

MATERIAL SAFETY DATA SHEET**Section 1: Identification of the substances/mixtures and of the company/undertaking****A. Product Information-****Product Name: HALF FRASER BROTH BASE****Product Code No.:B1333****REACH registration no.** - This product is a mixture. REACH registration no.is not available for this product**B. Relevant identified uses of the substance/mixture and uses advised against-**Relevant identified uses- For Institutional/Industrial and laboratory use. For *in-vitro* diagnosis. Not for medicinal /Drug use**C. Manufacturer's Name:**

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Section 2: Composition/Information on Ingredients

This mixture is not classified as hazardous.

Composition**Ingredients** **grams/Litre**

Proteose Peptone	5.00
Tryptone	5.00
Yeast extract	5.00
Meat Extract B	5.00
Sodium chloride	20.00
Disodium hydrogen phosphate	9.60
Potassium Dihydrogen phosphate	1.35
Esculin	1.00
Lithium Chloride 3.00	
Nalidixic acid	0.010
Acriflavin hydrochloride 0.0125	

Hazardous Components	CAS-No.	Hazard Symbol	Risk Phrases	Safety Phrases
Lithium Chloride	7447-41-8	Xn (Harmful)	R 22-36/37/38	S 26-36/37/39
Acriflavin hydrochloride	8063-24-9	Xi (Irritant)	R36/37/38	S 26-36
Esculin	531-75-9	Xn (Harmful)	R 20-21-22	----
Nalidixic acid	389-08-2	Acute Toxic -oral	R 22/36/38	S 22/36/38
Sodium chloride	7440-23-5	-	-	-

Components	CAS-No.	Hazard Symbol
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MATERIAL SAFETY DATA SHEET

Proteose Peptone	91079-38-8	-
Tryptone	91079-40-2	-
Yeast extract	8013-01-2	-
Meat Extract B	68990-09-0	-
Sodium chloride	7440-23-5	-
Disodium hydrogenphosphate	19333-65-4	-
Potassium Dihydrogenphosphate	7778-77-0	-

MATERIAL SAFETY DATA SHEET

Section 3: Health Hazards Identification

Refer Section 2 and 15.

Section 4: First Aid Measures

MATERIAL SAFETY DATA SHEET

General Information: No special measures required.

Ingestion: If swallowed, seek medical attention if symptoms occur. Show physician product label or MSDS.

Inhalation: If inhaled, supply fresh air or oxygen. Seek medical attention if breathing becomes labored or difficult.

Eye Contact: Rinse opened eye for at least 15 minutes under running water, lifting lower and upper eyelids occasionally. Seek medical attention.

Skin Contact: Remove contaminated clothing. Immediately wash with plenty of soap and water for at least 15 minutes. Wash clothing before reuse. Seek medical attention if irritation develops.

Section 5: Fire Fighting Measures

Use Carbon dioxide, ABC multipurpose dry chemical, or water spray. Fight larger fires with water spray or alcohol resistant foam. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6: Accidental Release Measures

Personal Precautions: Wear suitable protective clothing. Remove contaminated clothing at the workplace.

Environmental Precautions: Prevent dispersion of material. Wipe up with damp sponge or mop. **Clean-up Methods:** Avoid prolonged or repeated exposure. Absorb material, ventilate area, and wash spill site after material has been cleaned up. Avoid inhalation, contact with eyes and skin. Prevent formation of dust.

Section 7: Handling and Storage

Handling: Avoid inhaling dust. Avoid contact with eyes, skin and clothing. Refer to Section 8

Storage: Store at 2-8°C in well-sealed containers.

Section 8: Exposure Controls/ Personal Protection

Wear appropriate NIOSH/MSHA-approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Mechanical exhaust required.

Section 9: Physical and Chemical Properties

Appearance: Homogeneous Free Flowing powder

Colour: Cream to light yellow

pH: 7.2 ± 0.2 at 25°C

Section 10: Stability and Reactivity

Stability: Stable under recommended storage and handling conditions

Conditions to avoid: Exposure to sunlight and

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MATERIAL SAFETY DATA SHEET

moistureHazardous polymerization will not occur

Section 11: Toxicological Information
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MATERIAL SAFETY DATA SHEET

LD/LC50 values that are relevant: LD50 ORL-RAT: 526 mg/kg – Lithium Chloride
LD50: Not available for Esculin

Carcinogenicity: Not listed.

Irritant: Irritant to eyes, skin, and mucous membranes.

Sensitization: No sensitizing effects known.

Subacute to chronic toxicity: Target organs: nervous system, respiratory system, muscle and kidneys.

Additional toxicological information: Irritant.

Section 12: Ecological Information

Ecotoxicity Tests: Generally not hazardous to water. No specific data available.

Section 13: Disposal Considerations

Disposal consideration: Non- hazardous waste. Dispose of according to all federal, state and local applicable regulations.

Container information: Containers should be cleaned by appropriate methods and then reused or disposed of by landfill or incineration as applicable.

Section 14: Transport Information

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping

name ADR/RID: Not

dangerous goods IMDG: Not

dangerous goods IATA: Not

dangerous goods

14.3 Transport hazard

class(es) ADR/RID: - IMDG:

- IATA: -

14.4 Packaging group

ADR/RID: - IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for

user-no Further information

Not classified as dangerous in the meaning of transport regulations.

Section 15: Regulatory Information

Risk Phrases:

R 20/22, Harmful by inhalation or swallowed If swallowed, seek medical attention if symptoms occur. Show physician product label or MSDS.

R 36/37/38, Irritating to eyes, respiratory system and skin.

R 21, Harmful in contact with skin.

MATERIAL SAFETY DATA SHEET

R40, Limited evidence of a carcinogenic effect.

R42/43, May cause sensitization by inhalation and skin contact.

Safety Phrases:

S22 Do not breathe dust.

S 26, In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39, Wear suitable protective clothing, gloves and eye/face protection.

MATERIAL SAFETY DATA SHEET

S36/37 Wear suitable protective clothing and gloves.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label wherepossible).

Section 16: Other Information

Information contained herein is believed to be accurate and is offered in good faith for the user's consideration and investigation. No warranty is expressed or implied regarding the completeness or accuracy of this information. Users of this material should satisfy themselves by independent investigation of current scientific or medical information that this material may be safely handled.