SECTION 1: Identification of the substance/mixture and of the company/undertaking 11 Product identifiers Product name : Barium Chloride Dihydrate CAS-No. : 10326-27-9 12 Relevant identified uses of the substance or mixture and uses advised against Identified uses : Laboratory chemicals, Industrial & for professional use only. 13 Details of the supplier of the safety data sheet Company : Pallav Chemicals & Solvents Pvt. Ltd 253, Shiv Shakti Industrial Estate, Opp Mittal Estate Andheri Kurla Road, Andheri (E), Mumbai - 400050 INDIA Telephone : +91 22 4928 4000 Email : sales@pallavchemicals.com SECTION 2: Hazards identification Classification of the substance or mixture Classification according to Regulation (EC) No 127/2008 Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 4), H332 For the full text of the H-Statements mentioned in this Section, see Section 16. Labelling according Regulation (EC) No 1272/2008 Pittogram	Barium Chloride Dihydrate CAS No 10326-27-9		MATERIAL SAFETY DATA SHEET SDS/MSDS
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Labelling according Regulation (EC) No 1272/2008	For the full text of the	H-Statements mentioned in t	his Section, see Section 16.
	2.2 Label elements		
	• •	Regulation (EC) No 1272/2	008

Signal word

Danger

Hazard statement(s) H301 H332

Toxic if swallowed. Harmful if inhaled. Precautionary statement(s)Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.P261Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.P301 + P330 + P331 + P310IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately
call a POISON CENTER or doctor/ physician.Supplemental Hazard
Statementsnone

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	: 2 · 2H2O
Molecular weight	: 244,26 g/mol
CAS-No.	: 10326-27-9
EC-No.	: 233-788-1
Index-No.	: 056-004-00-8

Hazardous ingredien	ts according to Regulatio	n (EC) No 1272/2008	
Component		Classification	Concentration
Barium chloride dihy	drate		
CAS-No.	10326-27-9	Acute Tox. 3; Acute Tox. 4;	<= 100 %
EC-No.	233-788-1	H301, H332	
Index-No.	056-004-00-8		

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture Hydrogen chloride gas, Barium oxide
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
- **6.2** Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
- **6.3** Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- **6.4 Reference to other sections** For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

- **7.2** Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
- **7.3** Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance		Form: crystalline Colour: white
b) Odour		No data available
c) Odour Thres	shold	No data available
d) pH		5,0 - 8,0 at 50 g/l at 25 °C
e) Melting point point	t/freezing	No data available
f) Initial boiling boiling rang	•	No data available
g) Flash point		Not applicable
h) Evaporation	rate	No data available
i) Flammability	y (solid, gas)	No data available
j) Upper/lower flammability explosive lir	or or	No data available
k) Vapour pres	sure	No data available
I) Vapour den	sity	No data available
m) Relative den	sity	3,100 g/cm3
n) Water solubi	ility	No data available
o) Partition coe	fficient: n-	No data available
octanol/water		
p) Auto-ignition temperature		No data available
q) Decompositi temperature		No data available
r) Viscosity		No data available
s) Explosive pr	operties	No data available
t) Oxidizing pr	operties	No data available
Other safety information		
No data available		

SECTION 10: Stability and reactivity

10.1 Reactivity

9.2

- No data available
- **10.2 Chemical stability** Stable under recommended storage conditions.

- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** No data available
- **10.5 Incompatible materials** Strong oxidizing agents
- **10.6 Hazardous decomposition products** Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

No data available

Inhalation: No data available

LD50 Intraperitoneal - Mouse - 51 mg/kg

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitisation No data available

Germ cell mutagenicity No data available

Carcinogenicity

This product is or contains a component that is probably not carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

Additional Information

RTECS: CQ8751000

Vomiting, Diarrhoea, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADR/	RID: 1564	IMDG: 1564	IATA: 1564
ADR/ IMDO	14.2 UN proper shipping nameADR/RID:BARIUM COMPOUND, N.O.S. (Barium chloride dihydrate)IMDG:BARIUM COMPOUND, N.O.S. (Barium chloride dihydrate)IATA:Barium compound, n.o.s. (Barium chloride dihydrate)		
	port hazard class(es) RID: 6.1	IMDG: 6.1	IATA: 6.1
14.4 Packa ADR/	ging group RID: III	IMDG: III	IATA: III
	onmental hazards RID: no	IMDG Marine pollutant: no	IATA: no
•	al precautions for user ata available		

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

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

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H301	Toxic if swallowed.

H332 Harmful if inhaled.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Pallav Chemicals & Solvents Pvt. Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.pallavchemicals.com for additional terms and conditions of sale.