

# MATERIAL SAFETY DATA SHEET

## FRASER Listeria Ammonium iron (III) Supplement

Date of Issue: 01/17/2024

## Material Safety Data sheet

Section 1: Product and Company Information			
Product Name FRASER Listeria Ammonium iron (III) Supplement			
Catalogue Number	647000		0098 21 66787291
	iS47089	Technical Phone	09391003565
E-mail	ibresco@gmail.com	Fax No	0098 2633523460
Company Address	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.

GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS none

#### Section 3: Composition / Information on Ingredients

Mixture			
Component		Classification	Concentration*
Ammonium iron (III) citrate			
Formula	C6H11FeNO7		
CAS-No.	1185-57-5		<= 100 %
EC-No.	214-686-6		

\* Weight %

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**Indication of any immediate medical attention and special treatment needed** No data available

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

### Extinguishing media

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### 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)

Iron oxides Not combustible.

Fire may cause evolution of:

nitrogen oxides

Ambient fire may liberate hazardous vapors.

#### 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. 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	Protected from light. Tightly closed. Dry. Recommended storage temperature see product label.	

**Storage class** Storage class (TRGS 510): 13: Non-Combustible Solids

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

#### Control parameters Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis
Ammonium Iron (III) citrate	1185-57-5	TWA	1 mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)

Remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.		
	TWAEV	1 mg/m3	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
	TWA	1 mg/m3	Canada. British Columbia OEL
	STEL	2 mg/m3	Canada. British Columbia OEL
	TWA	1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)

#### Exposure controls

#### **Appropriate engineering controls**

Change contaminated clothing. Wash hands 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). 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.

#### Control of environmental exposure

Do not let product enter drains.

Section 9: Physical and Chemical Properties		
Physical state	Solid	
Color	Dark brown	
Odor	No data available	
Odor Threshold	No data available	
Melting point/freezing point	OECD Test Guideline 102Decomposes before melting.	
Initial boiling point and boiling range	No data available	
Evaporation rate	No data available	
Flammability (solid, gas)	The product is not flammable.	
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	27 °C (81 °F) at 966 hPadoes not ignite
Decomposition temperature	No data available
pH	6.9 at 1% at 23.3 °C (73.9 °F) - OECD Test Guideline 122
Viscosity	No data available
Water solubility	580.8 g/l at 25 °C (77 °F) - OECD Test Guideline 105
Partition coefficient: n-octanol/water	log Pow: -0.737 at 25 °C (77 °F) - Bioaccumulation is not expected.
Density	1.064 g/cm3 at 26 °C (79 °F) at 978 hPa - OECD Test Guideline 109
Relative density	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Other safety information	No data available

Section 10: Stability and Reactivity
Reactivity
No data available
Chemical stability
The product is chemically stable under standard ambient conditions (room temperature).
Possibility of hazardous reactions
No data available
Conditions to avoid
no information available
Incompatible materials
Strong oxidizing agents
Hazardous decomposition products
In the event of fire: see section 5

## Section 11: Toxicological Information

### Mixture

Acute toxicity	LD50 Oral - Rat - male and female - > 2,000 mg/kg (OECD Test Guideline 401) Remarks: (ECHA) Inhalation: No data available LD50 Dermal - Rabbit - male and female - > 8,000 mg/kg Remarks: (in analogy to similar products) (ECHA) The value is given in analogy to the following substances: 1,2,3,4- butanetetracarboxylic acid Skin - Rabbit
Skin corrosion/irritation	Result: No skin irritation - 4 h (OECD Test Guideline 404)
Serious eye damage/eye irritation	Remarks: (ECHA) Eyes - Rabbit Result: No eye irritation

		Remarks: (ECHA)
Respiratory or skin sensitization		No data available
Germ cell mutagenicity		Test Type: Ames test Test system: S. typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Remarks: (ECHA) Test Type: Chromosome aberration test in vitro Test system: Chinese hamster fibroblasts Metabolic activation: without metabolic activation Method: OECD Test Guideline 473 Result: negative Remarks: (ECHA)
Carcinogenicity		No data available
Reproductive toxicity		No data available
Specific target organ to exposure	oxicity - single	No data available
Specific target organ tox exposure	icity - repeated	No data available
Aspiration hazard		No data available
Additional Information	Overdose of iron compounds may have a corrosive effect on the gastrointestinal mucosa and be followed by necrosis, perforation, and stricture formation. Several hours may elapse before symptoms that can include epigastric pain, diarrhea, vomiting, nausea, and hematemesis occur. After apparent recovery a person may experience metabolic acidosis, convulsions, and coma hours or days later. Further complications may develop leading to acute liver necrosis that can result in death due to hepatic coma., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	

Section 12: Ecological Information		
Toxicity		
Toxicity to fish	static test LC50 - Fish - > 100 mg/l - 96 h (OECD Test Guideline 203) Remarks: The value is given in analogy to the following substances: Diammonium hydrogen citrate	
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202) Remarks: The value is given in analogy to the following substances: Diammonium hydrogen citrate	
Toxicity to algae	Remarks: The value is given in analogy to the following substances: Diammonium hydrogen citrate Remarks: The value is given in analogy to the following substances: Diammonium hydrogen citrate	
Persistence and degradability		
Biodegradability	Biochemical oxygen demand - Exposure time 14 d Result: 77 % - Readily biodegradable. Remarks: (ECHA) The value is given in analogy to the following substances: citric acid	
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.
Other adverse effects	No data available

#### 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	Not regulated as a dangerous good
IMDG	Not dangerous goods
ΙΑΤΑ	Not dangerous goods
Further information	Not classified as dangerous in the meaning of transport regulations.

#### 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.

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