



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Barium Chloride, Dihydrate**

PRODUCT NUMBER: 1186

CAS NUMBER: 10326-27-9

SYNONYMS: Barium Dichloride Dihydrate

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

H301	Toxic if swallowed.
H332	Harmful if inhaled.

Precautionary Phrases.

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P405	Store locked up.

HMIS CLASSIFICATION:

Health: 2 Fire: 0 Physical Hazard: 0

NFPA RATING:

Health: 2 Flammability: 0 Reactivity Hazard: 0

EYE CONTACT: May cause eye irritation.

SKIN CONTACT: May cause skin irritation. May be harmful if absorbed through skin.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

INHALATION: May cause respiratory tract irritation. Toxic if inhaled.

INGESTION: Toxic if swallowed.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $\text{BaCl}_2 \cdot 2\text{H}_2\text{O}$

Molecular Weight: 244.26

CHEMICAL NAME	CAS#	%
Barium Chloride, Dihydrate	10326-27-9	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. Give oxygen if deemed necessary. If not breathing administer CPR. Get emergency care immediately.

INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Product is not flammable

AUTO IGNITION TEMPERATURE: No data

EXPLOSION LIMITS: No data

EXTINGUISHING MEDIUM: Use appropriate media for adjacent fire. Cool containers with water. Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Hydrogen chloride gas and barium oxide.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear appropriate respiratory and protective equipment to avoid all exposure to with the material. Ensure adequate ventilation. Avoid dust formation.

ENVIRONMENTAL PRECAUTIONS: Do not let enter drains or allow to be released into environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Pick up and arrange disposal without creating dust. Sweep up and shovel. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear approved personal protective equipment. Ensure adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.

CONDITIONS FOR SAFE STORAGE: Store in a cool, dry, and well-ventilated area. Keep away from incompatible materials.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Barium	0.5 mg/m ³	TLV	ACGIH
	0.5 mg/m ³	PEL	OSHA
	0.5 mg/m ³	REL	NIOSH

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

EYE PROTECTION: Always wear approved safety glasses with side shields, or safety goggles, face shield when handling a chemical substance in the laboratory.

SKIN PROTECTION: Wear nitrile or rubber gloves, apron, or lab coat.

VENTILATION: Handle in an efficient chemical fume hood.

RESPIRATOR: Approved NIOSH dust respirator.

ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers, and washing facilities accessible to areas of use and handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White solid

MOLECULAR WEIGHT: 244.26

BOILING POINT: 1560° C

MELTING POINT: 963° C

SPECIFIC GRAVITY: 3.86

VAPOR PRESSURE: Not applicable

SOLUBILITY IN WATER: Soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Heat and moisture

INCOMPATIBILITY: Strong oxidizing agents

DECOMPOSITION PRODUCTS: Hydrogen chloride gas and barium oxide

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Intraperitoneal – mouse – 51 mg/kg

CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified as a confirmed carcinogen.

MUTAGENIC EFFECTS: No data

TETRAOGENIC EFFECTS: No data

RTECS: CQ88751000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

Ecotoxicity: LC50 > 152 mg/l/96h (Danio rerio) Freshwater Fish

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

DOT (US):	UN1564	IATA/IMDG:	UN1564
	Barium compounds, n.o.s. (Barium chloride dihydrate)		Barium compound, n.o.s. (Barium chloride dihydrate)
	Class 6.1		Class 6.1
	PG III		PG III

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA

SARA (TITLE 313): Barium chloride dehydrate

MASSACHUSETTS RIGHT TO KNOW COMPONENTS: No components are subject to the Massachusetts Right to Know Act

PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Barium chloride dihydrate

NEW JERSEY RIGHT TO KNOW COMPONENTS: Barium chloride dehydrate

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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