

1. IDENTIFICATION

Product Name: Spore Suspension

Product Type or Synonym: Spore suspension

Product Description: Bacterial spores suspended in water or 40% food-grade ethanol

Note: Device contains ethanol but no pathogenic microorganisms.

Manufactured by:	Mesa Laboratories, Inc.	Australia & New Zealand Supplier	
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2. HAZARDS IDENTIFICATION

Carcinogen Status: Not classified as a human carcinogen.

Skin Contact: No evidence of harmful effects from available information.

Eye Contact: May cause irritation including stinging, tearing and redness.

Inhalation: High vapor concentration may cause burning sensation in nose and throat.

Ingestion: May cause dizziness, faintness, drowsiness, decreased awareness or responsiveness, nausea, vomiting, staggering gait, lack of coordination and coma.

3. COMPOSITION/INFORMATION ON INGREDIENTS

% WT	Material	CAS	Exposure Limits
62.1%	water	7732-18-5	None established
37.9%	Ethanol	64-17-5	1000 ppm TWA

4. FIRST AID MEASURES

Skin Contact: Wash skin with soap and water at least 15 minutes.

Eye Contact: Flush eyes with water.

Inhalation: Remove to fresh air.

Ingestion: If patient is fully conscious, give two glasses of water. Induce vomiting. Obtain medical attention.

Note to Physician: Symptoms vary with alcohol level of the blood. Mild alcohol intoxication occurs at blood levels between 0.05-0.15%.

5. FIRE FIGHTING MEASURES

Fire/Explosive Properties

Flash Point: 40% = 26°C/78.8°F

Flammable Limits in Air for 100%: 3.3-19.0% (by volume) (limits for 40% solution not available)

Flammable Classification for 100% ethanol: 3 (NFPA)

1993 Emergency Response Guidebook: Guide 26

1996 North American Emergency Response Guidebook: Guide 127

Extinguishing Media: Use carbon dioxide or dry chemical media for small fires

Special Fire Fighting Procedures: Use water spray to cool fire exposed containers and structures

6. ACCIDENTAL RELEASE MEASURES

Small spills can be flushed with large amounts of water.

7. HANDLING AND STORAGE

Suspension Type	Storage Conditions
Aqueous	2-8°C
29% Ethanol	2-8°C
40% Ethanol	-25° to -10°C

Ethanol is a flammable material. Keep away from open flames, process equipment operating at elevated temperature which may result in ignitions without the presence of obvious ignition sources. Avoid contact with eyes. Keep container closed. Use adequate ventilation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: N/A

Specific Engineering Controls: N/A

Personal Protective Equipment: appropriate gloves and safety glasses should be worn when removing this product from the sterilizer.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear liquid

Appearance: colorless

Odor: Mild

pH: Not available

Vapor Pressure: @ 20°C: 44.6mm Hg for 100% ethanol (vapor pressure for 40% solution not available)

Vapor Density: 1.6 (air = 1) for 100% ethanol (vapor density for 40% solution not available)

Evaporation Rate: 3.3 (butyl acetate = 1) for 100% ethanol

Boiling Point: approximately 87°C @ 76 mm Hg

Freezing/Melting Point: -18°C

Decomposition Temperature: Not available

Solubility in Water: 100% @ 20°C

Specific Gravity/Density: 0.9653 @ 15.56°C

10. STABILITY AND REACTIVITY

Chemical Stability: Yes

Incompatibility: Strong oxidizing agents, strong inorganic acids

Hazardous Decomposition Products: Carbon monoxide and/or carbon dioxide

Reactivity: N/A

11. TOXICOLOGICAL INFORMATION

Affects of Acute Exposure: N/A

Affects of Chronic Exposure: N/A

Irritancy of Product: N/A

Skin Sensitization: N/A

Respiratory Sensitization: N/A
Carcinogenicity: N/A
Reproductive Toxicity: N/A
Teratogenicity: N/A
Embryotoxicity: N/A
Mutagenicity: N/A
Synergistic Products: N/A

12. ECOLOGICAL INFORMATION

This product contains no known ecological hazards. The microorganisms it contains are non-pathogenic and found in nature.

13. DISPOSAL

Consult state and local hazardous waste regulations to ensure complete and accurate information.

14. TRANSPORT

No special shipping precautions.

15. REGULATORY INFORMATION

N/A

16. OTHER INFORMATION

See instructions for use delivered in each box of product.

Prepared By:

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