

# SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

Version: 2022  
Date Updated: December 31, 2022

## SECTION 1. ----- PRODUCT AND COMPANY IDENTIFICATION -----

**Product Name** Fraser Broth Base  
**Product Code(s)** SG7288 / SG7289  
**Recommended Use** For Laboratory Research Use Only  
 Not for Human or Animal Drug Use

**Supplier** Bio Basic Asia Pacific Pte Ltd.  
**Address** 2 International Business Park Road  
 Strategy #01-04, Singapore 609930

**Telephone** (+65) 6954 2519  
 (+65) 6491 5938

**Email** sg@biobasic-asia.com

## SECTION 2. ----- HAZARDS IDENTIFICATION -----

**Classification of the substance or mixture**  
 Not a hazardous substance or mixture.

**GHS Label elements, including precautionary statements**  
 Not a hazardous substance or mixture.

**Hazards not otherwise classified (HNOC) or not covered by GHS** - none

## SECTION 3. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

Mixtures - Mixtures

Chemical Component	CAS-No.
Lithium Chloride	7447-41-8

## SECTION 4. ----- FIRST-AID MEASURES -----

**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 the 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 for several minutes. Immediate medical attention is not required.

**In case of eye contact**  
 Rinse out with plenty of water for at least 15 minutes. Remove contact lenses.

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

**Most important symptoms and effects, both acute and delayed**  
 The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

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

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## SECTION 5. ----- FIRE FIGHTING MEASURES -----

### **Suitable extinguishing media**

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

### **Special hazards arising from the substance or mixture**

Hydrogen chloride gas, Sodium oxides, Carbon Oxides, Potassium Oxides, Lithium Oxides.

### **Advice for firefighters**

Wear self-contained breathing apparatus for firefighting in the event of fire.

### **Further information**

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## SECTION 6. ----- ACCIDENTAL RELEASE MEASURES -----

### **Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

For personal protection see section 8.

### **Environmental precautions**

Do not let product enter drains.

### **Methods and materials for containment and cleaning up**

Cover drains. Soak up with inert absorbent material. Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### **Reference to other sections**

See section 12 and 13 for more information.

## SECTION 7. ----- HANDLING AND STORAGE -----

### **Precautions for safe handling**

For precautions see section 2.

### **Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry, cool and well-ventilated place. Hygroscopic, moisture sensitive.

Storage class (TRGS 510): 13: Non-Combustible Solids

### **Specific end use(s)**

Apart from the uses mentioned in section 1 no other specific uses are stipulated

## SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION -----

### **Control parameters**

### **Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

### **Exposure controls**

### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Ensure adequate ventilation, especially in confined areas.

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## Personal protective equipment

### Eye/face protection

Safety glasses with side-shields conforming to EN166. 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. contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

### Body protection

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

### Control of environmental exposure

No special environmental precautions are required.

## SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

### Information on basic physical and chemical properties

Appearance	Form: solid
Odour	No data available
Odour Threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available

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Oxidizing properties

No data available

**Other safety information**

No data available

**SECTION 10. -----STABILITY AND REACTIVITY -----**

**Reactivity**

No data available

**Chemical stability**

Stable under standard ambient conditions (room temperature).

**Possibility of hazardous reactions**

No data available

**Conditions to avoid**

No data available

**Incompatible materials**

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Sodium oxides  
In the event of fire: see section 5

**SECTION 11. ----- TOXICOLOGICAL INFORMATION -----**

**Mixture**

**Acute toxicity**

Oral: > 2,000 mg/kg

Inhalation: No data available

Dermal: No data available

Chemical Component	CAS-No.	LD50 Oral	LD50 Dermal	LC50 Inhalation
Lithium Chloride	7447-41-8	LD50: 526 mg/kg (Rat, Male)	LD50: > 2,000 mg/kg (Rat)	LC50: > 5.57 mg/l, 4h (Rat)

**Skin corrosion/irritation**

Mixture may cause severe skin irritation.

**Serious eye damage/eye irritation**

Mixture may cause eye irritation.

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

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**Aspiration hazard**

May be harmful if swallowed.

**Additional Information**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

**SECTION 12. ----- ECOLOGICAL INFORMATION -----**

**Toxicity**

Chemical Component	Fish	Daphnia and Other Aquatic Invertebrates	Algae/Aquatic Plants	Microorganisms
Lithium Chloride	LC50 (Oncorhynchus mykiss (rainbow trout)): 158 mg/l, 96 h; NOEC (Danio rerio (zebra fish)): 18 mg/l, 34d	EC50 (Daphnia magna (Water flea)): 249 mg/l, 48h; > 10.4 mg/l, 21d	ErC50 (Desmodesmus subspicatus (green algae)): 400 mg/l, 72 h	EC50 (activated sludge): 320.05 mg/l, 3 h

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

No data available

**SECTION 13. ----- DISPOSAL CONSIDERATIONS -----**

**Waste treatment methods**

**Product**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

**Contaminated packaging**

Dispose of as unused product in accordance with the national and local regulations.

**SECTION 14. ----- TRANSPORT INFORMATION -----**

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

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**SECTION 15. ----- REGULATORY INFORMATION -----**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

**SECTION 16. ----- OTHER INFORMATION -----**

Further information: no limited for paper copy, just for internal uses.  
For research use only. Not intended for human or animal diagnostic or therapeutic uses.

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**Issuing Date:** 31-Dec-2022

**End of SDS**