

**MATERIAL SAFETY DATA SHEET**  
PRECISION LABORATORIES, INC.



Updated: December 21, 2010  
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**Product Name: FS MSO ULTRA™ - Methylated Soy Oil Plus Surfactant Blend**

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: **FS MSO Ultra™**  
Manufactured by: **PRECISION LABORATORIES, INC.**  
1429 S. SHIELDS DRIVE  
WAUKEGAN, IL 60085

Emergency telephone number: (Chemtrec Information 24 hours) 1-800-424-9300  
For MSDS, Product Safety, or (Technical Support on Product) 1-800-323-6280  
Regulatory inquiries, call:

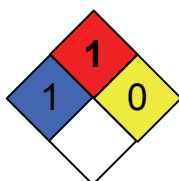
**2. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>Component</u>	<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>% By Wt.</u>
Methyl ester, surfactant blend w/formulation aid	Proprietary	N/A	N/E	100%
N-Butanol	71-36-3	100 ppm (trans)	50 ppm	

**3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:**

NFPA Hazard Rating:



**Primary Routes of Exposure:**

Eyes: **Yes**

Skin: **Yes**

Oral: **Yes**

Inhalation: **Unlikely**

**Signs and Symptoms of Exposure:**

Eye contact: May cause irritation and reddening, tearing and blurred vision.  
Skin contact: May cause irritation and reddening and swelling with prolonged contact.  
Inhalation: May cause respiratory and mucosal irritation.  
Ingestion: May cause nausea, vomiting and diarrhea.

**4. FIRST AID MEASURES**

**FIRST AID MEASURES FOR ACCIDENTAL EXPOSURE**

**Eye Exposure:** Check for and remove contact lenses. Immediately flush eyes with water for at least 15 minutes. Cold water may be used. Seek immediate medical attention.

**Skin Exposure:** Immediately remove contaminated clothing and wash affected area with plenty of soap and water. Cold water may be used. Seek immediate medical attention.

**Inhalation:** Move individual to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek immediate medical attention.

**Ingestion: Do not induce vomiting unless directed to do so by medical personnel.** If individual is fully conscious, give a large amount of water to drink. Never give fluids or force vomiting if the person is unconscious, is having convulsions or has no gag reflex. Seek immediate medical attention.

**Medical Conditions Aggravated by Overexposure:** None known.

**5. FIRE-FIGHTING MEASURES**

**FIRE HAZARD DATA:**

**Flammability:** N/A **LEL:** N/D **UEL:** N/D  
**Auto-ignition temperature:** N/D  
**Flash Point:** >200°F (closed cup, D-56)

**Extinguishing Media:** Water spray, foam, CO<sub>2</sub>, or dry chemicals may be used in areas where this product is stored. Use water spray to cool fire-exposed containers and to protect personnel.

**Special Fire Fighting Procedures:** Firefighters should wear NIOSH/OSHA approved self-contained breathing apparatus and full protective clothing. Heat may build pressure and rupture closed containers, spreading fire and increasing the risk of injury. Notify proper authorities if liquid material enters the sewer or public water.

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## 6. ACCIDENTAL RELEASE MEASURES

Evacuate the spill area, except for cleanup personnel. Wear NIOSH/OSHA-approved respirator and protective equipment as referenced in Section 8 below. Control spill with adsorbent pads or booms. Recover free liquid. For recovery or disposal, add inert absorbent (sand, earth, sawdust, etc.) to spill area and shovel into containers for disposal. Product is slippery under foot; flush smooth surfaces thoroughly. See Section 13 for disposal considerations.

## 7. HANDLING AND STORAGE

**Precautions to be Taken in Handling:** Keep away from heat, sparks and flame. Keep container closed. Wear appropriate equipment and clothing to prevent eye contact and repeated or prolonged skin contact as referenced in Section 8 below. Use in areas with adequate mechanical exhaust ventilation, or wear respirator.

**Precautions to be Taken in Storage:** Protect product from freezing. Keep containers sealed when not in use. Store in original container only.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Note:** When selecting personal protective equipment and clothing, follow all of the manufacturer specifications and recommendations that apply to your specific operation and processing conditions. Take into consideration all working conditions and all chemicals to be handled or processed.

**Eye Protection:** Wear splash-proof chemical safety goggles. Contact lenses should not be worn when working with chemicals.

**Skin Protection:** Wear chemically impervious gloves, long-sleeved shirt, pants, shoes and socks to minimize skin contact. As precautions, wash hands and face with mild soap and water before eating, drinking, smoking or using restroom. After each shift, clean all protective equipment, wash work clothes, and shower.

**Inhalation Protection:** Not required under normal use conditions with good ventilation. Protect against spray mists. Respirator recommended in areas of poor ventilation.

**Personal Protection in Case of Large Spill:** Splash goggles. Full suit. Boots, gloves.

**Other Protection:** Eye wash fountains and drench showers should be located within 100 feet or a 10 second walk or the work area per ANSI Z358.1-1990. Keep vapor concentration below 50 ppm, General dilution recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical Appearance &amp; Odor:</b>	Clear, Straw-colored liquid with fatty ester/alcohol odor.
<b>Boiling Point:</b>	>200°F
<b>Specific Gravity:</b>	0.912
<b>pH:</b>	5.5 ± 6.5
<b>Solubility in Water:</b>	Dispersible.

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable.
<b>Incompatibility:</b>	Strong oxidizing agents. Isolate from open flame and heat. Keep material away from aluminum metal, oleum and nitroform.
<b>Hazardous Decomposition Products:</b>	Incomplete combustion may yield carbon monoxide, carbon dioxide and other hazardous gas.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Conditions to Avoid:</b>	N/A

## 11. TOXICOLOGICAL INFORMATION

No toxicological data is available for this product.

## 12. ECOLOGICAL INFORMATION

No ecological data is available for this product.

## 13. DISPOSAL CONSIDERATIONS

**Disposal Methods:** Dispose of material in compliance with applicable federal, state and local environmental regulations. Recycle or rework material if at all possible. Incinerate material at an approved facility, or treat at an acceptable waste treatment facility or municipal waste treatment plant after proper testing and approval of waste samples.

**Container Reuse:** An empty container can contain product residue, and should be not reused. If not professionally cleaned and reconditioned, crushing or other means is recommended to prevent unauthorized reuse. Discarded product is not an RCRA hazardous waste under 40 CFR 261.

## 14. TRANSPORT INFORMATION

<b>DOT Status (Highway and rail):</b>	N/E
<b>IATA Status (Air):</b>	N/E

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**15. REGULATORY INFORMATION**

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<b>SARA HAZARD:</b>	Sara Title III, 40 CFR 355, Extremely Hazardous Substances – None; 40 CFR Part 370, Hazardous Chemical Reporting – Applicable. EPA Hazard Categories: Immediate Health – Yes; Delayed Health – No; Fire – No; Sudden Pressure Release – No; Reactive – No; 40 CFR 372, Toxic Chemicals, Ammonium Nitrate, Case No. 6484-52-2, 32%.
<b>AICS (Australia):</b>	Components listed.
<b>DSL (Canada):</b>	Components listed.
<b>EINECS (Europe):</b>	Components listed.
<b>TSCA:</b>	Components listed.

**WHILE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO BE ACCURATE AS OF THE DATE HEREON, PRECISION LABORATORIES, INC., MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.**

**N/R—Not Rated**  
**N/D—Not Determined**  
**N/A—Not Applicable**  
**N/E—Not Established**