Beryllium fluoride: sc-263025

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Beryllium fluoride
Catalog Number: sc-263025

Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, CA 95060
800.457.3801 or 831.457.3800

Emergency: ChemWatch
Within the US & Canada: 877–715–9305
Outside the US & Canada: +800 2436 2255 (1–800-CHEMCALL) or call +613 9573 3112

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: T: R49; T: R24/25; T+: R26; C: R34; T: R48/23; N: R51/53

Classification under CLP: Acute Tox. 3: H311; Carc. 1A: H350; Acute Tox. 1: H330; Aquatic Chronic 2: H411; Skin Corr. 1B: H314; STOT RE 1: H372; Acute Tox. 3: H301

Most important adverse effects: May cause cancer by inhalation. Toxic in contact with skin and if swallowed. Very toxic by inhalation. Causes burns. Toxic: danger of serious damage to health by prolonged exposure through inhalation. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Label elements under CLP:

Hazard statements

H301: Toxic if swallowed.
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H330: Fatal if inhaled.
H350: May cause cancer.
H372: Causes damage to organs through prolonged or repeated exposure.
H411: Toxic to aquatic life with long lasting effects.

Signal words:

Danger

Hazard pictograms:

GHS05: Corrosion
GHS06: Skull and crossbones
GHS08: Health hazard
GHS09: Environmental

Precautionary statements:

P201: Obtain special instructions before use.
P260: Do not breathe dust/fumes/gas/mist/vapors/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P284: Wear respiratory protection.
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+313: IF exposed or concerned: Get medical advice/attention.
P310: Immediately call a POISON CENTER or doctor.

Label elements under CHIP:

Hazard symbols: Very toxic.
Dangerous for the environment.

Risk phrases:

R49: May cause cancer by inhalation.
R24/25: Toxic in contact with skin and if swallowed.
R26: Very toxic by inhalation.
R34: Causes burns.
R48/23: Toxic: danger of serious damage to health by prolonged exposure through inhalation.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28: After contact with skin, wash immediately with plenty of.
S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.
S38: In case of insufficient ventilation, wear suitable respiratory equipment.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.
S63: In case of accident by inhalation, remove casualty to fresh air and keep at rest.

Precautionary phrases: Restricted to professional users.

2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

BERYLLIUM FLUORIDE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
-	7787-49-7	T: R49; T: R24/25; T+: R26; C: R34; T: R48/23; N: R51/53	Carc. 1A: H350; Acute Tox. 1: H330; Acute Tox. 3: H301+311; Aquatic Chronic 2: H411; Skin Corr. 1B: H314; STOT RE 1: H372	33.000%

Non-hazardous ingredients:

WATER

EINECS	CAS	CHIP Classification	CLP Classification	Percent
-	7732-18-5	-	-	67.000%

Component	*CAS#*	*EC#*	*MW*	*MF*
Beryllium fluoride	7787–49–7	-	47.01	BeF2

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a liter of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.
Eye contact: There may be severe pain. The eyes may water profusely.
Ingestion: There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.
Inhalation: There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be loss of consciousness.
Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Toxic. In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Notify the police and fire brigade immediately. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the
contaminated area with signs and prevent access to unauthorized personnel. Do not attempt to take action without suitable protective clothing – see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is exhaust ventilation of the area. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids. Desiccate at room temperature.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: Not applicable.

8.2. Exposure controls

Engineering measures: Ensure there is exhaust ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Safety glasses with side-shields. Ensure eye bath is on hand.

Skin protection: Impermeable protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Solution

9.2. Other information

Other information: Not applicable.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Flames.

10.5. Incompatible materials

Materials to avoid: Strong oxidizing agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant effects for mixture:

Effect	Route	Basis
Acute toxicity (toxic)	DRM ING	Hazardous: calculated
Acute toxicity (very toxic)	INH	Hazardous: calculated
Corrosivity	OPT INH DRM	Hazardous: calculated
Repeated dose toxicity	INH	Hazardous: calculated
Carcinogenicity	INH	Hazardous: calculated

Symptoms/routes of exposure

Skin contact: There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.

Eye contact: There may be severe pain. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be loss of consciousness.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity
Ecotoxicity values: Not applicable.
12.2. Persistence and degradability
Persistence and degradability: Not biodegradable.
12.3. Bioaccumulative potential
Bioaccumulative potential: Bioaccumulation potential.
12.4. Mobility in soil
Mobility: Readily absorbed into soil.
12.5. Results of PBT and vPvB assessment
PBT identification: This substance is not identified as a PBT substance.
12.6. Other adverse effects
Other adverse effects: Toxic to aquatic organisms. Toxic to soil organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods
Disposal operations: Transfer to a suitable container and arrange for collection by specialized disposal company.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number
UN number: UN1566
14.2. UN proper shipping name
Shipping name: BERYLLIUM COMPOUND, N.O.S. (Beryllium fluoride solution)
14.3. Transport hazard class(es)
Transport class: 6.1
14.4. Packing group
Packing group: II
14.5. Environmental hazards
Environmentally hazardous: Yes
Marine pollutant: No
14.6. Special precautions for user
Special precautions: No special precautions.
Tunnel code: D/E
Transport category: 2

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
15.2. Chemical Safety Assessment
Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture
by the supplier.

Section 16: Other information

Other information
Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.
* indicates text in the SDS which has changed since the last revision.
Phrases used in s.2 and 3:
H301: Toxic if swallowed.
H301+311: Toxic if swallowed or in contact with skin.
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H330: Fatal if inhaled.

H350: May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H372: Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H411: Toxic to aquatic life with long lasting effects.
R24/25: Toxic in contact with skin and if swallowed.
R26: Very toxic by inhalation.
R34: Causes burns.
R48/23: Toxic: danger of serious damage to health by prolonged exposure through inhalation.
R49: May cause cancer by inhalation.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

11/16/2012