

### Material Safety Data sheet

#### Section 1: Product and Company Information

<b>Product Name</b>	DNase Test Agar		
<b>Catalogue Number</b>	i23057	<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

##### Mixtures

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

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
<b>Inhalation</b>	Remove to fresh air. Get medical attention immediately if symptoms occur.
<b>Self-Protection of the First Aider</b>	No special precautions required.

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

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

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**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Treat symptomatically.

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**Section 5: Fire Fighting Measures**

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**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.

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**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.

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**Advice for firefighters**

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

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**Section 6: Accidental Release Measures**

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

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

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**Environmental precautions**

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

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**Methods and material for containment and cleaning up**

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

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**Reference to other sections**

Refer to protective measures listed in Sections 8 and 13.

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**Section 7: Handling and Storage**

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**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.

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**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) (Germany)**

Class 13

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**Specific end use(s)**

Use in laboratories

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

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**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**

**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.sensitisation 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.

Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits

**Large scale/emergency use**

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**

**Information on basic physical and chemical properties**

<b>Physical State</b>	Powder Solid
<b>Appearance</b>	Varies
<b>Odor</b>	No information available
<b>Odor Threshold</b>	No data available
<b>Melting Point/Range</b>	No data available
<b>Softening Point</b>	No data available
<b>Boiling Point/Range</b>	Not applicable
<b>Flammability (liquid)</b>	Not applicable
<b>Flammability (solid, gas)</b>	No information available      Solid

<b>Explosion Limits</b>	No data available	
<b>Flash Point</b>	Not applicable	<b>Method</b> - No information available
<b>Autoignition Temperature</b>	No data available	
<b>Decomposition Temperature</b>	No data available	
<b>pH</b>	Not applicable	
<b>Viscosity</b>	Not applicable	Solid
<b>Water Solubility</b>	Soluble in water	
<b>Solubility in other solvents</b>	No information available	
<b>Partition Coefficient (n-octanol/water)</b>	No information available	
<b>Vapor Pressure</b>	No data available	
<b>Density / Specific Gravity</b>	No data available	
<b>Bulk Density</b>	No data available	
<b>Vapor Density</b>	Not applicable	Solid
<b>Particle characteristics</b>	No data available	
<b>Other information</b>		
<b>Evaporation Rate</b>	Not applicable - Solid	

#### Section 10: Stability and Reactivity

<b>Reactivity</b>	None known, based on information available
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Hazardous Reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	Incompatible products. Excess heat. Avoid dust formation.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	None under normal use conditions.

#### Section 11: Toxicological Information

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

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information
<b>acute toxicity;</b>	
<b>Oral</b>	Not classified
<b>Dermal</b>	Not classified
<b>Inhalation</b>	Not classified
<b>Toxicology data for the components</b>	
<b>skin corrosion/irritation</b>	Not classified
<b>serious eye damage/irritation</b>	Not classified
<b>respiratory or skin sensitization</b>	
<b>Respiratory</b>	Not classified

<b>Skin</b>	Not classified
<b>germ cell mutagenicity</b>	Not classified
<b>carcinogenicity</b>	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>Results of PBT and vPvB assessment</b>	This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
<b>Endocrine disrupting properties</b>	
<b>Endocrine Disruptor Information</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.

**Other Information**

Waste codes should be assigned by the user based on the application for which the product was used.

### Section 14: Transport Information

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

### 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 '-' - 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	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements
NONHAZARDOUS	NA	Not applicable	Not 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

**National Regulations**

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

<b>WGK Classification</b>	Water endangering class = non-hazardous to waters (self-classification)
<b>Chemical safety assessment</b>	Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

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### 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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