

Safety Data Sheet

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name : Inactivated Molecular Standards Lyophilized Material Preparations

Trade names : Helix Elite™ Molecular Standard Synthetic RNA

Helix Elite™ Molecular Standard Synthetic DNA Helix Elite™ Molecular Standard Genomic DNA Helix Elite™ Molecular Inactivated Standard

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Molecular Standards are used as controls for developing, validating, and monitoring molecular

instruments and assays.

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Microbiologics, Inc.

200 Cooper Avenue North

Saint Cloud, MN 56303

+1.320.253.1640

#### 1.4. Emergency telephone number

24 hour Emergency Number: +44 1865 407333 (Carechem)

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### 2.3. Other hazards

No additional information available

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substance

Not applicable

# 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sucrose	(CAS No) 57-50-1 (EC no) 200-334-9	45 - 60	Not classified
Water	(CAS No) 7732-18-5 (EC no) 231-791-2	4 - 15	Not classified
Gelatin	(CAS No) 9000-70-8 (EC no) 232-554-6	10 - 15	Not classified
Phosphoric acid, potassium salt (1:1)	(CAS No) 7778-77-0 (EC no) 231-913-4	10 - 15	Not classified
Skim milk (Bovine - USA origin)	None	9 - 12	Not classified
L-Ascorbic acid	(CAS No) 50-81-7 (EC no) 200-066-2	2 - 5	Not classified

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Purified RNA	None	0 - 2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Purified DNA	None	0 - 1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of R- and H-statements: see section 16

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a

physician.

First-aid measures after skin contact : Wash off with soap and plenty of water. Consult a physician.

First-aid measures after eye contact : Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at

least 15 minutes while keeping eyes open. COLD water may be used. Seek medical attention.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

physician.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/injuries after inhalation : None anticipated under normal product use. Symptoms/injuries after skin contact : None anticipated under normal product use.

Symptoms/injuries after eye contact : May causes eye irritation.

Symptoms/injuries after ingestion : May be harmful if swallowed.

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

No additional information available

#### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Carbon dioxide, regular dry chemical powder, or appropriate foam.

Unsuitable extinguishing media : None.

# 5.2. Special hazards arising from the substance or mixture

Fire hazard : None.
Explosion hazard : None known.

# 5.3. Advice for firefighters

Protection during firefighting : Firefighters should wear full protective gear.

# **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

For containment : Stop the flow of material, if this is without risk.

Methods for cleaning up : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable,

closed containers for disposal.

# 6.4. Reference to other sections

No additional information available

# SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store at 2°C-25°C in the original, tightly closed container in a dry and well-ventilated place.

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#### 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

Sucrose (57-50-1)				
Belgium	Limit value (mg/m³)	10 mg/m³		
Bulgaria	OEL TWA (mg/m³)	10 mg/m³ (dust, inhalable fraction)		
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	10 mg/m <sup>3</sup>		
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m³)	20 mg/m³		
Estonia	OEL TWA (mg/m³)	10 mg/m³		
France	VME (mg/m³)	10 mg/m³		
Ireland	OEL (8 hours ref) (mg/m³)	10 mg/m³		
Ireland	OEL (15 min ref) (mg/m3)	20 mg/m³		
Latvia	OEL TWA (mg/m³)	5 mg/m³ (dust)		
Lithuania	IPRV (mg/m³)	10 mg/m³		
Portugal	OEL TWA (mg/m³)	10 mg/m³		
Slovakia	NPHV (priemerná) (mg/m³)	6 mg/m³ (total aerosol)		
Spain	VLA-ED (mg/m³)	10 mg/m³		
United Kingdom	WEL TWA (mg/m³)	10 mg/m³		
United Kingdom	WEL STEL (mg/m³)	20 mg/m <sup>3</sup>		
Australia	TWA (mg/m³)	10 mg/m³ (containing no asbestos and <1% crystalline silica-inhalable dust)		
Canada (Quebec)	VEMP (mg/m³)	10 mg/m <sup>3</sup>		
USA - ACGIH	ACGIH TWA (mg/m³)	10 mg/m <sup>3</sup>		
USA - NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)		
USA - OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)		

#### 8.2. Exposure controls

Appropriate engineering controls : Maintain adequate ventilation at all times. In most circumstances, natural ventilation systems

are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust ventilation system is recommended.

Hand protection : Handle with protective gloves. Inspect gloves for damage or imperfections prior to use. Use

proper technique when removing gloves to avoid skin contact with the outer surface of the

glove. Always wash hands after removal of gloves.

Eye protection : Safety glasses with side shields.

Skin and body protection : Wear protective clothing.

Respiratory protection : Respiratory protection is not required.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Solid or dried material on swab
Appearance : Freeze dried pellet or swab

Odor : Odorless.

: No data available Odor threshold рH No data available Relative evaporation rate (butylacetate=1) No data available Melting point No data available Freezing point : No data available Boiling point : No data available : No data available Flash point Auto-ignition temperature No data available : No data available Decomposition temperature : No data available Flammability (solid, gas) Vapour pressure : No data available

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Relative vapour density at 20 °C : No data available Relative density : No data available Solubility : No data available Log Pow No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available : No data available Explosive properties Oxidising properties : No data available Explosive limits : No data available

#### 9.2. Other information

No additional information available

# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal ambient and anticipated storage and handling conditions.

#### 10.3. Possibility of hazardous reactions

Will not occur.

#### 10.4. Conditions to avoid

None.

#### 10.5. Incompatible materials

Many chemicals may kill the organism enclosed. There are no additional hazards created by incompatible materials.

#### 10.6. Hazardous decomposition products

Carbon and nitrogen oxides.

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

#### Water (7732-18-5)

LD50 oral rat > 90 ml/kg

# Sucrose (57-50-1)

LD50 oral rat 29700 mg/kg

#### L-Ascorbic acid (50-81-7)

LD50 oral rat 11900 mg/kg

# Phosphoric acid, potassium salt (1:1) (7778-77-0)

LD50 oral rat 3200 mg/kg

Skin corrosion/irritation : Not classified Serious eye damage/irritation Not classified Respiratory or skin sensitisation Not classified Germ cell mutagenicity Not classified Carcinogenicity : Not classified Not classified Reproductive toxicity Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified exposure)

# SECTION 12: Ecological information

#### 12.1. Toxicity

Aspiration hazard

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

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: Not classified

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#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

# 12.6. Other adverse effects

No additional information available

# **SECTION** 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international

regulations.

# **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No. (ADR) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable
UN-No. (ADN) : Not applicable
UN-No. (RID) : Not applicable

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

#### 14.3. Transport hazard class(es)

# ADR

Transport hazard class(es) (ADR) : Not applicable

#### **IMDG**

Transport hazard class(es) (IMDG) : Not applicable

#### IATA

Transport hazard class(es) (IATA) : Not applicable

# ADN

Transport hazard class(es) (ADN) : Not applicable

# RID

Transport hazard class(es) (RID) : Not applicable

#### 14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

#### 14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

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#### 14.6. Special precautions for user

#### - Overland transport

Not applicable

#### - Transport by sea

Not applicable

#### - Air transport

Not applicable

#### - Inland waterway transport

Not applicable

#### - Rail transport

Not applicable

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

#### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

#### Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 3, severe hazard to waters (Classification according to AwSV,

Annex 1)

: Gelatin is listed

: Gelatin is listed

12th Ordinance Implementing the Federal

Immission Control Act - 12.BlmSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

# Netherlands

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

: None of the components are listed

: None of the components are listed

: None of the components are listed

#### 15.2. Chemical safety assessment

No additional information available

# **SECTION 16: Other information**

### Full text of R-, H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
EUH210	Safety data sheet available on request

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product