

SAFETY DATA SHEET

GROWMARK, INC.

Updated: June 13, 2018

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	FS AMS MAX™
Manufactured for:	Growmark, Inc. 1701 Towanda Ave. Bloomington, IL 61701
Product Use:	Nonionic Surfactant plus AMS
Emergency telephone number:	(Chemtrec Information 24 hours) (800) 424-9300
Customer Service, call:	(847) 596-3001

2. HAZARDS IDENTIFICATION

GHS Classification:

Acute Toxicity, Category 4 (oral), H302

Skin Irritation, Category 2, H315

Eye Irritation, Category 2B, H320



H302,H315

Signal Word: Warning

Hazard Statements:

H302: Harmful if swallowed.

H315: Causes skin irritation.

H320: Causes eye irritation.

Precautionary Statements:

Prevention

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

P264: Wash protective equipment and work clothes thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves.

Response

P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor or Chemtrec if person feels unwell.

P302+P352: IF ON SKIN: Wash with plenty of water.

P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.

P321: Treat symptomatically.

P330: Rinse mouth.

P332+P313: If skin irritation occurs: Get medical advice or attention.

P337+P313: If eye irritation persists: Get medical attention or advice.

P362+P364: Take off contaminated clothing and wash it before reuse.

Disposal

P501: Dispose of contents/container to disposal plant in accordance with federal, state and local regulations.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Weight %
Diammonium Sulfate	7783-20-2	>30%
Proprietary Surfactant Blend	Proprietary	15–25%
Water	7732-18-5	45–55%

4. FIRST AID MEASURES

- If Swallowed: Call a POISON CENTER/doctor or Chemtrec if person feels unwell. Rinse mouth. Have person sip a glass of water if able to swallow. Do not induce vomiting, unless told to by a poison control center or doctor. Do not give anything to an unconscious person.
- If On Skin: Wash affected area with plenty of soap and water. Use tepid water if available. If skin irritation occurs: Get medical advice or attention. Treat symptomatically. Take off contaminated clothing and wash it before reuse.
- If Inhaled: Move person to fresh air. If person is having difficulty breathing, give oxygen. If not breathing, give artificial respiration.
- If In Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention or advice.
- Medical Conditions Aggravated by Overexposure: None known.
- Other Effects: No information was found in connection with medical conditions aggravated by exposure. This product is not a carcinogen by NTP, OSHA and ACGIH.
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5. FIREFIGHTING MEASURES

- Suitable Extinguishing media: Carbon dioxide or dry chemical for small fires. Water jet not recommended.
- Specific Hazards: Containers may rupture when exposed to high heat.
- PPE and Precautions: Incipient fire responders should wear eye protection. Structural firefighters must wear self-contained breathing apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.
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6. ACCIDENTAL RELEASE MEASURES

- In Case of Spill: Evacuate the spill area except for clean-up personnel. Contain spill if safe to do so. Prevent entry into drains, sewers, and other waterways. Soak up with an absorbent material and place in an appropriate container for disposal.
- Disposal: Dispose of collected waste in accordance with federal, state and local regulations.
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7. HANDLING AND STORAGE

Wash thoroughly after handling this product. This product does not require heated storage. Keep containers sealed when not in use. Store in original container only. Do not reuse empty container. Rinse container thoroughly prior to disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits: Glycerine
ACGIH TWA: 10 mg/m³

Currently, International exposure limits are not established for all the components of this product. Please check with competent authority in each country for the most recent limits in place.

Engineering Controls: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below. Use local exhaust ventilation to control airborne vapor. Ensure eyewash/safety shower stations are available near areas where this product is used.

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- Eye/Face Protections:** Wear splash-proof chemical safety goggles. Contact lenses should not be worn when working with chemicals.
- Skin Protection:** Wear chemical-resistant 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.
- Respiratory Protection:** Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93.
- General Protection:** Eye wash fountains and drench showers should be located within a 10 second walk from the work area per ANSI Z358.1-2009.
- 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 wash fountains and drench showers should be located within a 10 second walk from the work area per ANSI Z358.1-2009.
- Personal Protection in Case of Large Spill:** Splash goggles, full suit, boots and gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear yellow liquid	UEL:	N/D
Odor:	Mild odor	LEL:	N/D
Odor Threshold:	N/D	Vapor Pressure:	N/D
pH:	5-7 at 1% wt/wt%	Vapor Density:	N/D
Melting Point:	N/D	Relative Density (lbs/gl):	10.11 ± 0.06
Freezing Point:	<-5°C	Solubility:	Dispersible in water
Boiling Point:	N/D	Partition Coefficient:	N/D
Flash Point:	None	Autoignition Temperature:	N/D
Evaporation Rate:	N/D	Decomposition Temperature:	N/D
Flammability:	N/D		

10. STABILITY AND REACTIVITY

- Stability:** Stable
- Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- Condition to Avoid:** Contact with incompatible materials, moisture.
- Incompatible Materials:** Strong oxidizing and reducing agents, strong acids, potassium chlorate, chromium trioxide and potassium permanganate.
- Hazardous Decomposition Products:** When heated to decomposition this product produces oxides of carbon, nitrogen and sulfur, acrolein.
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11. TOXICOLOGICAL INFORMATION

Toxicity data is available for the following components:

CAS# 7783-20-2 Oral LD50 640 mg/kg Mouse

Suspected Cancer Agent

None of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

Irritancy of Product

Contact with this product can be irritating to exposed skin, eyes and respiratory system.

Sensitization of Product

This product is not considered a sensitizer.

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Reproductive Toxicity Information

No information concerning the effects of this product and its components on the human reproductive system.

12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

Environmental Stability: No Data available at this time.

Effect of Material on Plants or Animals: No evidence is currently available on this product's effects.

Effect of Chemical on Aquatic Life: No evidence is currently available on this product's effects on aquatic life.

13. DISPOSAL CONSIDERATIONS

Component Waste Numbers: No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions: Recycle or rework material if at all possible. Treat at an acceptable waste treatment facility, or municipal waste treatment plant, after proper testing and approval of waste samples in compliance with applicable federal, state, and local regulations. Do not reuse empty container as it may contain product residue. Rinse container thoroughly prior to disposal. Dispose of rinsate and container in accordance with local, state and federal 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): Not Regulated

Marine Pollutant: No

15. REGULATORY INFORMATION

UNITED STATES REGULATIONS

SARA Reporting Requirements: This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: None

TSCA: All

SARA 311/312:

Acute Health: Yes Chronic Health: No Fire: No Reactivity: No

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): None of the ingredients are on the California Proposition 65 lists.

CANADIAN REGULATIONS:

CANADIAN DSL/NDL INVENTORY STATUS: All of the components of this product are on the DSL Inventory

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: No component of this product is on the CEPA First Priorities Substance Lists.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: This is not considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and is therefore subject to the labeling and MSDS requirements of the Workplace Hazardous Materials Information System (WHMIS).

INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac: Listed

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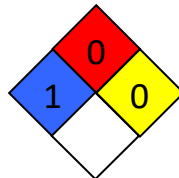
Australian Inventory of Chemical Substances (AICS): Listed
Korean Existing Chemicals List (ECL): Listed
Japanese Existing National Inventory of Chemical Substances (ENCS): Listed
Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed
Swiss Giftlist List of Toxic Substances: Listed

16. OTHER INFORMATION

HMIS Hazard Rating

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	X

NFPA Rating



Date Prepared: December 24, 2013

Last Updated: June 13, 2018

WHILE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO BE ACCURATE AS OF THE DATE HEREON, GROWMARK, 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

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.