

GHS Safety Data Sheet

SDS No. : BAH01PAEG

Date Issued: 2009/06/19
Last updated: 2015/07/30

Section 1. Identification of the substance or mixture and of the supplier

1.1 Product Information

Product name: BaF₂ Barium(II) fluoride

Product number:	Purity	Form	Size (mm) or Shape
BAH08XB	99 %(2N)	solid	—
BAH09XB	99.95 % (3N5)	solid	—
BAH18XB	99.9 % (3N)	solid	—
—	99.9 % (3N), others	rod/tablet	Various shapes, Various sizes

1.2 Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd

1. 1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284

Phone: +81-49-284-1511 Fax: +81-49-284-1351

Emergency Phone : +81-49-284-1511

Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
Acute toxicity(oral) : Category 3 Serious eye damage/eye irritation : Category 2A-2B Reproductive toxicity : Category 2 Specific target organ toxicity, single exposure : Category 3 repeated exposure : Category 1	No data available	Flammable solids : Not classified Pyrophoric solids : Not classified Self-heating substances and mixtures : Not classified Substances and mixtures which, in contact with water, emit flammable gases : Not classified

GHS Label: T C



Pictograms or symbols

Warning word: DANGER

Hazard information	Description of precaution
Toxic if swallowed Causes serious eye irritation Suspected of damaging fertility or the unborn child May cause respiratory irritation Causes damage to organs (Bone) through prolonged or repeated exposure	Obtain special instructions. Read and understand all safety precautions before handling. Wear protective gloves/protective clothing/eye protection/respiratory protection/face protection during handling. Avoid breathing dust/mist/gas/fume/vapors/spray. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. Protect from sunlight. Store in a cool, dry and well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/ container in accordance with local/national regulations.

Additional hazard information :

In case of fire, may liberate toxic gases/ fume.

With respect to additional hazard information, see Section 11.

Section 3. Composition / information on ingredients

Chemical or common name:	Barium(II) fluoride
Chemical formula:	BaF ₂
Single Substance or Compound:	Single substance
Composition:	100%
CAS #:	7787-32-8
RTECS#:	CQ9100000
TSCA inventory:	listed
EINECS:	2321080

Section 4. First aid measures

Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.
Skin contact:	Promptly flush contaminated skin with soap or mild detergent and water. Contact physician if irritation continues.
Inhalation:	Remove the exposed person immediately and provide fresh air. Get medical attention.
Ingestion:	Rinse mouth and throat with water. Get medical attention immediately.

Section 5. Fire fighting measures

Extinguishing media:	Use media appropriate for surrounding fire.
Fire fighting:	This product cannot catch fire. Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire.
Specific hazards arising from the chemical:	In case of fire, may liberate toxic gases/ fume.

Section 6. Accidental release measures

Personal Precautions:	Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its dusts.
Environmental hazard precautions:	Shut off leak if without risk. Prevent flow out to river, etc. so as not to badly affect.
Method for containment and cleaning up:	Avoid unnecessary contacts with spills. Indoor leakage: Ventilate as much as possible until the cleaning is completed. Outdoor leakage: Work from the windward and evacuate the leeward crowd. Gather up, pack in closed DOT-approved waste container as much as possible. Carefully collect remnant and move to a safe place.

Section 7. Handling and storage**Precautions to be taken in handling:**

Safe handling:	Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen. Avoid prolonged or repeated exposure.
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Precautions to be taken in storage:

General precautions:	Store the material in a sealed container.
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Store in a cool, dry, well ventilated and dark place away from incompatible materials.

Section 8. Exposure controls / personal protection

Exposure guideline:	ACGIH (2013) : Fluorides TLV-TWA 2.5mg/m ³ (as F) OSHA (2006) : Fluorides PEL-TWA 2.5mg/m ³ (as F)
Facility measures:	Local ventilation of closed work room or total proper ventilation to prevent inhalation.
Protective ware:	Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, face shields, protective gloves. Wear appropriate NIOSH/MSHA-approved respirator, air-supplied respirator, safety goggles, face shields, protective gloves, protective clothing, apron, including boots.

Section 9. Physical and chemical properties

Color and Form:	White solid, odorless.
Chemical formula:	BaF ₂
Formula weight:	175.3
Melting point:	1353 °C
Boiling point:	2260 °C
Density:	4.893 g/cm ³
Water solubility	Slightly soluble
Flammable:	non-flammable substance
Oxidation:	No data available

Section 10. Stability and reactivity

Stability:	Stable in closed container.
Reactivity	
Incompatibility:	Acids
Condition to avoid:	Heats
Hazardous decomposition products.:	Fluorine ,Hydrogen fluoride, Barium oxides

Section 11. Toxicological information

Acute toxicity(Oral) :	GHS : Category 3 ; Toxic if swallowed BaF ₂ oral rat LD ₅₀ = 250 mg/kg
Acute toxicity(Dermal, inhalation) :	GHS : No data available
Skin corrosive / irritation:	GHS : No data available
Serious eyes damage / eye irritation:	GHS : Category 2A-2B ; Causes serious eye irritation
Respiratory sensitization:	GHS : No data available
Skin sensitization:	GHS : No data available
Germ cell mutagenicity:	GHS : No data available
Carcinogenicity:	GHS : No data available ACGIH(2013) Fluorides : A4 (A4: Not classifiable as a Human Carcinogen)
Reproductive toxicity:	GHS : Category 2 ; Suspected of damaging fertility or the unborn child
Specific target organ toxicity	

—single exposure: GHS : Category 3 ; May cause respiratory irritation

Specific target organ toxicity
 —repeated exposure: GHS : Category 1 ;
 Causes damage to organs(bone) through prolonged or repeated exposure

Aspiration hazard: GHS : No data available

Other cautions: Mechanical stimulation by dust affects eyes, skin and respiratory system

Section 12. Ecological information

Ecotoxicity:

Hazards to the aquatic environment

—acute toxicity: GHS : No data available

—chronic toxicity: GHS : No data available

Hazardous the ozone layer: GHS : No data available

No Freon or Halon

Fish toxicity: No data available

Degradability: No data available

Bioaccumulative potential: Ba: biological half-life 65 day,
 Rate of absorption Oral=0.05 Respiratory tract=0.28
 F: biological half-life 808 day,
 Rate of absorption Oral=1.0 Respiratory tract=0.75

Mobility in soil: No data available

Section 13. Disposal considerations

Disposal method: User of the product should contract with the local government or licensed
 'Industrial Waste Haulers' for disposal of waste.

Section 14. Transport information

UN number: 1564

IATA shipping name: Barium compound, n.o.s.

IATA classification: Hazardous Class 6.1 (Toxic substances)

IATA packing group: III

HS code: 2826.19

Marine pollution: None

Section 15. Regulatory information

TSCA inventory : listed.

Please refer to any other local / national measures that may be relevant.

Section 16. Other information

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.