

## LISTERIA ENRICHMENT BROTH (DOUBLE PACK)

### SECTION 1: PRODUCT IDENTIFICATION

**Product Name:** Listeria Enrichment Broth (Double Pack)

**Product Code:** TM 1223

**REACH Registration Number:** This product is a mixture. Reach registration number is not available for this mixture

Relevant identified uses :Laboratory Chemicals, Analytical Purpose, Biochemical Analysis For InVitro Diagnostic Use

### SECTION 2: HAZARDOUS IDENTIFICATION

**Classification of the substance or mixture.**

**CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]**

Acute toxicity, Oral, (Category 4), H302

Acute toxicity, Dermal, (Category 4), H312

Acute toxicity, Inhaled, (Category 4), H332

Hazardous to the aquatic environment, long term hazard, (Category 3), H412

**Label elements**

**Labeling according to Regulation (EC) No.1272/2008**

**Pictogram**

Signal word

Warning

Hazard Statement(s)

H302

Harmful if swallowed

H312

Harmful in contact with skin

H332

Harmful if inhaled

H412

Harmful to aquatic life with long lasting effects

Precautionary Statement(s)

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352

IF ON SKIN: wash with plenty of soap and water.

P273

Avoid release to the environment

**Other hazards**

EUH032

Contact with acids liberates very toxic gas.

### SECTION 3: COMPOSITION /INFORMATION ON INGREDIENTS

**Mixture**

Component	Classification	Concentration
Acriflavine hydrochloride (Part A)		
CAS No. : 8063-24-9	<b>As Per EC Regulation 1272/2008</b> H302; H318; H411	>=0.01 - <=0.1%

Component	Classification	Concentration
Potassium thiocyanate (Part B)		
CAS No. : 330-20-1 EC No. : 206-370-1	<b>As Per EC Regulation 1272/2008</b> Acute Tox.oral 4; Acute Tox. dermal. 4; Acute Tox.inhal. 4; Aquatic Chronic 3 H302; H312; H332; H412	>=90.0 - <=100%

Refer Section 16 for complete statement of H codes and its classification

### 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 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. Consult a physician.

##### In case of eye contact

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

##### 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

No data available.

##### Indication of immediate medical attention and special treatment needed

No data available

### SECTION 5: FIRE FIGHTING MEASURES

#### Extinguishing media

##### Suitable extinguishing media

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

##### Unsuitable extinguishing media

No data available.

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

Carbon oxides, Hydrogen chloride gas, Sodium oxides

#### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### Further information

No data available

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

Soak up with inert adsorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### Reference to other sections

For disposal see section 13.

### SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling** Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

**Conditions for safe storage, including any incompatibilities** Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Recommended Storage Temperature:** On receipt store between 2-8°C

#### Specific end uses

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



## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Components with workplace control parameters

### Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the products.

### Personal protective equipment

#### Hygiene measure

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

#### Eye/face protection

Tightly fitting safety goggles; Faceshield (8-inch minimum). 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. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Environment exposure controls

Do not empty into drains.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

a) Appearance	: Part A : Cream to yellow colour, homogeneous free flowing powder Part B : White to cream colour, homogeneous free flowing powder.
b) Odour	: No data available
c) Odour Threshold	: No data available
d) pH	: 7.20 - 7.60
e) Melting point/freezing point	: No data available
f) Initial boiling point and boiling range	: No data available
g) Flash point	: No data available
h) Evaporation rate	: No data available
i) Flammability (solid, gas)	: No data available
j) Upper/lower flammability or explosive limits	: No data available
k) Vapour pressure	: No data available
l) Vapour density	: No data available
m) Relative density	: No data available
n) Water solubility	: No data available
o) Partition coefficient octanol/water	: No data available
p) Auto-ignition temperature	: No data available



q) Decomposition temperature	: No data available
r) Viscosity	: No data available
s) Explosive properties	: No data available
t) Oxidizing properties	: No data available

**Other safety information**

No data available

**SECTION 10: STABILITY AND REACTIVITY DATA**

**Reactivity:**No data available

**Chemical stability:**No data available.

**Possibility of hazardous reactions:** No data available

**Conditions to avoid:**No data available

**Incompatible materials:** No data available

**Hazardous decomposition products:** Refer Section 5.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

**Acute toxicity:** No data available

**Skin corrosion/irritation:** No data available

**Serious eye damage/eye irritation:** No data available

**Respiratory or skin sensitization:** No data available

**Germ cell mutagenicity:** No data available

**Carcinogenicity:**

IARC: No component of this product is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity:** No data available

**Specific target organ toxicity- single exposure:** No data available

**Aspiration hazard:** No data available

**Potential Health**

**Effects Inhalation:** REFER SECTION 2

**Skin:** REFER SECTION 2

**Eyes:**REFER SECTION 2

**Ingestion:** REFER SECTION 2

**Additional Information:** RTECS: Not available

**Components**

**Acriflavine Hydrochloride**

Acute Oral Toxicity

Rat LD50: 1,048 mg/kg

Skin corrosion/irritation

Skin-Rabbit

Result: No irritation

Serious eye damage/eye irritation

Rabbit :Causes serious eye irritation

**Additional information**

RTECS: No data available

Causes cardiovascular effects, Central nervous system depression, Respiratory disorders

**Potassium thiocyanate**

Acute oral toxicity

Mouse LD50: 594 mg/kg

Mouse LD50: 590 mg/kg

Rat LD50: 854 mg/kg



Human oral TDLo: 428 mg/kg  
Toxic psychosis, hallucinations, distorted perceptions, gastritis  
Human oral LDLo: 80 mg/kg  
hallucinations, distorted perceptions, convulsions, muscle weakness.  
Rabbit oral LDLo: 500 mg/kg  
Guinea pig oral LDLo: 600 mg/kg  
Frog oral LDLo: 300 mg/kg

**Carcinogenicity**

Not listed by ACGIH, IARC, NTP or CA Prop 65.

**Teratogenicity**

No information available

**Additional information**

RTECS : XL1925000

**SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity**

No data available

**Components**

**Sodium thioglycollate**

Toxicity to fish

*Leuciscus idus* (Golden orfe) LC50 :1 -10 mg/l ;48 h

Bluegill/Sunfish LC50: 13.5 mg/l; 48 h

Rainbow trout LC50 : 19.9 mg/l; 48 h

**Components:**

**Potassium thiocyanate**

Toxicity to fish

*Salvelinus fontinalis* (Flow through test) LC50: > 27.9 mg/L;96h

*Oncorhynchus mykiss* (rainbow trout) LC50: 11 mg/l; 96 h

Toxicity to aquatic invertebrates

*Daphnia magna* (Water flea)

LC50: 0.629 - <= 32.088 mg/L;96h (Static test)

EC50: 2.8 mg/l; 96 h

Toxicity to aquatic algae and cyanobacteria

*Microcystis aeruginosa* (Static test) EC50: 47 mg/L;72h

Toxicity to other aquatic organisms

*Pandalus montaguil* (pink shrimp)LC50: > 6.2 mg/L;48h

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Result of PBT and vPvB assessment**

This preparation contains no substance considered to be persistent,bioaccumulating or toxic (PBT) at levels of 0.1% or higher.

**Other adverse effects**

No data available

**SECTION 13: DISPOSAL CONSIDERATION**

**Waste treatments methods**

**Product**



Offer surplus and non- recyclable solutions to a licenced company. Contact a licenced professional waste disposal service to dispose off this material.

**Contaminated packaging**

Dispose of as unused product

**SECTION 14: TRANSPORT INFORMATION**

**UN - No**

ADNR : ADR : IATA\_C : IATA\_P : IMDG : RID :

**UN proper shipping name**

ADNR	:	Not dangerous goods
ADR	:	Not dangerous goods
IATA_C	:	Not dangerous goods
IATA_P	:	Not dangerous goods
IMDG	:	Not dangerous goods
RID	:	Not dangerous goods

**Transport hazard class(es)**

ADNR : - ADR : - IATA\_C : - IATA\_P : - IMDG : - RID : -

**Packaging group**

ADNR : ADR : IATA\_C : IATA\_P : IMDG : RID :

**Environmental hazards**

ADNR : No ADR : No IMDG : Marine Pollutant No IATA\_C : No IATA\_P : No RID : No

**Special precautions for use** No data available

**SECTION 15: REGULATORY INFORMATION**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**Safety health and environment regulations/legislation specific for the substance or mixture**

No data available

**Chemical Safety Assessment**

No data available.

**SECTION 16: OTHER INFORMATION**

Text of H codes and classification mentioned in section 3

H302	Harmful if swallowed
H312	Harmful in contact with skin
H318	Causes serious eye damage
H332	Harmful if inhaled
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
Acute Tox. dermal. 4	Acute toxicity, dermal, Category 4
Acute Tox.inhal. 4	Acute toxicity, inhaled, Category 4
Acute Tox.oral 4	Acute toxicity, oral, Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment, long term hazard, Category 3

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