

# MATERIAL SAFETY DATA SHEET

# Demi FRASER Listeria Selective Enrichment Broth Base

Date of Issue: 08/27/2023

# **Material Safety Data sheet**

Section 1: Product and Company Information			
Product Name Demi FRASER Listeria Selective Enrichment Broth Base			
Catalogue Number	i23231	Technical Phone	0098 21 66787291
			09391003565
E-mail	ibresco@gmail.com	Fax No	0098 2633523460
Company Address	Zist Kavosh Iranian, No.432, East Kokab Av,45 Metri Golshahr, Karaj, Iran.		

Section 2: Hazards Identification		
Classification of the substance or mixture		
Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.		
Label elements		
Pictogram	none	
Signal word	none	

# Signal word

none

Hazard statement(s) none Precautionary statement(s)

none

Supplemental Hazard Statements

none

## Other hazards

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

Section 3: Composition / Information on Ingredients			
Mixture			
Component		Classification	Concentration
Lithium chloride			
CAS-No. EC-No. Registration number	7447-41-8 231-212-3 01-2119560574-35-XXXX	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; H302, H315, H319	>= 1 - < 10 %

Section 4: First Aid Measures		
Description of first-aid measures		
If inhaled	After inhalation: fresh air.	
In case of skin contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.	
In case of eye contact	After eye contact: rinse out with plenty of water. Remove contact lenses.	
If swallowed	After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.	

## 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

## **Section 5: Fire Fighting Measures**

## **Extinguishing media**

## Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder.

## Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

## Special hazards arising from the substance or mixture

Mixture with combustible ingredients.

Fire may cause evolution of:

Hydrogen chloride gas, Oxides of phosphorus

Development of hazardous combustion gases or vapors possible in the event of fire.

## Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

#### **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

Advice for non-emergency personnel: Avoid inhalation of dusts. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

## **Environmental precautions**

Do not let product enter drains.

## Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

## Reference to other sections

For disposal see section 13.

## **Section 7: Handling and Storage**

#### Precautions for safe handling

For precautions see section 2.

## Conditions for safe storage, including any incompatibilities

Storage conditions Tightly closed. Dry.

Recommended storage temperature see product label.

## **Section 8: Exposure Controls / Personal Protection**

#### **Control parameters**

Ingredients with workplace control parameters

**Exposure controls** 

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.

## Skin protection

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: > 480 min

Material tested: KCL 741 Dermatril® L

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: > 480 min Material tested: KCL 741 Dermatril® L

## 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.

Recommended Filter type: Filter type P2

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

## Control of environmental exposure

Do not let product enter drains.

Section 9: Physical and Chemical Properties		
Physical state	solid	
Color	beige	
Odor	peptone-like	
Odor Threshold	No data available	
Melting point/freezing point	No data available	
Initial boiling point and boiling range	No data available	
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Upper/lower flammability or explosive limits	No data available	
Flash point	No data available	
Vapor pressure	No data available	
Vapor density	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
рН	7,0 - 7,4 at 57,4 g/l at 25 °C	
Viscosity	No data available	
Water solubility	57,4 g/l	
Partition coefficient: n-octanol/water	No data available	
Relative density	No data available	
Explosive properties	No data available	

No data available

Other safety information

No data available

# Section 10: Stability and Reactivity

## Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

## Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

## Possibility of hazardous reactions

no information available

## Conditions to avoid

no information available

## **Incompatible materials**

no information available

## Hazardous decomposition products

In the event of fire: see section 5

## **Section 11: Toxicological Information**

#### Information on toxicological effects

Mixture

Acute toxicity

Acute toxicity estimate Oral - > 2.000 mg/kg

(Calculation method)

Inhalation: No data available

Dermal: 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 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

Aspiration hazard No data available

Additional Information Hazardous properties cannot be excluded but are unlikely when the product is

handled appropriately.

## Components

Acute toxicity

## Lithium Chloride

LD50 Oral - Rat - male - 526 mg/kg

Remarks: (ECHA)

LC50 Inhalation - Rat - male and female - 4 h - > 5,57

mg/l

(OECD Test Guideline 403)

LD50 Dermal - Rat - male and female - > 2.000 mg/kg

(OECD Test Guideline 402)

Skin - Rabbit

Skin corrosion/irritation Result: Severe skin irritation - 24 h

Remarks: (RTECS) Eyes - Rabbit

Serious eye damage/eye irritation Result: Eye irritation

(OECD Test Guideline 405) Buehler Test - Guinea pig

**Respiratory or skin sensitization**Result: Not a skin sensitizer.

(OECD Test Guideline 406) Test Type: Ames test

Test system: Escherichia coli/Salmonella typhimurium

Result: negative

Remarks: (in analogy to similar products)
The value is given in analogy to the following

substances: Lithium hydroxide

Germ cell mutagenicity

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Result: negative

Remarks: (in analogy to similar products)
The value is given in analogy to the following

substances: Lithium hydroxide

monohydrate
No data available

CarcinogenicityNo data availableReproductive toxicityNo data availableSpecific target organ toxicity - single exposureNo data availableSpecific target organ toxicity - repeated exposureNo data availableAspiration hazardNo data available

Additional Information No data available

Section 12: Ecological Information		
Toxicity		
Mixture	No data available	
Persistence and degradability	No data available	
Bio accumulative potential	No data available	
Mobility in soil	No data available	
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.	
Other adverse effects Discharge into the environment must be avoided.		
Components		
Lithium chloride		
Toxicity to fish	static test LC50 - Oncorhynchus mykiss (rainbow trout) – 158 mg/l - 96 h (OECD Test Guideline 203)	

96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic static test EC50 - Daphnia magna (Water flea) – 249 mg/l – 48 h

invertebrates (OECD Test Guideline 202)

Toxicity to algae static test ErC50 - Desmodesmus subspicatus (green algae) - > 400

mg/l - 72 h (OECD Test Guideline 201)

static test EC50 - activated sludge - 320,05 mg/l - 3 h

(OECD Test Guideline 209)

Toxicity to bacteria Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: Lithium

hydroxide

# **Section 13: Disposal Consideration**

## Waste treatment methods

#### **Product**

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

Section 14: Transport Information		
UN number	ADR/RID: -	
	IMDG: -	
	IATA: -	
UN proper shipping name	ADR/RID: Not dangerous goods	
	IMDG: Not dangerous goods	
	IATA: Not dangerous goods	
Transport hazard class(es)	ADR/RID: -	
	IMDG: -	
	IATA: -	
Packaging group	ADR/RID: -	
	IMDG: -	
	IATA: -	
Environmental hazards	ADR/RID: no	
	IMDG Marine pollutant: no	
	IATA: no	
~		

## Special precautions for user

**Further information** Not classified as dangerous in the meaning of transport regulations.

# **Section 15: Regulatory Information**

# Safety, health and environmental regulations/legislation specific for the substance or mixture

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

## **Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

## **Section 16: Other Information**

## DISCLAIMER

For R&D use only. Not for drug, household or other uses.

## WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. *ibresco* shall not be held liable for any damage resulting from handling or from contact with the above product.

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