Vickers Laboratories Ltd - Safety Data Sheet

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1 16 April 2021 Revision date:

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Section 1. Identification

Product Identifier 2123

> Product Name SODIUM BROMATE pure

CAS Number

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.

NaBro =150.89 Molecular Formula

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 **Supplier** Vickers Laboratories Ltd



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Pudsey

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UNITED KINGDOM

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(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 H271: May cause fire or explosion; strong oxidizer. Acute toxicity, category 4 (oral) H302: Harmful if swallowed. Skin corrosion/irritation, category 2 H315: Causes skin irritation. Serious eye damage/irritation, category 2 H319: Causes serious eye irritation. H341: Suspected of causing genetic defects. Germ cell mutagenicity, category 2

Carcinogenicity, category 1B H350: May cause cancer.

Spec target organ tox - single, category 3 H335: May cause respiratory irritation.

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. Harmful if swallowed. Causes skin irritation. Causes serious eye

irritation. Suspected of causing genetic defects. May cause cancer. May cause respiratory irritation.

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Take any precaution to avoid **Precautionary Statements**

mixing with combustibles... Wear fire/flame resistant/retardant clothing. Wash thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. In case of fire: Evacuate area. Fight fire remotely due to

the risk of explosion.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Sodium bromate	7789-38-0	232-160-4		>99%	Ox. Sol. 1,Acute Tox. 4 (O),Skin Irrit. 2,Eye Irrit. 2,Muta. 2,Carc. 1B,STOT SE 3 (I)

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.

Inhalation Remove from exposure. If material has reacted with an acid to form, nitrous fumes, Obtain immediate medical

attention even if patient is not complaining of discomfort.

If conscious give plenty of water to drink. Keep warm and at rest. If there is difficulty in breathing give oxygen if Ingestion

available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL

ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

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

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

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Evacuate area immediately. If contact with acid is possible, use full protective clothing and breathing apparatus.

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 Expo		Exposure Limits	osure Limits	
				Long Term (8	Bhr TWA)	Short Term 15min period)		
Ī	Sodium bromate	7789-38-0	>99%	-	-	-	-	

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

8.2 Exposure controls

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 White crystalline powder.

Odour No specific odour.

pH 6 @ 20°C solution.

Boiling Point Not available

Melting Point 381°C
Flash Point Not applicable
Upper Flammable Limit
Lower Flammable Limit
Auto Ignition Not applicable
Not applicable
Not applicable

Explosive Properties No.

Oxidising Properties A strong oxidising agent.

Vapour Pressure Not applicable Relative Density 3.3400 Water Solubility 20%

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 Heat, sparks and contact with combustible material.

10.5 Incompatable Materials Flammable/combustible material, powdered metals and metal sulphides. Mixtures with grease are shock sensitive

explosives at 120 C.

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 Causes serious eye irritation.

Skin Causes skin irritation.

LD50 Skin Not available

Ingestion Harmful if swallowed. Repeated small doses cause a fall in blood pressure, rapid pulse, headache and visual

disturbances. Larger doses cause nausea, vomiting, cyanosis, collapse and coma.

LD50 Oral 400mg/kg Rat

Inhalation May cause respiratory irritation.

LD50 Inhalation Not available
TCLo Not available

Carcinogenicity May cause cancer.

Mutagenicity Suspected of causing genetic defects.

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 No data available.

degradability

12.3 Bioaccumulative potential No data available.12.4 Mobility in soil No data available.

12.5 Results of PBT & vPvB Assessment not required.

assessment

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Dispose of via an authorised waste disposal contractor to an approved waste disposal site, observing all local and

national regulations.

Contaminated Packaging Wash out containers with water.

Section 14. Transport Information

14.1 UN Number 1494

14.2 Proper Shipping Name Sodium bromate

14.3 Transport classes

UN classification 5.1
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 50
Tunnel Restriction Code E

14.4 Packing Group II

14.5 Environment hazards See section 12.

14.6 Special precautions for No special precautions required.

user

14.7 Transport in bulk Not transported in bulk.



Section 15. Regulatory Information

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

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

Classification Oxidising solid, category 1; Acute toxicity, category 4 (oral); Skin corrosion/irritation, category 2; Serious eye

damage/irritation, category 2; Germ cell mutagenicity, category 2; Carcinogenicity, category 1B; Spec target organ

tox - single, category 3

Signal word Danger

Hazard Pictograms







Hazard Statements H271, H302, H315, H319, H341, H350, H335

May cause fire or explosion; strong oxidizer. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Suspected of causing genetic defects. May cause cancer. May cause respiratory irritation.

Precautionary Statements P210, P221, P283, P264, P305+P351+P338, P370+P380+P375

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Take any precaution to avoid mixing with combustibles... Wear fire/flame resistant/retardant clothing. Wash thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.

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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