

### Material Safety Data sheet

#### Section 1: Product and Company Information

<b>Product Name</b>	Beef Extract Agar		
<b>Catalogue Number</b>	i23015	<b>Technical Phone</b>	0098 21 66787291
<b>E-mail</b>	ibresco@gmail.com	<b>Fax No</b>	09391003565
<b>Company Address</b>	Zist Kavosh Iranian, No.432, East Kokab Av,45 Metri Golshahr, Karaj, Iran.		

#### Section 2: Hazards Identification

##### Classification of the substance or mixture

##### CLP Classification - Regulation (EC) No 1272/2008

**Physical hazards** Based on available data, the classification criteria are not met.

**Health hazards** Based on available data, the classification criteria are not met.

**Environmental hazards** Based on available data, the classification criteria are not met.

**Label elements** None required

**Signal Word** None

##### Other hazards

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

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

##### Mixture

Component	CAS No	EC No	Weight %	CLP Classification - Regulation (EC) No 1272/2008
NONHAZARDOUS	NA		100	-

#### Section 4: First Aid Measures

##### Description of first-aid measures

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

**Self-Protection of the First Aider** No special precautions required.

##### Most important symptoms and effects, both acute and delayed

None reasonably foreseeable. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

**Notes to Physician** Treat symptomatically.

## Section 5: Fire Fighting Measures

### Extinguishing media

#### Suitable extinguishing media

Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.

#### Extinguishing media which must not be used for safety reasons

None.

### Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

### Hazardous Combustion Products

None under normal use conditions.

### Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

### Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

### Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

### Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

## Section 7: Handling and Storage

### Precautions for safe handling

Ensure adequate ventilation. Wear personal protective equipment/face protection. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

**Technical Rules for Hazardous Substances (TRGS) 510 Storage Class (LGK)** Class 13

**Specific end use(s)** Use in laboratories

## Section 8: Exposure Controls / Personal Protection

### Control parameters

#### Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

#### Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region-specific regulatory bodies.

### Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

**Predicted No Effect Concentration (PNEC)**

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

**Exposure controls**

**Engineering Measures**                      None under normal use conditions.

**Personal protective equipment**

**Eye Protection**                              If splashes are likely to occur: Wear safety glasses with side shields (or goggles) (European standard - EN 166)

**Hand Protection**                            For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Disposable gloves	See manufacturers recommendations	-	EN 374	(Minimum requirement)

**Skin and body protection**                Long sleeved clothing.

Inspect gloves before use. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.

(Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g., sensitization effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove gloves with care avoiding skin contamination.

**Respiratory Protection**                      No protective equipment is needed under normal use conditions.

**Large scale/emergency use**                Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

**Recommended Filter type:** Particle filter

**Small scale/Laboratory use**                Maintain adequate ventilation

**Environmental exposure controls**        Avoid dust formation.

**Section 9: Physical and Chemical Properties**

Physical state	Powder Solid	
Odor	No information available	
Odor Threshold	No data available	
Melting Point/Range	No data available	
Softening Point	No data available	
Boiling Point/Range	Not applicable	
Flammability (liquid)	Not applicable	Solid
Flammability (solid, gas)	No information available	
Explosion Limits	No data available	
Flash Point	Not applicable	Method - No information available
Autoignition Temperature	No data available	

Decomposition Temperature	No data available	
pH	Not applicable	
Viscosity	Not applicable	Solid
Water Solubility	Soluble in water	
Solubility in other solvents	No information available	
Vapor Pressure	No data available	
Density / Specific Gravity	No data available	
Bulk Density	No data available	
Vapor Density	Not applicable	Solid
Particle characteristics	No data available	
Evaporation Rate	Not applicable	Solid

### Section 10: Stability and Reactivity

#### Reactivity

None known, based on information available

#### Chemical stability

Stable under normal conditions.

#### Possibility of hazardous reactions

##### Hazardous Polymerization

Hazardous polymerization does not occur.

##### Hazardous Reactions

None under normal processing.

#### Conditions to avoid

Incompatible products. Excess heat. Avoid dust formation.

#### Incompatible materials

Strong oxidizing agents.

#### Hazardous decomposition products

None under normal use conditions.

### Section 11: Toxicological Information

#### Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

##### acute toxicity

**Oral:** Not classified

**Dermal:** Not classified

**Inhalation:** Not classified

#### Toxicology data for the components

##### skin corrosion/irritation

Not classified

##### serious eye damage/irritation

Not classified

##### respiratory or skin sensitization

**Respiratory:** Not classified

**Skin:** Not classified

##### germ cell mutagenicity

Not classified

##### carcinogenicity

Not classified

There are no known carcinogenic chemicals in this product.

<b>reproductive toxicity</b>	Not classified
<b>STOT-single exposure</b>	Not classified
<b>STOT-repeated exposure</b>	Not classified
<b>Target Organs</b>	None
<b>aspiration hazard</b>	Not applicable Solid
<b>Symptoms / effects, both acute and delayed</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Information on other hazards</b>	
<b>Endocrine Disrupting Properties</b>	Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

### Section 12: Ecological Information

<b>Toxicity</b>	
<b>Ecotoxicity effects</b>	Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.
<b>Persistence and degradability</b>	Expected to be biodegradable
<b>Persistence</b>	Soluble in water, Persistence is unlikely, based on information available.
<b>Bio accumulative potential</b>	Bioaccumulation is unlikely
<b>Mobility in soil</b>	The product is water soluble, and may spread in water systems Will likely be mobile in the environment due to its water solubility. Highly mobile in soils.
<b>Endocrine disrupting properties</b>	This product does not contain any known or suspected endocrine disruptors
<b>Other adverse effects</b>	
<b>Persistent Organic Pollutant</b>	This product does not contain any known or suspected substance
<b>Ozone Depletion Potential</b>	This product does not contain any known or suspected substance

### Section 13: Disposal Consideration

<b>Waste treatment methods</b>	
<b>Waste from Residues/Unused Products</b> Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.	
<b>Contaminated Packaging</b> Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.	
<b>European Waste Catalogue (EWC)</b> According to the European Waste Catalog, Waste Codes are not product specific, but application specific.	
<b>Other Information</b> Waste codes should be assigned by the user based on the application for which the product was used.	

### Section 14: Transport Information

<b>IMDG/IMO</b> Not regulated	UN number UN proper shipping name Transport hazard class(es) Packing group
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<b>ADR</b> Not regulated	UN number UN proper shipping name Transport hazard class(es) Packing group
<b>IATA</b> Not regulated	UN number UN proper shipping name Transport hazard class(es) Packing group
<b>Environmental hazards</b>	No hazards identified
<b>Special precautions for user</b>	No special precautions required
<b>Maritime transport in bulk according to IMO instruments</b>	No special precautions required

### Section 15: Regulatory Information

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

##### International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	CAS No	EINECS	ELINCS	NLP	IECSC	TCSI	KECL	ENCS	ISHL
NONHAZARDOUS	NA	-	-	-	-	-	-	-	-

  

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	AICS	NZIoC	PICCS
NONHAZARDOUS	NA	-	-	-	-	-	-	-

Legend: X - Listed '1' - Not Listed

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

#### Authorization / Restrictions according to EU REACH

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	eveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements
NONHAZARDOUS	NA	applicable	applicable

#### Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### National Regulations

**UK** Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.

**WGK Classification** Water endangering class = non-hazardous to waters (self-classification).

#### Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures.

## Section 16: Other Information

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### **DISCLAIMER**

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

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### **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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