

Creation Date 03-May-2012

Revision Date 30-Apr-2013

Revision Number 3

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Description:

Sodium bromate

Cat No.

208870000; 208870025; 208870050; 208871000; 208875000

Synonyms

Bromic acid, sodium salt.

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

Recommended Use

Laboratory chemicals

Uses advised against

No Information available

Details of the supplier of the safety data sheet

Company

Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium

E-mail address

begel.sdsdesk@thermofisher.com

Emergency Telephone Number

For information in the US, call: 001-800-ACROS-01

For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99

Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300

CHEMTREC Phone Number, Europe: 001-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

| | |
|--|------------|
| Skin Corrosion/Irritation | Category 2 |
| Serious Eye Damage/Eye Irritation | Category 2 |
| Specific target organ toxicity - (single exposure) | Category 3 |
| Oxidizing solids. | Category 2 |

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

Symbol(s)

O - Oxidizing

Xn - Harmful

R-phrases

R 8 - Contact with combustible material may cause fire

R22 - Harmful if swallowed

Risk Combination Phrases

R36/37/38 - Irritating to eyes, respiratory system and skin

Label Elements

SECTION 2. HAZARDS IDENTIFICATION



Signal Word

Danger

Hazard Statements

H335 - May cause respiratory irritation

H319 - Causes serious eye irritation

H315 - Causes skin irritation

H272 - May intensify fire; oxidizer

Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

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

Other Hazards

No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | EC-No. | Weight % | CAS-No | DSD Classification - 67/548/EEC | CLP Classification - Regulation (EC) No 1272/2008 | REACH No. |
|-----------------------------|-------------------|----------|-----------|---------------------------------------|--|-----------|
| Sodium bromate 7789-38-0 | EEC No. 232-160-4 | >95 | 7789-38-0 | O; R8 Xn; R22 Xi; R36/3738 | Acute Tox. 4 (H302) STOT SE 3 (H335) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Ox. Sol. 2 (H272) | - |

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

SECTION 4. FIRST AID MEASURES

Description of first aid measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

| | |
|---------------------------|---|
| Skin Contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention. |
| Ingestion | Clean mouth with water. Get medical attention. |
| Inhalation | Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention. |
| Notes to Physician | Treat symptomatically |

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Cool closed containers exposed to fire with water spray. Water spray. Carbon dioxide (CO₂). Dry chemical. chemical foam.

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

Oxidizer: Contact with combustible/organic material may cause fire.

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Environmental precautions

Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes. Do not breathe dust. Remove and wash contaminated clothing before re-use. Use explosion-proof equipment. Use only non-sparking tools.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Do not store near combustible materials. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Specific End Uses

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

| | |
|---|--|
| Exposure limits | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
| Biological limit values | This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies. |
| Derived No Effect Level (DNEL) | No information available. |
| Predicted No Effect Concentration (PNEC) | No information available. |
| Exposure controls | |
| Engineering Measures | Ensure adequate ventilation, especially in confined areas Ensure that eyewash stations and safety showers are close to the workstation location |
| Personal protective equipment | |
| Eye Protection | Goggles |
| Hand Protection | Protective gloves |
| Skin and body protection | Wear appropriate protective gloves and clothing to prevent skin exposure |
| Respiratory Protection | Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced |
| Hygiene Measures | Handle in accordance with good industrial hygiene and safety practice |
| Environmental exposure controls | No information available. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|----------------------------------|---------------------------|
| Physical State | Powder Solid |
| Appearance | White |
| Odor | odorless |
| pH | 7 |
| Vapor Pressure | No information available. |
| Vapor Density | 5.2 |
| Boiling Point/Range | No information available. |
| Melting Point/Range | 381°C / 717.8°F |
| Decomposition temperature | 381 °C |
| Flash Point | No information available. |
| Autoignition Temperature | No information available. |
| Water Solubility | 364 g/L (20°C) |
| Molecular Formula | Br Na O3 |
| Molecular Weight | 150.9 |

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

| | |
|---------------------------------|--|
| Hazardous Polymerization | Hazardous polymerization does not occur. |
| Hazardous Reactions | No information available. |

Conditions to Avoid

Excess heat, Incompatible products.

Incompatible Materials

Strong acids, Alcohols, Strong reducing agents, Organic materials, Powdered metals.

Hazardous Decomposition Products

Hydrogen halides.

SECTION 11. TOXICOLOGICAL INFORMATION**Information on Toxicological Effects****Acute Toxicity****Component Information****Component**

Sodium bromate

| LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-------------------|-------------|-----------------|
| 400 mg/kg (Rat) | | |

Chronic Toxicity**Carcinogenicity**

There are no known carcinogenic chemicals in this product

Sensitization

No information available.

Mutagenic Effects

No information available

Reproductive Effects

No information available.

Developmental Effects

No information available.

Target Organs

No information available.

Other Adverse Effects

The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information

Endocrine Disruptor Information

None known

SECTION 12. ECOLOGICAL INFORMATION**Toxicity****Ecotoxicity effects**

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

Persistence and degradability

No information available

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment**Other adverse effects**

No information available

SECTION 13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Waste from Residues / Unused Products**

Dispose of in accordance with local regulations

Contaminated Packaging

Empty containers should be taken to local recyclers for disposal

SECTION 14. TRANSPORT INFORMATION**IMDG/IMO**

UN-No 1494
Hazard Class 5.1
Packing Group II
Proper Shipping Name SODIUM BROMATE

ADR

UN-No 1494
Hazard Class 5.1
Packing Group II
Proper Shipping Name SODIUM BROMATE

IATA

UN-No 1494
Hazard Class 5.1
Packing Group II
Proper Shipping Name SODIUM BROMATE

SECTION 15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories**

| Component | EINECS | ELINCS | NLP | TSCA | DSL | NDSL | PICCS | ENCS | CHINA | AICS | KECL |
|----------------|-----------|--------|-----|------|-----|------|-------|------|-------|------|------|
| Sodium bromate | 232-160-4 | - | | X | X | - | X | X | X | X | X |

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment**SECTION 16. OTHER INFORMATION****Full text of R-phrases referred to under sections 2 and 3**

R 8 - Contact with combustible material may cause fire

R22 - Harmful if swallowed

R36/37/38 - Irritating to eyes, respiratory system and skin

SECTION 16. OTHER INFORMATION

Revision Date 30-Apr-2013

Revision Summary

Reason for revision (M)SDS sections updated, 2, 3.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet