

**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.

<b>Manufactured by:</b>	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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