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Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier**Product Name** HES H842 PROKARYOTIC DX**Other means of identification****SDS #** HES – H842**Recommended use of the chemical and restrictions on use****Recommended Use** Dialysis Drain Treatment**Uses Advised Against** For institutional and industrial 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** INFOTRAC 1-800-535-5053 (North America)

1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

Appearance Milky white liquid**Physical state** Liquid**Odor** Pleasant, spicy scent**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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is not hazardous according to OSHA 29 CFR 1910.1200. Components not listed are not hazardous or are below reportable limits.

4. FIRST AID MEASURES

Description of first aid measures**Eye Contact** Flush with plenty of water for at least 15 minutes and call a physician or poison control center.**Skin Contact** Wash with soap and water. If irritation persists, call a physician or poison control center.**Inhalation** Remove to fresh air.

Ingestion	Rinse mouth and throat. Give two glasses of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician or Poison Control Center.
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Most important symptoms and effects, both acute and delayed

Symptoms	May cause eye irritation. May cause irritation to sensitive skin. Swallowing large amounts, more than a few ounces, may cause nausea, upset stomach and vomiting.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water, foam, carbon dioxide, dry powder.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Not determined.

Hazardous combustion products None.

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 Use personal protective equipment as required.

Environmental precautions**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 Dilute with water and flush to a sewage drain. Do not use high-pressure water jet.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practices. Wear gloves if exposure is prolonged. Wash hands after use. Care should be taken to ensure the product is not introduced to drinking water or foodstuffs.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep this product in a properly labeled, tightly closed container and store in a cool, dry place.

Incompatible Materials Do not expose to germicides or disinfectants. No dangerous reaction will occur, but this product will be inactivated. Do not mix with oxidizers such as bleach.

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

Appropriate engineering controls

Engineering Controls Normally not required.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Normally not required, recommended if splashing is possible or handling large quantities.

Skin and Body Protection Normally not required, recommended wearing gloves if exposure is prolonged.

Respiratory Protection Normally not required.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Odor	Pleasant, spicy scent
Appearance	Milky white liquid	Odor Threshold	Not determined
Color	Milky white		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	6.8-7.8		
Melting point / freezing point	Not available		
Boiling point / boiling range	100 °C / 212 °F		
Flash point	None		
Evaporation Rate	1	(n-BuAc =1)	
Flammability (Solid, Gas)	Liquid- Not applicable		
Flammability Limit in Air			
Upper flammability or explosive limits	Not determined		
Lower flammability or explosive limits	Not determined		
Vapor Pressure	As for H2O		
Vapor Density	Not available		
Relative Density	1.01		
Water Solubility	Dispersible		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Autoignition temperature	Not determined		
Decomposition temperature	Not determined		
Kinematic viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		
VOC Content	None		

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Keep out of reach of children.

Incompatible materials

Do not expose to germicides or disinfectants. No dangerous reaction will occur, but this product will be inactivated. Do not mix with oxidizers such as bleach.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

Eye Contact Avoid contact with eyes.

Skin Contact Avoid contact with skin.

Inhalation Do not inhale.

Ingestion Do not ingest.

Component Information

Not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Please see section 4 of this SDS for symptoms.

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

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

Not determined.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Not determined.

Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

Mobility

Not determined.

Other Adverse Effects

Not determined.

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods****Disposal of Wastes**

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

Contaminated Packaging

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

14. TRANSPORT INFORMATION**Note**

Please see current shipping paper for most up-to-date shipping information, including exemptions and special circumstances.

DOT

Not regulated.

IATA

Not regulated.

IMDG

Not regulated.

15. REGULATORY INFORMATION**International Inventories**

All ingredients are listed or exempt from listing on the Chemical Substance Inventory.

US Federal Regulations**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals that are 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)

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 regulated under applicable state right-to-know regulations

16. OTHER INFORMATION**NFPA****HMIS****Health Hazards**

Not determined

Health Hazards

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Flammability

Not determined

Flammability

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Instability

Not determined

Physical hazards

0

Special Hazards

Not determined

Personal Protection

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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 a 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