CAS-No.: 7791-28-8 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1.	Product identifier		
Product form		: Substance	
		:	
CAS-No.		: 7791-28-8	
Product	t code	: 01650	
Chemic	al structure	: BaBr ₂	• 2H ₂ O

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

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (inhal.), H332 Category 4 Acute toxicity (oral), H302 Category 4

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

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

Xn; R20 Xn; R22 Full text of R-phrases: see section 16

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Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (EC) N	lo. 1272/2008 [CLP]
Hazard pictograms (CLP)	GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H302+H332 - Harmful if swallowed or if inhaled
Precautionary statements (CLP)	 P261 - Avoid breathing vapours, dust, fume, gas. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

2.3.	Other hazards	
No additional information available		
SECT	ON 3: Composition/information on ingredients	
31	Substances	
3.1. Name	Substances : BARIUM BROMIDE Extra Pure	

: 7791-28-8

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

3.2.	Mixtures		
Not ap	olicable		
• •			
SECTI	ON 4: First aid measures		
4.4			
4.1.	Description of first aid measures	S	
First-ai	d 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-ai	d 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 ingestion : Swallowing a small quantity of this material will result in serious health hazard.

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

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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	
No additional information available		
5.3. Advice for firefighters		
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.	
SECTION 6: Accidental release measures	5	
6.1. Personal precautions, protective	e equipment and emergency procedures	
6.1.1. For non-emergency personnel	1	
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 contain	nment 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		
Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe vapours. Avoid dust formation.	
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		
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.	
7.3. Specific end use(s)		
No additional information available		
SECTION 8: Exposure controls/personal	protection	
8.1. Control parameters		

No additional information available

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830		
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	: [In case of inadequate ventilation] wear respiratory protection.	
SECTION 9: Physical and chemical properties		
9.1. Information on basic physical a		
Physical state	: Solid	
Colour	: White powder.	
Odour	: No data available	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
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 Solubility	: 3.58 g/cm³ : 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	: No data available	

: No data available

9.2. Other information

No additional information available

Explosive limits

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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 reaction	ons	
No additional information available		
10.4. Conditions to avoid		
Direct sunlight. Air contact. Moisture.		
U U		
10.5. Incompatible materials		
No additional information available		
40.C Usersulava de composition pro-	ducto	
10.6. Hazardous decomposition proc No additional information available	JUCIS	
SECTION 11: Toxicological information		
11.1. Information on toxicological ef	fects	
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	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
A		
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		

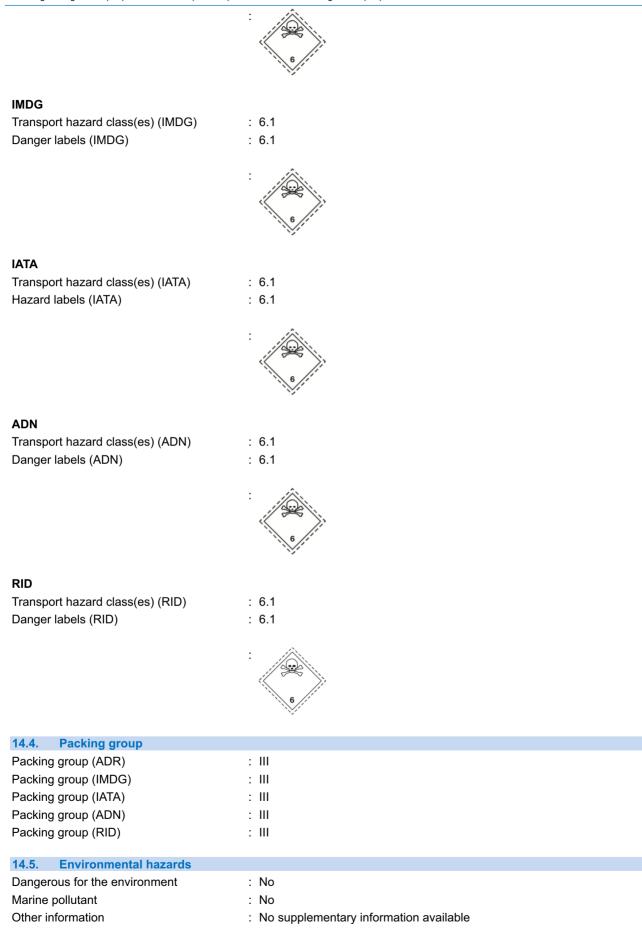
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40.0 Development of the second shifts	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assess	ment
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	: Dispose of contents/container to hazardous or special waste collection point, in
recommendations	accordance with local, regional, national and/or international regulation.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA	/ ADN
14.1. UN number	. 1501
UN-No. (ADR)	: 1564
UN-No. (IMDG)	: 1564 : 1564
UN-No. (IATA)	: 1564
UN-No. (ADN)	: 1564
UN-No. (RID)	. 1504
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: BARIUM COMPOUND, N.O.S.
Proper Shipping Name (IMDG)	: BARIUM COMPOUND, N.O.S.
Proper Shipping Name (IATA)	: Barium compound, n.o.s.
Proper Shipping Name (ADN)	: BARIUM COMPOUND, N.O.S.
Proper Shipping Name (RID)	: BARIUM COMPOUND, N.O.S.
Transport document description (ADR)	: UN 1564 BARIUM COMPOUND, N.O.S., 6.1, III, (E)
Transport document description (IMDG)	: UN 1564 BARIUM COMPOUND, N.O.S., 6.1, III
Transport document description (IATA)	: UN 1564 Barium compound, n.o.s., 6.1, III
Transport document description (ADN)	: UN 1564 BARIUM COMPOUND, N.O.S., 6.1, III
Transport document description (RID)	: UN 1564 BARIUM COMPOUND, N.O.S., 6.1, III
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 6.1
Danger labels (ADR)	: 6.1

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14.6. Special precautions for user

- Overland transport	
Classification code (ADR)	: T5
Special provisions (ADR)	: 177, 274, 513, 587
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAH, L4BH
Tank special provisions (ADR)	: TU15, TE19
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Bulk (ADR)	: VC1, VC2, AP7
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	: S9
Hazard identification number (Kemler No.)	: 60
Orange plates	60 1564
Tunnel restriction code (ADR)	: E
EAC code	: 2Z
- Transport by sea	
Special provisions (IMDG)	: 177, 223, 274
Packing instructions (IMDG)	: P002, LP02
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: White powder, lumps or crystals. Toxic if swallowed, by skin contact or by inhalation.
MFAG-No	: 154
Air transport	
- Air transport PCA Excepted quantities (IATA)	: E1
PCA Excepted quantities (IATA) PCA Limited quantities (IATA)	: Y645
PCA limited quantity max net quantity	: 10kg
(IATA)	
PCA packing instructions (IATA)	: 670
PCA max net quantity (IATA)	: 100kg
CAO packing instructions (IATA)	: 677
CAO max net quantity (IATA)	: 200kg

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Special provisions (IATA)	: A3, A82
ERG code (IATA)	: 6L
- Inland waterway transport	
Classification code (ADN)	: T5
Special provisions (ADN)	: 177, 274, 513, 587, 802
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: T5
Special provisions (RID)	: 177, 274, 513, 587
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P002, IBC08, LP02, R001
Special packing provisions (RID)	: B3
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T1
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAH, L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Bulk (RID)	: VC1, VC2, AP7
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 60

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 BROMIDE Extra Pure is not on the REACH Candidate List BARIUM BROMIDE Extra Pure is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

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

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Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
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	
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:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
H302	Harmful if swallowed.
H332	Harmful if inhaled.
R20	Harmful by inhalation
R22	Harmful if swallowed
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