

# MATERIAL SAFETY DATA SHEET

# Listeria Selective Enrichment Supplement

Date of Issue: 01/20/2024

## Material Safety Data sheet

Product Name	Listeria Selective Enrich	ment Supplement	
		ment supprenient	0000 01 6670700
Catalogue Number	iS47084	Technical Phone	0098 21 6678729
			09391003565
E-mail	ibresco@gmail.com	Fax No	0098 2633523460
Company Address	Zist Kavosh Iranian, No.	432, East Kokab Av,45 M	etri Golshahr, Karaj, Iran
	Section 2: Ha	zards Identification	
Classification of the sub	ostance or mixture ccordance with Hazardous	Products Regulations (U	PD)
(SOR/2015-17)	ccoruance with mazaruous	rroducts Regulations (II)	rk)
Corrosive to Metals (Cate	egory 1) H290		
Acute toxicity, Oral (Cate			
Skin corrosion (Category			
Serious eye damage (Cate			
Germ cell mutagenicity (			
Carcinogenicity (Categor			
Reproductive toxicity (Ca			
	c hazard (Category 2), H401		
		1	
Long-term (chronic) aqua	alic nazard (Calegory 2), H41	1	
	cluding precautionary state		•
GHS Label elements, in			
GHS Label elements, in Pictogram		ements	
GHS Label elements, in Pictogram Signal Word			
Pictogram Signal Word Hazard Statements	cluding precautionary state	ements	
GHS Label elements, in Pictogram Signal Word Hazard Statements H290 May be corrosive to	cluding precautionary state	ements	
GHS Label elements, in Pictogram Signal Word Hazard Statements H290 May be corrosive t H300 Fatal if swallowed.	cluding precautionary state	ements	
GHS Label elements, in Pictogram Signal Word Hazard Statements H290 May be corrosive t H300 Fatal if swallowed. H314 Causes severe skin	cluding precautionary state o metals. burns and eye damage.	ements	
GHS Label elements, in Pictogram Signal Word Hazard Statements H290 May be corrosive t H300 Fatal if swallowed. H314 Causes severe skin H341 Suspected of causin	o metals. burns and eye damage. ng genetic defects.	ements	
GHS Label elements, in Pictogram Signal Word Hazard Statements H290 May be corrosive t H300 Fatal if swallowed. H314 Causes severe skin H341 Suspected of causin H351 Suspected of causin	o metals. burns and eye damage. ng genetic defects. ng cancer.	ements	
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GHS Label elements, in Pictogram Signal Word Hazard Statements H290 May be corrosive to H300 Fatal if swallowed. H314 Causes severe skin H341 Suspected of causin H351 Suspected of causin H360 May damage fertili H411 Toxic to aquatic lif Precautionary Statemen P201 Obtain special instr P202 Do not handle until P234 Keep only in origin P260 Do not breathe dust P264 Wash skin thorough P270 Do not eat, drink or P273 Avoid release to the P280 Wear protective gloc P301 + P310 + P330 IF S	o metals. burns and eye damage. ng genetic defects. ng cancer. ity or the unborn child. e with long lasting effects. <b>nts</b> uctions before use. all safety precautions have b al packaging. t. hly after handling. smoke when using this prod e environment.	ements  Ements  Danger  Danger  Deeen read and understood.  uct.  protection/ face protection call a POISON CENTER/	doctor. Rinse mouth.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable

for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

P391 Collect spillage.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS

none

Section 3: Composition / Information on Ingredients			
Mixture			
Component		Classification	Concentration*
Cycloheximide			
CAS-No. EC-No. Index-No.	66-81-9 200-636-0 613-140-00-8 4-dibydro-7-methyl-4-6	Acute Tox. 2; Muta. 2; Repr. 1B; Aquatic Acute 2; Aquatic Chronic 2; H300, H341, H360, H401, H411 <b>xxo-1,8-naphthyridin-3-carboxylate</b>	>= 30 - < 60 %
CAS-No.	3374-05-8	Acute Tox. 4; Carc. 2; H302, H351	>= 30 - < 60 %
Acriflavine hydroc	chloride	, , , , , , , , , , , , , , , , , , , ,	
CAS-No.	69235-50-3	Acute Tox. 4; Eye Dam. 1; Aquatic Chronic 2; H302, H318, H411	>= 5 - < 10 %
Sodium hydroxide			
CAS-No. EC-No. Index-No. Registration number	1310-73-2 215-185-5 011-002-00-6 01-2119457892-27- XXXX	Met. Corr. 1; Skin Corr. 1A; Eye Dam. 1; Aquatic Acute 3; H290, H314, H318, H402 Concentration limits: >= 0.4 %: Met. Corr. 1, H290; >= 5 %: Skin Corr. 1A, H314; 2 - < 5 %: Skin Corr. 1B, H314; 0.5 - < 2 %: Skin Irrit. 2, H315; 0.5 - < 2 %: Eye Irrit. 2, H319;	>= 2 - < 5 %

Section 4: First Aid Measures		
Description of first-aid measures		
General advice	First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.	
If inhaled	After inhalation: fresh air. Call in physician.	
In case of skin contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.	
In case of eye contact	After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.	
If swallowed	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately.	

In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. Do not attempt to neutralise.

#### 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

Carbon oxides Nitrogen oxides (NOx) Hydrogen chloride gas Sodium oxides Combustible. Fire may cause evolution of: nitrogen oxides, Hydrogen chloride gas Development of hazardous combustion gases or vapours possible in the event of fire.

## Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

## 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. Avoid substance contact. 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 carefully. 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

#### Advice on safe handling

Work under hood. Do not inhale substance/mixture.

#### Hygiene measures

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

For precautions see section 2.

Control noromotors

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Conditions for safe storage, including any incompatibilities		
	No metal containers.	
Storage conditions	Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.	
	Recommended storage temperature see product label.	
Storage class	Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials	

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

Control para	inclus s	
Components	with workplace control parameters	

Components	CAS-No.	Value	Control parameters	Basis
sodium hydroxide	1310-73-2	С	2 mg/m3	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		(c)	2 mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
Remarks	Remarks Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.		n effects and its adjustment to compensate for	
		С	2 mg/m3	Canada. British Columbia OEL
		С	2 mg/m3	USA. ACGIH Threshold Limit Values (TLV)

#### **Exposure controls**

#### **Appropriate engineering controls**

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

#### 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). Tightly fitting safety goggles.

## 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

**Body Protection** 

protective clothing

#### **Respiratory protection**

Recommended Filter type: Filter type P3

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. 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**

Do not let product enter drains.

Section 9: Physical and Chemical Properties	
Physical state	solid
Color	orange
Odor	odorless
Odor Threshold	Not applicable
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
pH	No data available
Viscosity	No data available
Water solubility	soluble
Partition coefficient: n-octanol/water	No data available
Density	No data available
Relative density	No data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none
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** Violent reactions possible with: Acetone Chlorine

Ethylene oxide Fluorine

Hydrogen halides

Hydrazine hydrate hydroxylamine Acid anhydrides Acrolein Acid chlorides Acids sulfuric acid Chloroform hydrogen peroxide anhydrides Antimony trichloride phosphides halogen-halogen compounds trichloroethene (Methoxymethoxymethyl)tributyltin Strong oxidizing agents Strong bases Peroxides Ammonia Alkali metals Reducing agents can decompose violently in contact with: Organic Substances hydrogen sulphide Risk of ignition or formation of inflammable gases or vapours with: powdered aluminium Ammonium salts persulfates Sodium borohydride phosphorus Oxides of phosphorus Halogenated hydrocarbon Light metals Metals Risk of explosion/exothermic reaction with: Bromine Calcium in powder form furfuryl alcohol Nitromethane Peroxides organic nitro compounds Nitriles Acrylic monomers 3-Pentylmagnesium bromide Chloroform with Acetone Nitrobenzene with Methanol Nitrobenzene with salts Magnesium Zinc

and	
Tin C i l i l i	
(in the presence of atmospheric oxygen and/or Conditions to avoid	moisture)
no information available	
Incompatible materials	
Metals	
Hazardous decomposition products In the event of fire: see section 5	
in the event of file. see section 5	
Section 1	1: Toxicological Information
Information on toxicological effects	
Mixture	
	Acute toxicity estimate Oral - 10.55 mg/kg
	(Calculation method) Symptoms: If ingested, severe burns of the mouth and throat, as
	well as a danger of
Acute toxicity	perforation of the esophagus and the stomach.
	Symptoms: mucosal irritations, Cough, Shortness of breath,
	Possible damages:, damage of respiratory tract
	Dermal: No data available
Skin corrosion/irritation	Remarks: Mixture causes burns.
Serious eye damage/eye irritation	Remarks: Mixture causes serious eye damage. Risk of blindness!
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	Evidence of genetic defects.
Carcinogenicity	Evidence of a carcinogenic effect.
Reproductive toxicity	May harm the unborn child. May impair fertility.
Specific target organ toxicity - single	No data available
exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
	s properties can not be excluded.
	should be handled with particular care.
	dance with good industrial hygiene and safety practice.
Components	
Cycloheximide	A guta taviaitu astimata Oral 51 malla
	Acute toxicity estimate Oral - 5.1 mg/kg (Expert judgment)
A outo tovicity	Remarks: (Regulation (EC) No 1272/2008, Annex VI)
Acute toxicity	Inhalation: No data available
	Dermal: No data available No data available
	Skin - Rabbit
Skin corrosion/irritation	Result: slight irritation
SKIII CULLUSIOII/ILLIAAUUII	Remarks: (RTECS)
	(Regulation (EC) No 1272/2008, Annex VI)

Serious eye damage/eye irritation	Remarks: No data available
Respiratory or skin sensitization	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
Germ cell mutagenicity	Suspected of causing genetic defects.
Carcinogenicity	No data available
Reproductive toxicity	May damage the unborn child.
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
sodium-1-ethyl-1,4-dihydro-7-methyl-4-oxo-1	
Acute toxicity	LD50 Oral - 500.1 mg/kg (Expert judgment) 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	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
Germ cell mutagenicity	No data available
Carcinogenicity	This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.
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
Acriflavine hydrochloride	
Acute toxicity	LD50 Oral - Rat - 1,048 mg/kg Remarks: (External MSDS) Symptoms: cardiovascular disorders, Breathing difficulties Oral: absorption Inhalation: No data available Dermal: No data available
Skin corrosion/irritation Serious eye damage/eye irritation	Skin - Rabbit Result: No skin irritation Remarks: (External MSDS) Eyes - Rabbit Result: Eye irritation
Serious eye damago eye ni nadon	Remarks: (External MSDS) Remarks: Risk of serious damage to eyes.
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	Acute oral toxicity - cardiovascular disorders, Breathing difficulties
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Sodium hydroxide	
Acute toxicity	Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Inhalation: Corrosive to respiratory system. Symptoms: burns of mucous membranes, Cough, Shortness of breath, Possible damages:, damage of respiratory tract Dermal: No data available Skin - Rabbit
Skin corrosion/irritation	Skin - Kabbit Result: Causes burns. Remarks: (Regulation (EC) No 1272/2008, Annex VI)
Serious eye damage/eye irritation Respiratory or skin sensitization	Eyes - Rabbit Result: Causes serious eye damage. (OECD Test Guideline 405) Remarks: (Regulation (EC) No 1272/2008, Annex VI) Remarks: Causes serious eye damage. Patch test: - In vitro study Result: negative
	Remarks: (ECHA)
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	Acute oral toxicity - If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Acute inhalation toxicity - burns of mucous membranes, Cough, Shortness of breath, Possible damages:, damage of respiratory tract
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	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	PBT/vPvB assessment not available as chemical safety assessment not required/not Conducted.

Endocrine disrupting properties	No data available
Other adverse effects	Discharge into the environment must be avoided.
Components	
Cycloheximide No data available (Regulation (EC) No 1272/2008, Annex VI) sodium-1-ethyl-1,4-dihydro-7-methyl-4-oxo-1,8-naphthyridin-3-carboxylate No data available acriflavine hydrochloride	
Toxicity to fish	LC50 - Leuciscus idus (Golden orfe) - 1 - 10 mg/l - 48 h (OECD Test Guideline 203)
sodium hydroxide	
Toxicity to fish	LC50 - Gambusia affinis (Mosquito fish) - 125 mg/l - 96 h Remarks: (ECOTOX Database)
Toxicity to daphnia and other aquatic invertebrates	EC50 - Ceriodaphnia (water flea) - 40.4 mg/l - 48 h Remarks: (ECHA)
Toxicity to bacteria	EC50 - Photobacterium phosphoreum - 22 mg/l - 15 min Remarks: (External MSDS)

### Section 13: Disposal Consideration

# Waste treatment methods

Product

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

#### Contaminated packaging

Dispose of as unused product.

Section 14: Transport Information	
TDG	UN number: 2928 Class: 6.1 (8) Packing group: I Proper shipping name: TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S. (Cycloheximide, sodium hydroxide) Subsidiary risk : 8 Labels: 6.1 (8)ERG Code: 154 Marine pollutant: no
IMDG	UN number: 2928 Class: 6.1 (8) Packing group: I EMS-No: FA, S-B Proper shipping name: TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S. (Cycloheximide, sodium hydroxide) Marine pollutant : yes
IATA	UN number: 2928 Class: 6.1 (8) Packing group: I Proper shipping name: Toxic solid, corrosive, organic, n.o.s. (Cycloheximide, sodium hydroxide)

## 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

#### 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.

The information contained herein is based on the present state of our knowledge. It characterizes the product with

regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.