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| Effective date:<br><b>20/05/24</b> | Hy-Labs Cat. No: | <b>MSDS FORMAT</b>                | Replace Doc:<br>NA |
| Doc. No:<br><b>MSDS- PD091</b>     | <b>PD091</b>     | <b>MATERIAL SAFETY DATA SHEET</b> |                    |

| 1- Product and Company Identification                                                                                                                                                                                                                                 |                                                                                                        |                                                                                 |           |           |              |                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------|-----------|--------------|--------------------------------------------------------------|
| Product Name                                                                                                                                                                                                                                                          | HEKTOEN ENTERIC AGAR                                                                                   |                                                                                 |           |           |              |                                                              |
| Reference number                                                                                                                                                                                                                                                      | PD091                                                                                                  |                                                                                 |           |           |              |                                                              |
| Manufacturer                                                                                                                                                                                                                                                          | Hy-Laboratories Ltd.<br>Park Tamar, Rehovot, 76326, Israel<br>Tel: 972-8-9366475<br>Fax: 972-8-9366474 |                                                                                 |           |           |              |                                                              |
| 2- Hazards identification                                                                                                                                                                                                                                             |                                                                                                        |                                                                                 |           |           |              |                                                              |
| <b>2.1 .Classification of the substance or mixture</b><br>2.1.2 .Classification - GHS Skin Sens. 1: H317;                                                                                                                                                             |                                                                                                        |                                                                                 |           |           |              |                                                              |
| <b>2.2 .Label elements</b><br>Hazard pictograms                                                                                                                                                                                                                       |                                                                                                        |                                                                                 |           |           |              |                                                              |
|                                                                                                                                                                                      |                                                                                                        |                                                                                 |           |           |              |                                                              |
| Signal Word                                                                                                                                                                                                                                                           | Warning                                                                                                |                                                                                 |           |           |              |                                                              |
| Hazard Statement                                                                                                                                                                                                                                                      | Skin Sens. 1: H317 - May cause an allergic skin reaction.                                              |                                                                                 |           |           |              |                                                              |
| Precautionary Statement: Prevention<br>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P272 - Contaminated work clothing should not be allowed out of the workplace.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection. |                                                                                                        |                                                                                 |           |           |              |                                                              |
| Precautionary Statement: Response<br>P302+P352 - IF ON SKIN: Wash with plenty of water. /<br>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.                                                                                             |                                                                                                        |                                                                                 |           |           |              |                                                              |
| <b>2.2 .Label elements</b><br>Precautionary Statement: Disposal<br>P501 - Dispose of contents/container to an approved waste disposal plant (in accordance with local/regional/national/international regulation).                                                    |                                                                                                        |                                                                                 |           |           |              |                                                              |
| <b>2.3 .Other hazards</b><br>Other hazards Combustible dusts: May form combustible dust concentrations in air.<br>Contains material(s) which may be harmful if swallowed. Dust may be irritating if inhaled.                                                          |                                                                                                        |                                                                                 |           |           |              |                                                              |
| 3- Composition/information on ingredients                                                                                                                                                                                                                             |                                                                                                        |                                                                                 |           |           |              |                                                              |
| <b>3.2 .Mixtures</b><br>EC 1272/2008                                                                                                                                                                                                                                  |                                                                                                        |                                                                                 |           |           |              |                                                              |
| Chemical Name                                                                                                                                                                                                                                                         | Index No.                                                                                              | CAS No.                                                                         | EC No.    | REACH No. | Conc. (%w/w) | Classification                                               |
| Sodium cholate                                                                                                                                                                                                                                                        |                                                                                                        | 361-09-1                                                                        | 206-643-5 |           | 1 - <5%      | Skin Irrit. 2: H315; Eye Irrit. 2: H319;                     |
| Sodium Deoxycholate                                                                                                                                                                                                                                                   |                                                                                                        | 302-95-4                                                                        | 206-132-7 |           | 1 - <5%      | Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Irrit. 2: H319; |
| Sucrose                                                                                                                                                                                                                                                               |                                                                                                        | 57-50-1                                                                         | 200-334-9 |           | 10 - 20%     |                                                              |
| Sodium thiosulfate, anhydrous                                                                                                                                                                                                                                         |                                                                                                        | 7772-98-7                                                                       | 231-867-5 |           | 1 - 10%      |                                                              |
| D-Salicin                                                                                                                                                                                                                                                             |                                                                                                        | 138-52-3                                                                        | 205-331-6 |           | 1 - <5%      | Skin Sens. 1: H317;                                          |
| Ferric ammonium citrate                                                                                                                                                                                                                                               |                                                                                                        | 1185-57-5                                                                       | 214-686-6 |           | 1 - <5%      | Skin Irrit. 2: H315; Eye Irrit. 2: H319;                     |
| Description                                                                                                                                                                                                                                                           |                                                                                                        | Concentrations listed are not product specifications.                           |           |           |              |                                                              |
| Particle Characteristics                                                                                                                                                                                                                                              |                                                                                                        | No data available.                                                              |           |           |              |                                                              |
| Further information                                                                                                                                                                                                                                                   |                                                                                                        | Full text of Hazard Statements listed in this Section is provided in Section 16 |           |           |              |                                                              |
| 4- First Aid Measures                                                                                                                                                                                                                                                 |                                                                                                        |                                                                                 |           |           |              |                                                              |
| <b>4.1 .Description of first aid measures</b><br>Inhalation                                                                                                                                                                                                           |                                                                                                        |                                                                                 |           |           |              |                                                              |

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Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops , provide artificial respiration. Seek medical attention if irritation or symptoms persist.

**Eye contact**

Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist.

**Skin contact**

Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation or symptoms persist.

**Ingestion**

Do not induce vomiting unless told to do so by the poison control center or doctor. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

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

**Inhalation**

May cause irritation to respiratory system.

**Eye contact**

May cause irritation to eyes.

**Skin contact**

May cause irritation to skin. May cause dermatitis.

**Ingestion**

Ingestion may cause nausea and vomiting. May cause oral mucosal irritation.

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

Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist.

If medical advice is needed, have product container or label at hand.

**5- Fire Fighting Measures**

**5.1 .Extinguishing media**

Use extinguishing media appropriate to the surrounding fire conditions.

**5.2 .Special hazards arising from the substance or mixture**

Combustible dusts: May form combustible dust concentrations in air.

Avoid formation of dust. Do not allow undiluted product to be released to ground water, water course or sewage system.

**5.3 .Advice for firefighters**

Do not breathe dust or vapor. Wear self-contained breathing apparatus and chemical-protective clothing.

**6- ACCIDENTAL RELEASE MEASURES**

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

Avoid formation of dust. Use as appropriate: Protective equipment, Protective clothing. Ensure adequate ventilation of the working area. Avoid prolonged or repeated exposure.

**6.2. Environmental precautions**

Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water. Do not flush into surface water. Do not let product contaminate subsoil.

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

Avoid formation of dust. Clean spillage area thoroughly with plenty of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

**6.4. Reference to other sections**

See Section(s) 2, 8, and 13 for further information.

**7- Handling and Storage**

**7.1 .Precautions for safe handling**

Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area. Do not contaminate water by cleaning of equipment or disposal of wastes. Use as appropriate: Protective clothing.

Read the entire label and follow all use directions, restrictions, and precautions.

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

Store at temperatures between 2 °C and 30 °C. Follow label instructions.

Store in correctly labelled containers. Keep container tightly closed. Protect from moisture. Do not contaminate water, food, or feed by storage or disposal.

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

See Section(s) 1.2 for further information.

Further information

Refer to product label and/or package insert for additional information.

**8- Exposure Controls, Personal Protection****8.1. Control parameters**

|         |                                     |                            |
|---------|-------------------------------------|----------------------------|
| Sucrose | ACGIH TLV TWA: 10 mg/m <sup>3</sup> | ACGIH TLV STEL: -          |
|         | Notations: A4                       | OSHA PEL 8hr TWA ppm: -    |
|         | OSHA PEL 8hr TWA mg m3: 15          | Skin Designation: -        |
|         | NIOSH REL 10hr TWA ppm:             | NIOSH REL 10hr TWA mg m3:  |
|         | NIOSH REL 15 min ST ppm:            | NIOSH REL 15 min ST mg m3: |

**8.2. Exposure controls**

Appropriate engineering controls  
Individual protection measures  
Eye / face protection  
Skin protection - Hand protection

Skin protection - Other

Respiratory protection

Occupational exposure controls

Further information

Ensure adequate ventilation of the working area.

Use as appropriate: Protective equipment.

Use as appropriate: Suitable eye protection.

Use as appropriate: Chemical-resistant gloves made of any waterproof material. Wash the outside of gloves before removing them.

Use as appropriate: Protective clothing. Wash contaminated clothing, separately from other laundry, with detergent and water before reuse.

In case of insufficient ventilation, wear suitable respiratory equipment.

Dust may be irritating if inhaled.

Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Protect clothing from contact with the product. Provide chemical shower. Provide eye wash station.

Refer to product label for additional PPE requirements and recommendations. Follow label instructions

**9- Physical and Chemical Properties****9.1. Information on basic physical and chemical properties**

State - Powder

Color - Light green

Odor - Characteristic/Mild

Odor threshold - No data available

pH - 7.3 - 7.7

Melting point - No data available

Freezing Point - No data available

Initial boiling point - No data available

Flash point - No data available

Evaporation rate - No data available

Flammability limits - Combustible dust

Vapor pressure - No data available

Relative Vapour Density - No data available

Density / Relative Density - No data available

Partition coefficient (P) - No data available

Autoignition temperature No data available

Viscosity - Not applicable.

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Explosive properties - No data available  
Oxidizing properties - No data available  
Solubility - Soluble in water

## 9.2. Other information

Conductivity - No data available  
Surface tension - Not applicable.  
Gas group - No data available  
Benzene Content - No data available  
Lead content - No data available  
VOC (Volatile organic compounds) - No data available

## 10- Stability and Reactivity

- 10.1 .Reactivity - Stable under normal conditions.
- 10.2 .Chemical stability - Stable under normal conditions.
- 10.3 .Possibility of hazardous reactions - Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.
- 10.4 .Conditions to avoid - Avoid sparks, flames, heat and sources of ignition. Avoid formation of dust.  
Keep away from extreme temperatures. Protect from moisture. Protect from sunlight.
- 10.5 .Incompatible materials - Combustible materials.
- 10.6 .Hazardous decomposition products - Carbon oxides

## 11- Toxicological Information

### 11.1 Information on hazard classes

**Acute toxicity** Based on available data, the classification criteria are not met. However, this product does contain substance(s) that are classified as hazardous. For more information, see Section 3.

**Skin corrosion/irritation** May cause irritation to skin. May cause dermatitis.

**Serious eye damage/irritation** May cause irritation to eyes.

**Respiratory or skin sensitization** May cause allergic reactions in susceptible people. May cause sensitization by skin contact.

**Germ cell mutagenicity** No mutagenic effects reported.

**Carcinogenicity** No components at >0.01% are listed in the American Conference of Governmental Industrial

Hygienists (ACGIH) Guide to Occupational Exposure Values.

No components at >0.01% are listed in the International Agency for Research on Cancer (IARC) Monographs.

No components at >0.01% are listed in the National Toxicology Program (NTP) Report on Carcinogens.

Not listed in the OSHA standard 1910.1003 Carcinogens.

**Reproductive toxicity** No teratogenic effects reported.

**STOT-single exposure** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**STOT-repeated exposure** No Significant Hazard.

**Aspiration hazard** No Significant Hazard.

Repeated or prolonged exposure Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of

**hypersensitivity** (difficult breathing, coughing, asthma) are possible.

11.1.2 .Mixtures - See Section(s) 3 for further information.

11.1.3 .Hazard Information - See Section(s) 2 and 3 for further information.

11.1.4 .Toxicological information - No data available

11.1.5 .Hazard Class - See Section(s) 2 and 14 for further information.

11.1.6 .Classification Criteria

Based on the Globally Harmonized System (GHS) considerations for the classification of mixtures .

See Section 15 for regulatory citations.

11.1.7 .Information on likely routes of exposure

Eye contact. Skin contact. Inhalation. Ingestion.

11.1.8 .Symptoms related to the physical, chemical and toxicological characteristics

See Section(s) 4.2 for further information.

11.1.9 .Delayed and immediate effects as well as chronic effects from short and long-term exposure

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See Section(s) 4.2 for further information.

11.1.10 .Interactive effects - No data available.

11.1.11 .Absence of specific data

1%>of this mixture consists of ingredients of unknown acute toxicity.

11.1.12 .Mixture versus substance information

See Section(s) 3 for further information.

11.1.13 .Other information - No data available.

11.2 Information on other hazards - No data available.

## 12- Ecological Information

12.1 .Toxicity - No data available

12.2 .Persistence and degradability - No data is available on this product.

12.3 .Bioaccumulative potential - No data is available on this product.

12.4 .Mobility in soil - No data is available on this product.

12.5 .Results of PBT and vPvB assessment - No data is available on this product.

12.6 Endocrine disrupting properties - No data is available on this product.

12.7 Other adverse effects - Specific test data for the substance or mixture is not available.

Further information - Keep out of lakes, ponds, or streams

## 13- Disposal Considerations

### 13.1 .Waste treatment methods

Dispose of in compliance with all local and national regulations. Follow label instructions.

Disposal methods

Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.

Disposal of packaging

Nonrefillable container. Do not reuse or refill this container.

If empty: Do not reuse this container. Place in trash or offer for recycling, if available.

If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

Further information

Refer to product label and/or package insert for additional information. Follow label instructions

## 14- Transport Information

14.1 .UN number

The product is not classified as dangerous for carriage.

14.2 .UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

14.3 .Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4 .Packing group

The product is not classified as dangerous for carriage.

14.5 .Environmental hazards

The product is not classified as dangerous for carriage.

14.6 .Special precautions for user

The product is not classified as dangerous for carriage.

14.7 Maritime Transport in bulk according to IMO instruments

The product is not classified as dangerous for carriage.

## 15- Regulatory Information

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

Regulations

Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.

Chemical Inventories/Right-to-Know Lists:

Contact SDS@neogen.com for additional information. Please specify country or region with your request.

California Prop 65: This product does not contain reportable substances at >0.0001%

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concentration.

#### Inventories

| Ingredient                                                                                                       | TSCA | MA | SARA313 | CALPROP65 | CWA307 | CAA112 | CWA311 | SARA302 | SARA304 |
|------------------------------------------------------------------------------------------------------------------|------|----|---------|-----------|--------|--------|--------|---------|---------|
| Sucrose (.alpha.-D-Glucopyranoside, .beta.-D-fructofuranosyl)                                                    | Y    | N  | N       | N         | N      | N      | N      | N       | N       |
| Sodium thiosulfate, anhydrous (Thiosulfuric acid (H <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ), disodium salt) | Y    | N  | N       | N         | N      | N      | N      | N       | N       |
| Ferric ammonium citrate (1,2,3-Propanetricarboxylic acid, 2-hydroxy-, ammonium iron(3+) salt)                    | Y    | N  | N       | N         | N      | N      | Y      | N       | N       |

## 16- Other Information

### Acronyms ADR/RID:

European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).  
CAS No.: Chemical Abstracts Service.  
CLASS: Classification, Labeling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013 (Malaysia).  
FIFRA: U.S. Federal Insecticide, Fungicide, and Rodenticide Act.  
GHS: Globally Harmonized System.  
HCS 2012: Hazard Communication Standard (2012 revision).  
IATA: International Air Transport Association.  
ICAO: International Civil Aviation Organization.  
IMDG: International Maritime Dangerous Goods.  
LD: Lethal dose.  
OEL: Occupational exposure limit.  
OSHA: U.S. Occupational Safety and Health Administration.  
PEL: Permissible Exposure Limit.  
REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals.  
STOT: Specific Target Organ Toxicity.  
SVHC: Substance of very high concern.  
US DOT: United States Department of Transportation.  
VOC: Volatile Organic Compound.  
WEL: Workplace Exposure Limit.

### Text of Hazard Statements in Section 3

Skin Irrit. 2: H315 - Causes skin irritation.  
Eye Irrit. 2: H319 - Causes serious eye irritation.  
Skin Sens. 1: H317 - May cause an allergic skin reaction

**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.**