

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Beryllium fluoride

1. Product and Company Identification

Trade Name: Beryllium fluoride

Chemical Formula: BeF₂

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shannxi
Zip Code: 710077
Country: China

Tel #: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H301: Toxic if swallowed

H315: Causes skin irritation

H317: May cause an allergic skin reaction H319: Causes serious eye irritation

H330: Fatal if inhaled

H335: May cause respiratory irritation

H350: May cause cancer

H372: Causes damage to organs through prolonged or repeated exposure

Precautionary Statements: P260: Do not breathe dust/fume/gas/mist/vapors/spray

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 4
Flammability: 0
Physical: 1

3. Composition

Chemical Family: Inorganic compound Additional Names: Beryllium difluoride

Bervllium fluoride (BeF2):

Percentage: 100 wt% CAS #: 7787-49-7 EC #: 232-118-5

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: None

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult. Keep patient

warm. Seek immediate medical attention.

Ingestion: Seek immediate medical attention.

Skin: Immediately wash affected area with mild soap and water. Remove any

contaminated clothing. Seek immediate medical attention.

Eyes: Flush eyes with water, blinking often for several minutes. Remove contact

lenses if present and easy to do. Continue rinsing. Seek immediate medical

attention.

5. Firefighting Measures

Flammability: Non-flammable

Extinguishing Media: No special restrictions – use suitable extinguishing agent for surrounding

material and type of fire.

Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective clothing to

prevent contact with skin and eyes. See section 10 for decomposition products.

6. Accidental Release Measures

If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in special

protection information. Keep unprotected persons away. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to

raise dust.

Environmental Precautions: Isolate runoff to prevent environmental pollution.

7. Handling and Storage

Handling Conditions: Wash thoroughly after handling. Do not breathe dust. Do not get in eyes, on

skin, or on clothing.

Storage Conditions: Store in a cool dry place in a tightly sealed container. Store apart from materials

and conditions listed in section 10.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before eating and

smoking. Do not blow dust off clothing or skin with compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below threshold

limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 0.002 mg/m3 as Be, long-term value

Threshold Limit Value: 0.00005 mg/m3 as Be, long-term value (inhalable fraction)

Special Equipment: Properly operating chemical fume hood designed for hazardous chemicals and

having an average face velocity of at least 100 feet per minute.

Respiratory Protection: Dust Respirator

Protective Gloves: Nitrile rubber gloves with minimum thickness of 0.11 mm

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long sleeves/pants.

9. Physical and Chemical Characteristics

Color Colorless, light grey

Powder Form: Odor: **Odorless** Water Solubility: Soluble **Boiling Point:** N/A Melting Point: 545 ℃ Flash Point: N/A**Autoignition Temperature:** N/A Density: 1.899 g/cc Molecular weight: 47.01 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents, strong acids

Incompatible Conditions: None

Hazardous Decomposition Products: Metal oxide fume, Gaseous hydrogen fluoride (HF), Beryllium oxide

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye irritation

Skin: Causes skin irritation. May cause an allergic skin reaction.

Toxic if swallowed. Ingestion: Inhalation: Fatal if inhaled.

Chronic: May cause cancer. Acute exposure to beryllium may cause dermatitis,

chronic skin ulcers, rhinitis, nasopharyngitis, epistaxis, bronchitis,

pneumonitis possibly fatal, fever, rales, dyspnea and substernal pain. chronic exposure causes a delayed form of lung disease which may be delayed for five years or more after exposure stops. Symptoms include coughing, shortness of breath, loss of appetite, weight loss and fatigue, cyanosis is common with elevated pulse and respiratory rates. This disease may progress to death from cardiac or respiratory failure. Fluorides may cause salivation, nausea, vomiting, diarrhea and abdominal pain, followed by weakness, tremors, shallow respiration, convulsions and coma. May cause brain and kidney damage. Chronic fluoride poisoning can cause severe bone

changes, loss of weight, anorexia, anemia and dental defects.

Signs & Symptoms: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing,

tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or

flushing

Aggravated Medical Conditions: N/A

Median Lethal Dose: 98 mg/kg for rat by mouth

EPA-B2: Probable human carcinogen, sufficient evidence from animal studies; Carcinogen:

inadequate evidence or no data from epidemiologic studies.

IARC-1: Carcinogenic to humans: sufficient evidence of carcinogenicity

NTP-R: Reasonably anticipated to be a carcinogen: limited evidence from studies in

humans or sufficient evidence from studies in experimental animals.

ACGIH A1: Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical evidence in, exposed humans.

12. Ecological Information

Aquatic Toxicity: N/A Persistent Bioaccumulation Toxicity: N/A Very Persistent, Very Bioaccumulative: N/A

Notes: Do not allow undiluted product or large quantities to reach ground water, water

course or sewage system

Do not allow material to be released to the environment without proper

governmental permits.

Danger to drinking if even small quantities leak into the ground

Also poisonous for fish and plankton in water bodies

Toxic to aquatic life

Avoid transfer into the environment

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation



Hazard Class: 6.1 Toxic substances

Packing Group:

UN Number: UN1566

Proper Shipping Name: Beryllium compounds, n.o.s. (Beryllium fluoride)

15. l	Regul	latory	Informa	ition
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Sec 302 Extremely Hazardous:N/ASec 304 Reportable Quantities:1 lbSec 313 Toxic Chemicals:Yes

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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