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Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name HES H843 DX PRO-BAC

Other means of identification

SDS # H843

Recommended use of the chemical and restrictions on use

Recommended Use Concentrated Probiotic Bacteria

Uses Advised Against For industrial and institutional use only.

Details of the supplier of the safety data sheet

Supplier Address

HES Healthcare Environmental Solutions
320 37th Avenue
St. Charles, IL 60174
www.healthenvirosolutions.com

Emergency Telephone Number

Company Phone Number 1-800-654-1692 (to reorder)

Emergency Telephone (24 hr) INFOTRAC 1-800-535-5053 (North America)

1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

Appearance Colorless liquid

Physical State Liquid

Odor Unscented

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

Signal Word

None.

Hazard Statements

None.

Precautionary Statements

Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves and eye protection.

Response

If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Storage

None.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not otherwise classified (HNOC)

Not applicable.

Other information

May cause mild skin irritation. Repeated or prolonged skin contact may cause allergic reactions in susceptible persons.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a buffered and preserved aqueous solution containing naturally-occurring viable bacterial cultures.

4. FIRST-AID MEASURES**First Aid Measures**

Eye Contact	Rinse thoroughly with plenty of water, also under eyelids. If symptoms persist, call a physician.
Skin Contact	Wash with soap and water. May cause an allergic skin reaction. In case of skin irritation or allergic reactions, see physician.
Inhalation	Remove to fresh air.
Ingestion	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.

Most important symptoms and effects

Symptoms	May cause itching, rashes, and/or hives on susceptible persons.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	May cause sensitization of susceptible persons. Treat symptomatically.
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5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

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

Unsuitable Extinguishing Media Caution: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical

Product may cause sensitization by skin contact on susceptible persons.

Hazardous Combustion Products Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No
Sensitivity to Static Discharge No

Protective equipment and precautions for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Avoid contact with skin and eyes.
Environmental Precautions	Refer to protective measures listed in Section 7 and 8.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean-Up	Pick up and transfer to properly labelled containers. Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practices. Avoid prolonged contact with skin and eyes.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed.
Incompatible Materials	Strong acids and alkalis, and strong oxidizing agents may react with product and inactivate bacterial cultures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

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

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls	Showers, Eyewash stations, Ventilation systems.
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Individual protection measures, such as personal protective equipment

Eye/Face Protection	None required for consumer use. If splashes are likely to occur, wear safety glasses with side-shields.
Skin and Body Protection	None required for consumer use. Repeated or prolonged contact: Wear protective gloves and protective clothing.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Turbid/Viscous liquid
Color	Colorless
Odor	Characteristic

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	6.5 – 8.8	
Melting Point/Freezing Point	No information available.	
Boiling Point/Boiling Range	100 °C / 212 °F	
Flash Point	None	
Evaporation Rate	No information available	
Flammability (Solid, Gas)	None	
Upper Flammability Limits	No information available.	
Lower Flammability Limit	No information available.	
Vapor Pressure	No information available.	
Vapor Density	No information available.	
Specific Gravity	1.00	
Water Solubility	Dispersible	
Solubility in other solvents	No information available.	
Partition Coefficient	No information available.	
Auto-ignition Temperature	No information available.	
Decomposition Temperature	No information available.	
Kinematic Viscosity	No information available.	
Dynamic Viscosity	No information available.	
Explosive Properties	No information available.	
Oxidizing Properties	No information available.	
Viscosity	Water-thin	
VOC Content	None.	

10. STABILITY AND REACTIVITY

Reactivity

No information available.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Do not expose to extreme temperatures for long periods of time. Close containers when not in use.

Incompatible Materials

Strong acids and alkalis, and strong oxidizing agents may react with product and inactivate bacterial cultures.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact

Specific test data for the mixture is not available.

Skin Contact

Specific test data for the mixture is not available. May cause sensitization by skin contact on prolonged exposure on susceptible persons.

Inhalation Specific test data for the mixture is not available.

Ingestion Specific test data for the mixture is not available.

Component Information

No information available.

Information on physical, chemical and toxicological effects

Symptoms Possible itching, rashes, and hives on susceptible persons.

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

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Sensitization May cause sensitization of susceptible persons. May cause sensitization by prolonged skin contact.

Mutagenic Effects No information available.

Reproductive Toxicity No information available.

STOT-Single Exposure No information available.

STOT-Repeated Exposure No information available.

Chronic Toxicity No known effect based on available information.

Target Organ Effects Skin.

Aspiration Hazard No information available.

Numerical measures of toxicity

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

This product is not expected to be dangerous to the environment.

Persistence/Degradability

This product is not expected to be dangerous to the environment.

Bioaccumulation

This product is not expected to be dangerous to the environment.

Mobility

This product is not expected to be dangerous to the environment.

Other Adverse Effects

None known.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes This material, as supplied, is not a hazardous waste according to Federal Regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult with the appropriate State, Regional, or Local regulations for additional requirements.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT
Proper shipping name Not regulated.
Hazard Class Not regulated.
 Not applicable.

IATA Not regulated.

IMDG Not regulated.

15. REGULATORY INFORMATION

International Inventories

TSCA Complies.
DSL Not all biological components are listed on the DSL.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL - Canadian Domestic Substances List

US Federal Regulations

SARA 311/312 Hazardous Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemical at reportable levels, which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or State level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. State Right-to-Know Regulations

This product does not contain any substances above threshold limits that are regulated by State right-to-know.

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards No information available	Flammability No information available	Instability No information available	Special Hazards No information available
<u>HMIS</u>	Health Hazards 1	Flammability 0	Physical Hazards 0	Personal Protection B
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Revision Note:	New Format			

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet