

Date Prepared: 07/11/2013

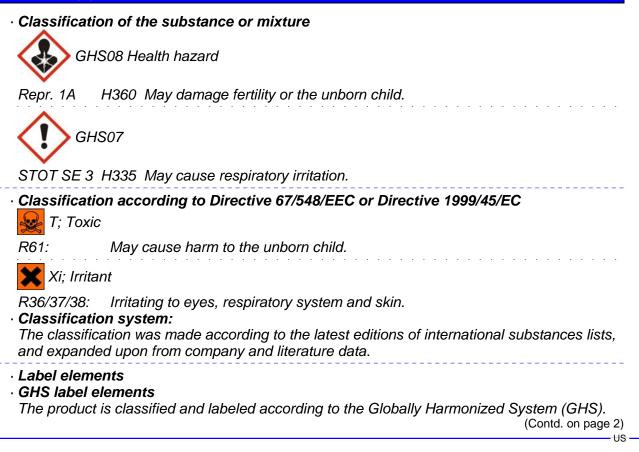
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1 Identification	
· Product Identifi · Product Name:	er Fraser Broth Base
· Catalog Numbe	
	ied uses of the substance or mixture and uses advised against nt information available.
	ne substance / the preparation In-vitro Diagnostics
· Details of the su	pplier of the safety data sheet
Manufacturer/S	
BD Diagnostic S	rstems
7 Loveton Circle	
Sparks, MD 2118	2

Telephone: (410) 771 - 0100 or (800) 638 – 8663 Email Address: Technical_Services@bd.com • Information Department: Technical Service

• Emergency telephone number: In case of a chemical emergency, spill, fire, exposure, or accident, contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

2 Hazard(s) identification





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Product Name: Fraser Broth Base (Contd. of page 1) Hazard pictograms GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: lithium chloride · Hazard statements H360 May damage fertility or the unborn child. H335 May cause respiratory irritation. · Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P281 Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. P271 Obtain special instructions before use. P201 P202 Do not handle until all safety precautions have been read and understood. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P308+P313 IF exposed or concerned: Get medical advice/attention. Store locked up. P405 P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local/regional/national/ international regulations. · NFPA ratings (scale 0-4) Health = 3Flammability = 0Reactivity = 0· HMIS ratings (scale 0-4) HEALTH 3 Health = 30 Flammability = 0FIRE **REACTIVITY** \bigcirc **Reactivity** = 0 · Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixture

· Description: Mixture consisting of the following components.

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		(Contd.	of page 2)
· Dangerous Compo	nents:		
CAS: 7647-14-5 EINECS: 231-598-3	sodium chloride		36.4%
CAS: 7558-79-4 EINECS: 231-448-7	sodium phosphate, dibasic	Xi R37	13.5%
CAS: 7447-41-8 EINECS: 231-212-3	lithium chloride	T R61; Xn R22; Xi R36/38	5.5%
· Additional informat	tion Risk phrases refer to section 15.		

4 First-aid measures

- · Description of first aid measures
- · General information Immediately remove contaminated clothing.
- After inhalation

In case of unconsciousness place patient on side position for transportation. Supply fresh air or oxygen; and immediately call for a doctor.

- After skin contact Immediately wash with water and soap and rinse thoroughly.
- After eye contact
- Rinse opened eye for 15 minutes under running water. Then consult a doctor.
- · After swallowing Call a doctor immediately.
- · Information for doctor
- *Most important symptoms and effects, both acute and delayed* No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents CO2, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture During heating or in case of fire toxic gases may be produced.
- · Advice for firefighters
- · Protective equipment: Use respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Use respiratory protective device.
- Environmental precautions: Wipe up with damp sponge or mop.
- Methods and material for containment and cleaning up: Ensure adequate ventilation.

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Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7 Handling and storage

- · Handling
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: < 30 $^{\circ}C$
- Information about storage in one common storage facility: Do not store together with oxidizing and acidic materials.
- Further information about storage conditions: Store in cool, dry conditions in well sealed containers.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see Section 7.
- · Control parameters
- **Components with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal Protective Equipment
- General protective and hygienic measures Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- · Breathing equipment:
- In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator. **Protection of hands:**



Chemical resistant gloves (i.e. nitrile, or equivalent).

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Safety Data Sheet acc. to OSHA HCS

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· Eye protection: Safety glasses

· Body protection: Protective work clothing (lab coat).

9 Physical and chemical properties

 Information on basic physical General Information 	and chemical properties
· Appearance:	
Form:	Powder
Color: · Odor:	Beige Characteristic
· pH-value:	7.2 +/- 0.2
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	
· Flash point:	Not applicable
· Auto igniting:	Product is not self igniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Density:	Not determined
 Solubility in / Miscibility with Water: 	Soluble
· Solvent content:	
Solids content: • Other information	100.0 % No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- · Incompatible materials: Incompatible materials: strong acids and oxidizers.

• Hazardous decomposition products: Carbon dioxide (CO2) Hydrogen chloride (HCl) Sulfur oxides (SOx) Phosphorus oxides (POx)

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Lithium oxide (LiOx)

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

7447-41-8 lithium chloride

Oral LD50 422 mg/kg (brd)

526 mg/kg (rat)

7647-14-5 sodium chloride

Oral LD50 3000 mg/kg (rat)

7558-79-4 sodium phosphate, dibasic

Oral LD50 17000 mg/kg (rat)

· Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.

Subacute to chronic toxicity:

Target organs: central nervous system, kidneys, and blood. Target organs: reproductive disorders, and tumor formation. Target organs: eyes, face, muscles, and urogenital system.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Product is suspected to cause birth defects.

Irritant

Product is suspected to cause damage to fertility.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.

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Ecotoxical effects:
 Other information:

The ecological effects have not been thoroughly investigated, but currently none have been identified.

- · Additional ecological information:
- · General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.

· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation

Must not be disposed of with solid waste.

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements. This product is not considered a RCRA hazardous waste.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to state and federal regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number		
· DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name		
· DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA		
· Class	Void	
· Packing group		
· DOT, ADR, IMDG, IATA	Void	
· Environmental hazards: · Marine pollutant:	No	
· Special precautions for user	Not applicable.	
 Transport in bulk according to Annex MARPOL73/78 and the IBC Code 	ll of Not applicable.	



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· UN "Model Regulation":

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · SARA Section 355 (extremely hazardous substances)
- None of the ingredients is listed.
- · SARA Section 313 (specific toxic chemical listings)

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act)

7647-14-5 sodium chloride

7558-79-4 sodium phosphate, dibasic

8013-01-2 yeast extract

7447-41-8 lithium chloride

9002-18-0 agar

7778-77-0 potassium phosphate, monobasic

531-75-9 esculin

· California Proposition 65 - Chemicals known to cause cancer

389-08-2 nalidixic acid

 California Proposition 65 - Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

California Proposition 65 - Chemicals known to cause reproductive toxicity for males:
 None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms



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Signal w	vord Danger
Hazard-o	determining components of labeling:
lithium cl	hloride
Hazard s	statements
H360 Ma	ny damage fertility or the unborn child.
H335 Ma	y cause respiratory irritation.
Precauti	onary statements
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P281	Use personal protective equipment as required.
P271	Use only outdoors or in a well-ventilated area.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P304+P3	340 IF INHALED: Remove victim to fresh air and keep at rest in a position
	comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P308+P3	313 IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P403+P2	233 Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.
Chemica	al safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.

· Department issuing MSDS:

Environmental, Health & Safety Created by Michael J. Spinazzola

- · Contact: Technical Service Representative
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent