

SAFETY DATA SHEET

MFA, INC.

Updated: May 28, 2015

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Astute®
Manufactured for:	MFA, Inc. 201 Ray Young Drive Columbia, MO 65201
Product Use:	Nonionic Surfactant
Emergency telephone number:	(Chemtrec Information 24 hours) (800) 424-9300
Customer Service, call:	(847) 596-3001

2. HAZARDS IDENTIFICATION

GHS Classification:

Eye Irritation, Category 2B, H320

Signal Word: Warning

Hazard Statements:

H320: Causes eye irritation.

Precautionary Statements:

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.

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>Weight %</u>
Mixture	Proprietary	100%

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 any fluids to an unconscious person.

In 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.

If Inhaled: Move person to fresh air. If person is having difficulty breathing, give oxygen. If not breathing, give artificial respiration. Call a POISON CENTER/doctor or Chemtrec if person feels unwell.

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 advice or attention.

Medical Conditions Aggravated by Overexposure: Repeated or prolonged exposure is not known to aggravate medical condition.

Other Effects: This product is not a carcinogen by NTP, OSHA and ACGIH.

5. FIREFIGHTING MEASURES

Suitable Extinguishing media: Water spray, water fog, dry chemical, foam, CO₂ or sand/earth to extinguish flames.

Specific Hazards: Combustion may yield carbon dioxide and carbon monoxide.

PPE and Precautions: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

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6. ACCIDENTAL RELEASE MEASURES

In Case of Spill: Stop the flow of material, if this is without risk. Isolate area. Keep unnecessary personnel away. Absorb with an inert material such as sand, soil, or vermiculite and sweep up.

Disposal: Dispose of collected waste in accordance with federal, state and local regulations.

7. HANDLING AND STORAGE

Avoid eye and skin contact. Wash thoroughly after handling. Store between 0 and 120°F.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits: Hexylene Glycol: 25 ppm, 125 mg/m³, ceiling (OSHA/ACGIH).

Eye/Face Protections: Wear protective eyewear. Contact lenses should not be worn when working with chemicals.

Skin Protection: Wear long-sleeved shirt; long pants; socks; shoes; and barrier laminate, neoprene rubber, nitrile rubber or Viton® gloves.

Respiratory Protection: None required where adequate ventilation conditions exist. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory 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 wash fountains and drench showers should be located within a 10 second walk from the work area per ANSI Z358.1-2009.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear amber-yellow liquid	UEL:	N/D
Odor:	Fatty odor	LEL:	N/D
Odor Threshold:	N/D	Vapor Pressure:	N/D
pH:	7.75–8.5	Vapor Density:	N/D
Melting Point:	N/D	Relative Density:	9.96 lbs/gallon
Boiling Point:	N/D	Solubility:	Dispersible in water
Flash Point:	>200°F	Partition Coefficient:	N/D
Evaporation Rate:	N/D	Autoignition Temperature:	N/D
Flammability:	N/D	Decomposition Temperature:	N/D

10. STABILITY AND REACTIVITY

Stability:	Stable
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Condition to Avoid:	Store within recommended temperature range (see Section 7 above).
Incompatible Materials:	Strong oxidizers such as hydrogen peroxide, bromine, and chromic acid.
Hazardous Decomposition Products:	Combustion may yield carbon dioxide and carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:	LD50 > 2,000 mg/kg (albino rats)
Acute Eye Irritation:	Moderately Irritating (albino rabbits)
Acute Dermal Irritation:	Non-irritating (albino rabbits)
Acute Dermal Toxicity:	LD50 > 2,020 mg/kg (albino rats)

12. ECOLOGICAL INFORMATION

No ecological data is available for this product.

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13. DISPOSAL CONSIDERATIONS

Component Waste Numbers:	No EPA Waste Numbers are applicable for this product's components.
Disposal Instructions:	All wastes must be handled in accordance with local, state and federal regulations. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.
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

TSCA: All components of this product are listed under the regulation of the Toxic Substance Control Act.

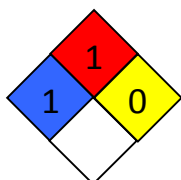
SARA HAZARD: No

16. OTHER INFORMATION

17. HMIS Hazard Rating

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	X

NFPA Rating



Date Prepared: November 8, 2013
Last Updated: May 28, 2015

WHILE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO BE ACCURATE AS OF THE DATE HEREON, MFA AGRI SERVICES 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.