

according to Regulation (EC) No 1907/2006

# Sodium bromate technical grade

Revision date: 08.09.2023 Product code: 25328 Page 1 of 10

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

#### 1.1. Product identifier

Sodium bromate technical grade

7789-38-0 EC No: 232-160-4

### 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

Company name: AnalytiChem GmbH Street: Stempelstraße 6 Place: D-47167 Duisburg

Telephone: 0203/5194-0 Telefax: 0203/5194-290

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

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

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

accepted)

#### **Further Information**

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

### Regulation (EC) No 1272/2008

Ox. Sol. 2; H272 Carc. 1B; H350 Muta. 2; H341 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

Regulation (EC) No 1272/2008 Signal word: Danger

Print date: 08.09.2023



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

## Sodium bromate technical grade

Revision date: 08.09.2023 Product code: 25328 Page 2 of 10

### Pictograms:







#### **Hazard statements**

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.

### **Precautionary statements**

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. P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

### Special labelling of certain mixtures

Restricted to professional users.

#### 2.3. Other hazards

No data available

## **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

Sum formula: NaBrO3
Molecular weight: 150,89 g/mol

# **Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
7789-38-0	38-0 sodium bromate			100 %
	232-160-4			
	Ox. Sol. 2, Carc. 1B, Muta. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H272 H350 H341 H302 H315 H319 H335			

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

# Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
7789-38-0	232-160-4	sodium bromate	100 %
	oral: ATE = 500 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**



according to Regulation (EC) No 1907/2006

# Sodium bromate technical grade

Revision date: 08.09.2023 Product code: 25328 Page 3 of 10

### 4.1. Description of first aid measures

#### General information

No data available

#### After inhalation

Provide fresh air.

#### After contact with skin

Wash immediately with: Water

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

### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

### After ingestion

Rinse mouth immediately and drink plenty of water.

Call a physician immediately.

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

Cough Dyspnoea

Irritant

### 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

Oxidizing

Hazardous combustion products

In case of fire may be liberated:

Hydrogen bromide (HBr)

### 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**

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

Move undamaged containers from immediate hazard area if it can be done safely.

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

# **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.



according to Regulation (EC) No 1907/2006

# Sodium bromate technical grade

Revision date: 08.09.2023 Product code: 25328 Page 4 of 10

**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.

#### 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

Handle and open container with care.

Provide adequate ventilation.

Avoid contact with skin, eyes and clothes.

Avoid dust formation. Do not breathe dust.

# Advice on protection against fire and explosion

Keep away from combustible material.

#### Advice on general occupational hygiene

Take off contaminated clothing.

Wash hands before breaks and after work.

When using do not eat or drink.

### Further information on handling

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and after work.

Draw up and observe skin protection programme.

# 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep container tightly closed and dry.

## Hints on joint storage

Keep away from combustible material.

# Further information on storage conditions

storage temperature: < +30°C

# 7.3. Specific end use(s)

Laboratory chemicals



according to Regulation (EC) No 1907/2006

## Sodium bromate technical grade

Revision date: 08.09.2023 Product code: 25328 Page 5 of 10

#### **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.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Suitable eye protection: goggles.

### 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: P2

### **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: colourless
Odour: odourless
Odour threshold: No data available

Melting point/freezing point:

Boiling point or initial boiling point and

No data available

boiling range:

Flammability: not determined Lower explosion limits: not determined Upper explosion limits: not determined



according to Regulation (EC) No 1907/2006

## Sodium bromate technical grade

Revision date: 08.09.2023 Product code: 25328 Page 6 of 10

Flash point: X

Auto-ignition temperature:

Decomposition temperature:

pH-Value (at 20 °C):

Viscosity / kinematic:

Water solubility:

No data available

No data available

No data available

364 g/L

(at 20 °C)

Solubility in other solvents

not determined

Dissolution rate: No data available Partition coefficient n-octanol/water: not determined Dispersion stability: No data available Vapour pressure: No data available Vapour pressure: No data available Density (at 20 °C): 3,3 q/cm<sup>3</sup> Relative density: No data available Bulk density: No data available Relative vapour density: not determined 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

Solid: not determined Gas: not applicable

Oxidizing properties

The product is: oxidising, Oxidising.

## Other safety characteristics

not determined Evaporation rate: Solvent separation test: No data available Solvent content: No data available Solid content: 100% Sublimation point: No data available Softening point: No data available Pour point: No data available No data available Viscosity / dynamic: No data available Flow time: No data available

# **Further Information**

No data available

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Oxidising agent, strong

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

## 10.3. Possibility of hazardous reactions

Combustible substance, Reducing agent

Aluminium, Fluorine



according to Regulation (EC) No 1907/2006

## Sodium bromate technical grade

Revision date: 08.09.2023 Product code: 25328 Page 7 of 10

Metal powder, SULPHUR White/yellow phosphor, arsenic Copper

## 10.4. Conditions to avoid

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

## 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

No data available

#### Acute toxicity

Harmful if swallowed.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7789-38-0	sodium bromate				
		ATE 500			

#### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

### Sensitising effects

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

### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing genetic defects. (sodium bromate)

May cause cancer. (sodium bromate)

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

# STOT-single exposure

May cause respiratory irritation. (sodium bromate)

# 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



according to Regulation (EC) No 1907/2006

### Sodium bromate technical grade

Revision date: 08.09.2023 Product code: 25328 Page 8 of 10

#### 11.2. Information on other hazards

## **Endocrine disrupting properties**

No data available

#### Other information

No data available

### **Further information**

Cough

Dyspnoea

Irritant

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

No data available

## 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**

Avoid release to the environment.

Do not allow to enter into surface water or drains.

# **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 physico-chemical treatment facility under observation of official regulations.

Do not mix with other wastes.

Do not empty into drains.

### Contaminated packaging

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

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

# **SECTION 14: Transport information**

### Land transport (ADR/RID)

14.1. UN number or ID number: UN 1494

14.2. UN proper shipping name: SODIUM BROMATE

14.3. Transport hazard class(es):5.114.4. Packing group:IIHazard label:5.1Classification code:O2



according to Regulation (EC) No 1907/2006

Sodium bromate technical grade			
Revision date: 08.09.2023		Product code: 25328	Page 9 of 10
Limited quantity:	1 kg		

Limited quantity: 1 k
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 1494

14.2. UN proper shipping name: SODIUM BROMATE

14.3. Transport hazard class(es):5.114.4. Packing group:IIHazard label:5.1Classification code:O2Limited quantity:1 kgExcepted quantity:E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1494

14.2. UN proper shipping name: SODIUM BROMATE

14.3. Transport hazard class(es):5.114.4. Packing group:IIHazard label:5.1Special Provisions:-Limited quantity:1 kgExcepted quantity:E2EmS:F-H, S-Q

Segregation group: heavy metals and their salts (including their organometallic compounds)

Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number or ID number:** UN 1494

14.2. UN proper shipping name: SODIUM BROMATE

14.3. Transport hazard class(es):5.114.4. Packing group:IIHazard label:5.1Limited quantity Passenger:2.5 kgPassenger LQ:Y544Excepted quantity:E2

IATA-packing instructions - Passenger:558IATA-max. quantity - Passenger:5 kgIATA-packing instructions - Cargo:562IATA-max. quantity - Cargo:25 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Oxidising substances.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

# **SECTION 15: Regulatory information**

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

**EU** regulatory information

Information according to 2012/18/EU

EU

P8 OXIDISING LIQUIDS AND SOLIDS

(SEVESO III):

**National regulatory information** 



according to Regulation (EC) No 1907/2006

Sodium bromate technical grade Revision date: 08.09.2023 Product code: 25328 Page 10 of 10

**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): 9,12.

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

**ELINCS: European List of Notified Chemical Substances** 

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50% Ox. Sol: Oxidising solid Acute Tox: Acute toxicity Skin Irrit: Skin irritation Eye Irrit: Eye irritation Muta: Germ cell mutagenicity

Carc: Carcinogenicity

STOT SE: Specific target organ toxicity - single exposure

## Relevant H and EUH statements (number and full text)

H272 May intensify fire; oxidiser. H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H341 Suspected of causing genetic defects. 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.