipping Name</b>         | Potassium bromate                |
| <b>14.3 Transport classes</b>            |                                  |
| UN classification                        | 5.1                              |
| Subsidiary hazard(s)                     | None                             |
| Transport category                       | 2                                |
| ADR Hazard ID                            | 50                               |
| Tunnel Restriction Code                  | E                                |
| <b>14.4 Packing Group</b>                | II                               |
| <b>14.5 Environment hazards</b>          | See section 12.                  |
| <b>14.6 Special precautions for user</b> | No special precautions required. |
| <b>14.7 Transport in bulk</b>            | Not transported in bulk.         |



## Section 15. Regulatory Information

### 15.1 Safety, health and environment regulations specific for substance/mixture.

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Oxidising solid, category 1; Acute toxicity, category 3 (oral); Carcinogenicity, category 1B

Signal word Danger

Hazard Pictograms



Hazard Statements H271, H350, H301  
May cause fire or explosion; strong oxidizer. May cause cancer. Toxic if swallowed.

Precautionary Statements P210, P220, P221, P280  
Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing / combustible materials. Take any precaution to avoid mixing with combustibles... Wear protective gloves / protective clothing / eye protection.

### 15.2 Chemical safety assessment

Assessment not required.

## Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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