

MATERIAL SAFETY DATA SHEET

PRECISION LABORATORIES, INC.



Updated: October 19, 2011
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Product Name: FS AMS MAX™ - Nonionic Surfactant Plus Ammonium Sulfate

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **FS AMS MAX™**
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:

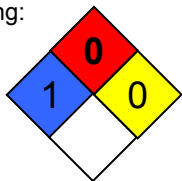
2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>% By Wt.</u>
Diammonium sulfate				>30
Proprietary surfactant + antifreeze				20
Water				~50

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

NFPA Hazard Rating:



Primary Routes of Exposure:

Eyes: **Yes**

Skin: **Yes**

Oral: **Unlikely**

Inhalation: **Unlikely**

Signs and Symptoms of Exposure:

Eye contact: May cause slight to moderate irritation.
Skin contact: May cause slight to moderate irritation.
Inhalation: No effects known.
Ingestion: No effects known.

4. FIRST AID MEASURES

FIRST AID MEASURES FOR ACCIDENTAL EXPOSURE

Eye Exposure: Flush eyes with water for at least 15 minutes. Seek medical attention if irritation develops or persists.

Skin Exposure: Wash with soap and water for at least 5 minutes. Seek medical attention if irritation develops or persists.

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

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. If conscious and alert, give individual 1–2 glasses of water to drink. Never give fluids of force vomiting if person is unconscious, is having convulsions or has no gag reflex. Do not leave individual unattended. Seek medical attention.

5. FIRE-FIGHTING MEASURES

FIRE HAZARD DATA:

Flammability: N/E

LEL: N/E

UEL: N/E

Auto-ignition temperature: N/E

Flash Point: Product is noncombustible.

Extinguishing Media: CO₂ or dry chemicals may be used in areas where this product is stored. Water spray is not recommended.

Special Fire Fighting Procedures: None.

Additional Fire and Explosive Data: Containers may rupture when exposed to high heat.

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6. ACCIDENTAL RELEASE MEASURES

Evacuate the spill area, except for cleanup personnel. Wear NIOSH/MSHA-approved protective equipment as referenced in Section 8 below. Control spill with adsorbent pads or booms, prevent from entering waterways. 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 repeated or prolonged skin contact as referenced in Section 8 below. Avoid direct or prolonged contact with skin or eyes and avoid breathing mists, dusts or vapors. Use in areas with adequate mechanical exhaust ventilation, or wear NIOSH/MSHA-approved respirator. Wash hands thoroughly after handling.

Precautions to be Taken in Storage: Product should be stored in a dry place with good ventilation. Partially used containers should be resealed between uses for maximum storage stability.

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 chemical goggles or full face shield as necessary.

Skin Protection: Wear chemically impervious gloves, long-sleeved shirt, pants, socks and shoes 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:

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.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance & Odor:	Yellow liquid.
Boiling Point:	N/D
pH:	5-7 at 1% wt/wt%
Specific Gravity:	>10 lb./gal.
Solubility in Water:	Soluble.

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions.
Incompatibility:	Strong oxidizing and reducing agents. Strong acids. Potassium chlorate. Chromium trioxide. Potassium permanganate.
Hazardous Decomposition Products:	Oxides of carbon, nitrogen and sulfur; acrolein.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Open flames, sparks and moisture.

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

Container Reuse: An empty container can contain product residue, and should not be reused. If not professionally cleaned and reconditioned, crushing or other means is recommended to prevent unauthorized reuse.

14. TRANSPORT INFORMATION

DOT Status (Highway and rail):	Not regulated.
IATA Status (Air):	N/D

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15. REGULATORY INFORMATION

SARA HAZARD:	N/D
AICS (Australia):	Components listed.
DSL (Canada):	Components listed.
EINECS (Europe):	Components listed.
TSCA:	Components listed.

<p>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.</p>

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