

according to Regulation (EC) No 1907/2006

Potassium bromate for analysis, ACS

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

1.1. Product identifier

Potassium bromate for analysis, ACS

REACH Registration Number: 01-2119518844-34-XXXX

CAS No: 7758-01-2 Index No: 035-003-00-6 EC No: 231-829-8

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

AnalytiChem GmbH Company name: Street: Stempelstraße 6 Place: D-47167 Duisburg Telephone: 0203/5194-0

E-mail: info@analytichem.de

Contact person: Abteilung Produktsicherheit Telephone: 0203/5194-107/117

E-mail: produktsicherheit@analytichem.de

Internet: www.analytichem.de

Responsible Department: Abteilung Produktsicherheit

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, 1.4. Emergency telephone Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: number:

Telefax: 0203/5194-290

1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls

accepted)

Further Information

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Ox. Sol. 1: H271 Carc. 1B: H350 Acute Tox. 3: H301

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word: Danger

Pictograms:







Hazard statements

H271 May cause fire or explosion; strong oxidiser.

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H301 Toxic if swallowed. H350 May cause cancer.

Precautionary statements

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P221 Take any precaution to avoid mixing with combustibles.
P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula: KBrO3
Molecular weight: 167 g/mol

Hazardous components

CAS No	Chemical name			Quantity
	EC No Index No REACH No			
	Classification (Regulation (EC) No 1272/2008)			
7758-01-2	potassium bromate			100 %
	231-829-8	035-003-00-6	01-2119518844-34-XXXX	
	Ox. Sol. 1, Carc. 1B, Acute Tox. 3; H271 H350 H301			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CA	\S No	EC No	Chemical name	
		Specific Conc. Limits, M-factors and ATE		
77	58-01-2	231-829-8	potassium bromate	100 %
		oral: LD50 = 157 mg/kg		

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air.

Call a physician immediately.

After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

Call a physician immediately.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

Consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water.



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Call a physician immediately.

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

Cough, Gastrointestinal complaints, Vomiting

Irritant, Unconsciousness, Respiratory complaints

Headache, Cardiac arrhythmias, Blood pressure drop

Dyspnoea, Spasms, Cyanosis (blue coloured blood)

Methaemoglobinaemia

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Non-combustible solids

Hazardous combustion products

In case of fire may be liberated: Hydrogen bromide (HBr)

Oxidising properties (Oxidising agent, strong)

5.3. Advice for firefighters

Do not inhale explosion and combustion gases.

Avoid contact with skin, eyes and clothes.

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders: Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Take up carefully when dry. Take up dust-free and set down dust-free.

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.



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Other information

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid exposure - obtain special instructions before use.

Read label before use. Handle and open container with care.

Avoid dust formation. Do not breathe dust.

When using do not eat, drink, smoke, sniff. Keep container tightly closed.

Use personal protection equipment. Use extractor hood (laboratory).

Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Make available sufficient washing facilities

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Further information on handling

Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

Take off immediately all contaminated clothing and wash it before reuse.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a place accessible by authorized persons only.

storage temperature < +30°C

Hints on joint storage

Keep away from combustible material.

Further information on storage conditions

Store in a dry place.

Keep container tightly closed.

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment

If handled uncovered, arrangements with local exhaust ventilation have to be used.



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Avoid dust formation. Do not breathe dust.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles

Wear eye/face protection.

Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact

Trade name/designation KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear suitable protective clothing.

Take off immediately all contaminated clothing.

Wash hands before breaks and after work.

Respiratory protection

Respiratory protection necessary at: dust formation

Filtering device with filter or ventilator filtering device of type: B-(P3)

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: solid Colour: white Odour: odourless Odour threshold: No data available

Melting point/freezing point: 409-413 °C Boiling point or initial boiling point and >425 °C

boiling range:

Flammability: No data available Lower explosion limits: No data available Upper explosion limits: No data available Flash point: No data available Auto-ignition temperature: No data available >425 °C Decomposition temperature: pH-Value (at 20 °C): 5 - 9 (50 g/l) Viscosity / kinematic: No data available



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Water solubility: ~66 g/L

(at 20 °C)

Solubility in other solvents

No data available

Dissolution rate: No data available Partition coefficient n-octanol/water: No data available Dispersion stability: No data available Vapour pressure: No data available Vapour pressure: No data available Density: 3.13 a/cm³ No data available Relative density: ~1400 kg/m³ Bulk density: Relative vapour density: No data available Particle characteristics: No data available

9.2. Other information

Information with regard to physical hazard classes

Explosive properties No data available

Sustaining combustion: No data available

Self-ignition temperature

No data available Gas:

Oxidizing properties No data available

Other safety characteristics

No data available Evaporation rate: Solvent separation test: No data available Solvent content: 100% Solid content: Sublimation point: No data available No data available Softening point: No data available Pour point:

No data available:

No data available Viscosity / dynamic: Flow time: No data available

Further Information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Oxidising agent

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

arsenic, White/yellow phosphor Metal powder, SULPHUR Combustible substance, sulphuric acid Reducing agent, Acid

10.4. Conditions to avoid

Heat

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10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

In case of fire may be liberated: SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicocinetics, metabolism and distribution

Avoid exposure - obtain special instructions before use.

Acute toxicity

Toxic if swallowed.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7758-01-2	potassium bromate				
	oral	LD50 157 mg/kg		Eisei Kaguku 1991, 37, (4), 258-265. (19	OECD Guideline 401

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Causes mild skin irritation.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

May cause cancer. (potassium bromate)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

No data available

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

No data available

11.2. Information on other hazards

Endocrine disrupting properties

No data available

Other information

Liver and kidney damage



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Pulmonary oedema

Further information

Cough, Gastrointestinal complaints, Vomiting Irritant, Unconsciousness, Respiratory complaints Headache, Cardiac arrhythmias, Blood pressure drop Dyspnoea, Spasms, Cyanosis (blue coloured blood) Methaemoglobinaemia

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d] Species	Source	Method
7758-01-2	potassium bromate				
	Acute algae toxicity	ErC50 > 100 mg/l	72 h Desmodesmus subspicatus		OECD Guideline 201

12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains.

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a hazardous waste incinerator facility under observation of official regulations.

Do not mix with other wastes.

Do not empty into drains.

Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1484

14.2. UN proper shipping name: POTASSIUM BROMATE



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on anargerement brand	according to Regulation (EG) No 1307/2000				
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14.3. Transport hazard class(es):	5.1				
14.4. Packing group:	II				
Hazard label:	5.1				
Classification code:	02				
Limited quantity:	1 kg				
Excepted quantity:	E2				
Transport category:	2				
Hazard No:	50				
Tunnel restriction code:	E				
Inland waterways transport (ADN)					
14.1. UN number or ID number:	UN 1484				
14.2. UN proper shipping name:	POTASSIUM BROMATE				
14.3. Transport hazard class(es):	5.1				
14.4. Packing group:	II				
Hazard label:	5.1				
Classification code:	O2				
Limited quantity:	1 kg				
Excepted quantity:	E2				
Marine transport (IMDG)					
14.1. UN number or ID number:	UN 1484				
14.2. UN proper shipping name:	POTASSIUM BROMATE				
14.3. Transport hazard class(es):	5.1				
14.4. Packing group:	II				
Hazard label:	5.1				
Special Provisions:	-				
Limited quantity:	1 kg				
Excepted quantity:	E2				
EmS:	F-H, S-Q				
Air transport (ICAO-TI/IATA-DGR)					
14.1. UN number or ID number:	UN 1484				
14.2. UN proper shipping name:	POTASSIUM BROMATE				
14.3. Transport hazard class(es):	5.1				
14.4. Packing group:	II				
Hazard label:	5.1				
Limited quantity Passenger:	2.5 kg				
Passenger LQ:	Y544				
Excepted quantity:	E2				
14 TA 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	550				

IATA-max. quantity - Cargo: **14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

SECTION 15: Regulatory information

IATA-packing instructions - Passenger:

IATA-max. quantity - Passenger:

IATA-packing instructions - Cargo:

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 28, Entry 75

Information according to 2012/18/EU H2 ACUTE TOXIC

(SEVESO III):

Additional information: P8

558

5 kg

562

25 kg

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National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water hazard class (D): 3 - highly hazardous to water

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 12.

Abbreviations and acronyms

Ox. Sol: Oxidising solid Acute Tox: Acute toxicity Carc: Carcinogenicity

Relevant H and EUH statements (number and full text)

H271 May cause fire or explosion; strong oxidiser.

H301 Toxic if swallowed. H350 May cause cancer.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.