

### MATERIAL SAFETY DATA SHEET (MSDS)

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

##### 1.1. Product identifier

Product form : Substance  
:  
EC no : 232-160-4  
CAS No : 7789-38-0  
Product code : 05802

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

###### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

###### 1.2.2. Uses advised against

No additional information available

##### 1.3. Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD.  
107 Wode House Road, Jehangir Villa, Colaba  
400005 Mumbai - INDIA  
T +91 22 6663 6663 - F +91 22 6663 6699  
[info@lobachemie.com](mailto:info@lobachemie.com) - [www.lobachemie.com](http://www.lobachemie.com)

##### 1.4. Emergency telephone number

Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Oxidising Solids, H272  
Category 2  
Acute toxicity (oral), H302  
Category 4  
Skin corrosion/irritation, H315  
Category 2  
Serious eye damage/eye  
irritation, Category 2 H319  
Specific target organ  
toxicity — Single  
exposure, Category 3, H335  
Respiratory tract irritation

Full text of classification categories and H statements : see section 16

# SODIUM BROMATE EXTRA PURE

## Safety Data Sheet

### Classification according to Directive 67/548/EEC or 1999/45/EC

O; R8

Xn; R22

Xi; R36/37/38

Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS03

GHS07

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H272 - May intensify fire; oxidiser  
H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation

Precautionary statements (CLP)

: P220 - Keep/Store away from clothing/.../combustible materials  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name : SODIUM BROMATE EXTRA PURE

CAS No : 7789-38-0

EC no : 232-160-4

Full text of R- and H-phrases: see section 16

### 3.2. Mixture

Not applicable

# SODIUM BROMATE EXTRA PURE

## Safety Data Sheet

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.
- First-aid measures after skin contact : Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

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

- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after ingestion : Harmful if swallowed.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).
- Unsuitable extinguishing media : Do not use a heavy water stream.

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

No additional information available

#### 5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Use personal protective equipment as required.
- Emergency procedures : Stop release.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

- Methods for cleaning up : Clear up rapidly by scoop or vacuum.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Do not get in eyes, on skin, or on clothing.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash ... thoroughly after handling.

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

- Storage conditions : Store in original container. Keep container tightly closed. Store in a dry place. Protect from moisture.

# SODIUM BROMATE EXTRA PURE

## Safety Data Sheet

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

|                          |                                      |
|--------------------------|--------------------------------------|
| Hand protection          | : protective gloves                  |
| Eye protection           | : Chemical goggles or safety glasses |
| Skin and body protection | : Wear suitable protective clothing  |
| Respiratory protection   | : Wear respiratory protection        |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |                                |
|--|--------------------------------|
| Physical state                             | : Solid                        |
| Colour                                     | : White crystalline.           |
| Odour                                      | : No data available            |
| Odour threshold                            | : No data available            |
| pH   | : 5 - 9                        |
| Relative evaporation rate (butylacetate=1) | : No data available            |
| Melting point                              | : 381 °C                       |
| Freezing point                             | : No data available            |
| Boiling point                              | : No data available            |
| Flash point                                | : No data available            |
| Auto-ignition temperature                  | : No data available            |
| Decomposition temperature                  | : No data available            |
| Flammability (solid, gas)                  | : No data available            |
| Vapour pressure                            | : No data available            |
| Relative vapour density at 20 °C           | : No data available            |
| Relative density                           | : No data available            |
| Density                                    | : 3.34 g/cm <sup>3</sup>       |
| Solubility                                 | : Water: Soluble in cold water |
| Log Pow                                    | : No data available            |
| Viscosity, kinematic                       | : No data available            |

# SODIUM BROMATE EXTRA PURE

## Safety Data Sheet

|                      |   |
|----------------------|---|
| Viscosity, dynamic   | : No data available   |
| Explosive properties | : No data available   |
| Oxidising properties | : The substance or mixture is classified as oxidizing with the subcategory 2. |
| Explosive limits     | : No data available   |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|  |   |
|--|---|
| Acute toxicity                                     | : Oral: Harmful if swallowed.                 |
| Skin corrosion/irritation                          | : Causes skin irritation.<br>pH: 5 - 9        |
| Serious eye damage/irritation                      | : Causes serious eye irritation.<br>pH: 5 - 9 |
| Respiratory or skin sensitisation                  | : Not classified                              |
| Germ cell mutagenicity                             | : Not classified                              |
| Carcinogenicity                                    | : Not classified                              |
| Reproductive toxicity                              | : Not classified                              |
| Specific target organ toxicity (single exposure)   | : May cause respiratory irritation.           |
| Specific target organ toxicity (repeated exposure) | : Not classified                              |
| Aspiration hazard                                  | : Not classified                              |

# SODIUM BROMATE EXTRA PURE

## Safety Data Sheet

Potential adverse human health effects and symptoms : Harmful if swallowed.

### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to ...

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

|               |        |
|---------------|--------|
| UN-No. (ADR)  | : 1494 |
| UN-No. (IMDG) | : 1494 |
| UN-No.(IATA)  | : 1494 |
| UN-No.(ADN)   | : 1494 |
| UN-No. (RID)  | : 1494 |

#### 14.2. UN proper shipping name

|                                       |  |
|---------------------------------------|--|
| Proper Shipping Name (ADR)            | : SODIUM BROMATE                       |
| Proper Shipping Name (IMDG)           | : SODIUM BROMATE                       |
| Proper Shipping Name (IATA)           | : SODIUM BROMATE                       |
| Proper Shipping Name (ADN)            | : SODIUM BROMATE                       |
| Proper Shipping Name (RID)            | : SODIUM BROMATE                       |
| Transport document description (ADR)  | : UN 1494 SODIUM BROMATE, 5.1, II, (E) |
| Transport document description (IMDG) | : UN 1494 SODIUM BROMATE, 5.1, II      |
| Transport document description (IATA) | : UN 1494 SODIUM BROMATE, 5.1, II      |

# SODIUM BROMATE EXTRA PURE

## Safety Data Sheet

Transport document description (ADN) : UN 1494 SODIUM BROMATE, 5.1, II  
Transport document description (RID) : UN 1494 SODIUM BROMATE, 5.1, II

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 5.1  
Danger labels (ADR) : 5.1



#### IMDG

Transport hazard class(es) (IMDG) : 5.1  
Danger labels (IMDG) : 5.1



#### IATA

Transport hazard class(es) (IATA) : 5.1  
Hazard labels (IATA) : 5.1



#### ADN

Transport hazard class(es) (ADN) : 5.1  
Danger labels (ADN) : 5.1



#### RID

Transport hazard class(es) (RID) : 5.1  
Danger labels (RID) : 5.1



### 14.4. Packing group

Packing group (ADR) : II  
Packing group (IMDG) : II  
Packing group (IATA) : II

# SODIUM BROMATE EXTRA PURE

## Safety Data Sheet


Packing group (ADN) : II  
Packing group (RID) : II

### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : O2  
Limited quantities (ADR) : 1kg  
Excepted quantities (ADR) : E2  
Packing instructions (ADR) : P002, IBC08  
Special packing provisions (ADR) : B4  
Mixed packing provisions (ADR) : MP2  
Portable tank and bulk container instructions (ADR) : T3  
Portable tank and bulk container special provisions (ADR) : TP33  
Tank code (ADR) : SGAV  
Tank special provisions (ADR) : TU3  
Vehicle for tank carriage : AT  
Transport category (ADR) : 2  
Special provisions for carriage - Packages (ADR) : V11  
Special provisions for carriage - Bulk (ADR) : VC1, VC2, AP6, AP7  
Special provisions for carriage - Loading, unloading and handling (ADR) : CV24  
Hazard identification number (Kemler No.) : 50  
Orange plates :   
Tunnel restriction code (ADR) : E  
EAC code : 1Y

#### - Transport by sea

Limited quantities (IMDG) : 1 kg  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P002  
IBC packing instructions (IMDG) : IBC08  
IBC special provisions (IMDG) : B2, B4  
Tank instructions (IMDG) : T3  
Tank special provisions (IMDG) : TP33  
EmS-No. (Fire) : F-H  
EmS-No. (Spillage) : S-Q  
Stowage category (IMDG) : A  
Segregation (IMDG) : SG38, SG49  
MFAG-No : 141

#### - Air transport

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y544



# SODIUM BROMATE EXTRA PURE

## Safety Data Sheet

|  |         |
|--|---------|
| PCA limited quantity max net quantity (IATA) | : 2.5kg |
| PCA packing instructions (IATA)              | : 558   |
| PCA max net quantity (IATA)                  | : 5kg   |
| CAO packing instructions (IATA)              | : 562   |
| CAO max net quantity (IATA)                  | : 25kg  |
| ERG code (IATA)                              | : 5L    |

### - Inland waterway transport

|                                   |        |
|-----------------------------------|--------|
| Classification code (ADN)         | : O2   |
| Limited quantities (ADN)          | : 1 kg |
| Excepted quantities (ADN)         | : E2   |
| Equipment required (ADN)          | : PP   |
| Number of blue cones/lights (ADN) | : 0    |

### - Rail transport

|   |                      |
|---|----------------------|
| Classification code (RID)                                     | : O2                 |
| Limited quantities (RID)                                      | : 1kg                |
| Excepted quantities (RID)                                     | : E2                 |
| Packing instructions (RID)                                    | : P002, IBC08        |
| Special packing provisions (RID)                              | : B4                 |
| Mixed packing provisions (RID)                                | : MP2                |
| Portable tank and bulk container instructions (RID)           | : T3                 |
| Portable tank and bulk container special provisions (RID)     | : TP33               |
| Tank codes for RID tanks (RID)                                | : SGAV               |
| Special provisions for RID tanks (RID)                        | : TU3                |
| Transport category (RID)                                      | : 2                  |
| Special provisions for carriage – Packages (RID)              | : W11                |
| Special provisions for carriage – Bulk (RID)                  | : VC1, VC2, AP6, AP7 |
| Special provisions for carriage – Loading and unloading (RID) | : CW24               |
| Colis express (express parcels) (RID)                         | : CE10               |
| Hazard identification number (RID)                            | : 50                 |

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

SODIUM BROMATE EXTRA PURE is not on the REACH Candidate List

SODIUM BROMATE EXTRA PURE is not on the REACH Annex XIV List

#### 15.1.2. National regulations

# SODIUM BROMATE EXTRA PURE

## Safety Data Sheet

### Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 3, strongly hazardous to water (KBwS-Beschluss; WGK No 8667)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

### Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

|                     |  |
|---------------------|--|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4  |
| Eye Irrit. 2        | Serious eye damage/eye irritation, Category 2  |
| Ox. Sol. 2          | Oxidising Solids, Category 2   |
| Skin Irrit. 2       | Skin corrosion/irritation, Category 2  |
| STOT SE 3           | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H272                | May intensify fire; oxidiser   |
| H302                | Harmful if swallowed   |
| H315                | Causes skin irritation   |
| H319                | Causes serious eye irritation  |
| H335                | May cause respiratory irritation   |
| R22                 | Harmful if swallowed   |
| R36/37/38           | Irritating to eyes, respiratory system and skin  |
| R8                  | Contact with combustible material may cause fire   |
| O                   | Oxidising  |
| Xi                  | Irritant   |
| Xn                  | Harmful  |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*