CAS-No.: 13465-95-7 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

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

Product identifier

Product form : Substance

EC Index-No. : 017-007-00-X EC-No. : 236-710-4 CAS-No. : 13465-95-7 Product code : 01711 Formula : BaCl2O8

Chemical structure

 $Ba(ClO_4)_2$

Synonyms : Barium diperchlorate

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

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

Details of the supplier of the safety data sheet

Labogens Fine Chem Industries 1st Floor, Above Bank of India, Guru Vihar, Rahon Road, Ludhiana Pb. (141007) +91 9316777775, +91 7707855700

sales@labogens.com - www.Labogens.com

Emergency telephone number

Emergency number : +91 7707855700 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

Classification of the substance or mixture

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

Oxidising Solids, H271

Category 1

H332

Acute toxicity (inhal.),

Category 4

Acute toxicity (oral), H302

Category 4

Full text of hazard classes and H-statements : see section 16

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Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

O; R9 Xn; R20/22

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) : H271 - May cause fire or explosion; strong oxidiser.

H302+H332 - Harmful if swallowed or if inhaled

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P220 - Keep/Store away from clothing, combustible materials.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : BARIUM PERCHLORATE ANHYDROUS EXTRA PURE

CAS-No. : 13465-95-7 EC-No. : 236-710-4 EC Index-No. : 017-007-00-X

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

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep

at rest in a position comfortable for breathing

First-aid measures after skin contact : Wash with plenty of water/.... Get immediate medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.

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

Symptoms/effects after inhalation : Harmful if inhaled.
Symptoms/effects 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 : Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : May cause fire or explosion; strong oxidiser.

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing

risk of burns and injuries.

5.3. Advice for firefighters

Firefighting instructions : In case of major fire and large quantities: Evacuate area. Fight fire remotely due to

the risk of explosion.

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

General measures : No open flames. No smoking.

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 : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as

possible. On land, sweep or shovel into suitable containers.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Hazardous waste due to potential risk of explosion.

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Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe vapours. Take precautionary

measures against static discharge. Provide good ventilation in process area to

prevent formation of vapour.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed

areas with mild soap and water before eating, drinking or smoking and when leaving

work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Keep in fireproof place. Keep container tightly closed.

Incompatible materials : Heat sources. combustible materials.

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

Personal protective equipment : Wear fire/flame resistant/retardant clothing.

Hand protection : Protective gloves

Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing

Respiratory protection : [In case of inadequate ventilation] wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Colour : White to off white.

Odour : odourless.

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 505 °C

Freezing point : No data available

Boiling point : No data available

Flash point : 21 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

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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 : 0.908 g/cm³

Solubility : Water: Soluble in water

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : The substance or mixture is classified as oxidizing with the subcategory 1. May

cause fire or explosion; strong oxidiser.

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

May cause fire or explosion; strong oxidiser.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Heat. Sparks. Open flame.

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 : Inhalation: Harmful if inhaled. Oral: Harmful if swallowed.

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

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Reproductive toxicity : Not classified STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

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 hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information : Hazardous waste due to potential risk of explosion.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR) : 1447 UN-No. (IMDG) : 1447 UN-No. (IATA) : 1447

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UN-No. (ADN) : 1447 UN-No. (RID) : 1447

14.2. UN proper shipping name

Proper Shipping Name (ADR) : BARIUM PERCHLORATE, SOLID Proper Shipping Name (IMDG) : BARIUM PERCHLORATE, SOLID

Proper Shipping Name (IATA) : Barium perchlorate, solid

Proper Shipping Name (ADN) : BARIUM PERCHLORATE, SOLID Proper Shipping Name (RID) : BARIUM PERCHLORATE, SOLID

Transport document description (ADR) : UN 1447 BARIUM PERCHLORATE, SOLID, 5.1 (6.1), II, (E) Transport document description (IMDG) : UN 1447 BARIUM PERCHLORATE, SOLID, 5.1 (6.1), II

Transport document description (IATA) : UN 1447 Barium perchlorate, solid, 5.1, II

Transport document description (ADN) : UN 1447 BARIUM PERCHLORATE, SOLID, 5.1 (6.1), II Transport document description (RID) : UN 1447 BARIUM PERCHLORATE, SOLID, 5.1 (6.1), II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 5.1 (6.1)
Danger labels (ADR) : 5.1, 6.1



IMDG

Transport hazard class(es) (IMDG) : 5.1 (6.1)
Danger labels (IMDG) : 5.1, 6.1



IATA

Transport hazard class(es) (IATA) : 5.1 (6.1) Hazard labels (IATA) : 5.1, 6.1



ADN

Transport hazard class(es) (ADN) : 5.1 (6.1)
Danger labels (ADN) : 5.1, 6.1



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RID

Transport hazard class(es) (RID) : 5.1 (6.1)
Danger labels (RID) : 5.1, 6.1



14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
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) : OT2
Limited quantities (ADR) : 1kg
Excepted quantities (ADR) : E2

Packing instructions (ADR) : P002, IBC06

Mixed packing provisions (ADR) : MP2
Portable tank and bulk container : T3

instructions (ADR)

Portable tank and bulk container special

provisions (ADR)

Tank code (ADR) : SGAN
Tank special provisions (ADR) : TU3
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Special provisions for carriage - Packages : V11

(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

: CV24, CV28

: TP33

Special provisions for carriage - Operation : S23

(ADR)

Hazard identification number (Kemler No.) : 56

Orange plates

56 1447

Tunnel restriction code (ADR) : E EAC code : 1Y

- Transport by sea

Limited quantities (IMDG) : 1 kg
Excepted quantities (IMDG) : E2

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Packing instructions (IMDG) · P002 IBC packing instructions (IMDG) : IBC06 IBC special provisions (IMDG) : B21 Tank instructions (IMDG) : T3 Tank special provisions (IMDG) : TP33 : F-H EmS-No. (Fire) : S-Q EmS-No. (Spillage) Stowage category (IMDG) : A

Segregation (IMDG) : SG38, SG49

Properties and observations (IMDG) : White crystals or powder, soluble in water. Reacts vigorously with sulphuric acid.

Reacts fiercely with cyanides when heated or by friction. May form explosive

mixtures with combustible material, powdered metals or ammonium

compounds. These mixtures are sensitive to friction and are liable to ignite. When involved in a fire may cause an explosion. Toxic if swallowed, by skin contact or by

dust inhalation.

MFAG-No : 141

- Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y543
PCA limited quantity max net quantity : 1kg

(IATA)

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) : 5P

- Inland waterway transport

Classification code (ADN) : OT2
Special provisions (ADN) : 802
Limited quantities (ADN) : 1 kg
Excepted quantities (ADN) : E2
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 2

- Rail transport

Classification code (RID) : OT2 Excepted quantities (RID) : E2

Packing instructions (RID) : P002, IBC06

Mixed packing provisions (RID) : MP2
Portable tank and bulk container : T3

instructions (RID)

Portable tank and bulk container special

provisions (RID)

Tank codes for RID tanks (RID) : SGAN
Special provisions for RID tanks (RID) : TU3
Transport category (RID) : 2
Special provisions for carriage – Packages : W11

(RID)

Special provisions for carriage - Loading,

unloading and handling (RID)

: CW24, CW28

: TP33

Colis express (express parcels) (RID) : CE10 Hazard identification number (RID) : 56

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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

BARIUM PERCHLORATE ANHYDROUS EXTRA PURE is not on the REACH Candidate List BARIUM PERCHLORATE ANHYDROUS EXTRA PURE is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed : The substance is not listed : The substance is not listed

voortplanting giftige stoffen – Borstvoeding NIET-limitatieve lijst van voor de

voortplanting giftige stoffen –

Vruchtbaarheid

: The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen - Ontwikkeling

: The substance is not listed

Denmark

Class for fire hazard : Class I-1 Store unit : 1 liter

Classification remarks : F < Ox. Sol. 1>; Emergency management guidelines for the storage of flammable

liquids must be followed

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-statements:

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Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Ox. Sol. 1	Oxidising Solids, Category 1
H271	May cause fire or explosion; strong oxidiser.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
R20/22	Harmful by inhalation and if swallowed
R9	Explosive when mixed with combustible material
0	Oxidising
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

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