

SAFETY DATA SHEET



Date Issued : 8/24/2016
SDS No : Ag Advantage
Date Revised : 1/2/2018
Revision No : 1

Ag Advantage

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Ag Advantage

CHEMICAL FAMILY: Adjuvant

DISTRIBUTOR

Innvictis Crop Care, LLC
 1880 Fall River Drive
 Suite 100
 Loveland, CO 80538

24 HR. EMERGENCY TELEPHONE NUMBERS

24-Hour Emergency Assistance Call: 1-800-222-1222
 Chemical Emergency Call CHEMTREC: 1-800-424-9300

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Skin Irritation, Category 2
 Eye Irritation, Category 2B
 Skin Sensitization, Category 1B

Environmental:

Acute Hazards to the Aquatic Environment, Category 2

GHS LABEL



Exclamation
 mark

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H320: Causes eye irritation.
 H401: Toxic to aquatic life.

PRECAUTIONARY STATEMENTS

General:

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.

Prevention:

P260: Do not breathe mist, vapors or spray.
 P264: Wash hands, face and other affected areas thoroughly after handling.
 P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

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

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P321: Specific treatment see Section 4, First Aid Measures, on this SDS.

P363: Wash contaminated clothing before reuse.

Disposal:

P501: Dispose of contents/container to Local, State and Federal Regulations.

COMMENTS HEALTH: Read all precautions of products being handled and follow the most restrictive language for all products to provide the safest work environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Methyl Esters of Fatty Acids, N,N-Bis 2-(omega-hydroxypolyoxyethylene) ethyl) alkylamine, Tall Oil Fatty Acids	100	Mixture

4. FIRST AID MEASURES

EYES: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

SKIN: Immediately wash skin with plenty of water while removing contaminated clothing. Always wash clothing according to manufacturer's instructions prior to reuse.

INGESTION: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

ADDITIONAL INFORMATION: Have the product container or label with you when calling a poison control center or doctor, or going in for treatment. For emergency medical assistance call **NPCC 1-800-222-1222** or call **CHEMTREC 1-800-424-9300**.

5. FIRE FIGHTING MEASURES

GENERAL HAZARD: Toxic fumes may be emitted in a fire situation.

EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide, water spray or fog.

HAZARDOUS COMBUSTION PRODUCTS: Normal combustion forms carbon dioxide, water vapor and may produce oxides of carbon, nitrogen and phosphorous.

EXPLOSION HAZARDS: No specific explosion hazards are identified or expected. Always fight fire with the implication that other volatile substances may be present.

FIRE FIGHTING PROCEDURES: Evacuate area and fight fire upwind a safe distance to avoid hazardous vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Explosive vapor could form from ruptured containers. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Immediately pick up spilled liquid with absorbent material and sweep up for disposal. Place it and damaged unusable containers in a landfill appropriate for non hazardous chemical waste. Wash the contaminated area with detergent and soap solution. Check local, state, and federal regulations for proper disposal.

LARGE SPILL: Immediately dike around the spill area to prevent spreading. Pick up spilled material with suitable absorbent

material and place in appropriate container for disposal. Scrub the contaminated area with a detergent or soap solution. Place it and unusable containers in a landfill appropriate for non hazardous chemical waste. Check local, state, and federal regulations for proper disposal.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Do not contaminate any body of water.

LAND SPILL: Avoid runoff onto any adjacent land.

SPECIAL PROTECTIVE EQUIPMENT: Always wear proper protective equipment when handling this product.

7. HANDLING AND STORAGE

HANDLING: Wash hands after handling, before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid contact with eyes and contact with skin. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE: Store in a cool, dry place away from children and animals. Store in original container. Keep away from heat, sparks and open flame. Keep tightly closed. Do not store product near strong oxidizing agents. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Store above 35° F and below 120° F.

STORAGE TEMPERATURE: (35°F) Minimum to (120°F) Maximum

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear chemical goggles or shielded safety glasses (ANSI Z87.1 or approved equivalent) when handling and mixing product. Contact lenses should not be worn when working with chemicals.

SKIN: Wear chemical resistant gloves such as Viton or barrier laminate, Coveralls over long-sleeved shirt, long pants and chemical resistant footwear plus socks. Chemical resistant headgear for overhead exposure. When exposed to product concentrate, wear a chemical resistant apron. Always refer to the label of the pesticide(s) in the tank mix and follow the most restrictive requirements.

RESPIRATORY: Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Wear a NIOSH/MSHA approved dust mask or filter when vapors are expected to be generated above the permissible limit.

PROTECTIVE CLOTHING: Eye protection, long sleeved shirt and long pants, shoes plus socks and chemical resistant gloves. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

OTHER USE PRECAUTIONS: Avoid contact with skin, eyes, and clothing. Avoid breathing vapors. Wash thoroughly after handling product. Eye wash fountains and drench showers should be located within 100 feet or a 10 second walk from the work area per ANSI Z358.1-1990

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Moderate

APPEARANCE: Liquid

COLOR: Amber to brown

pH: 6.0 to 7.0

PERCENT VOLATILE: Not Established

FLASH POINT AND METHOD: (330 °F)

FLAMMABLE LIMITS: Not Determined

AUTOIGNITION TEMPERATURE: Not Determined

VAPOR PRESSURE: Not Established

VAPOR DENSITY: Not Established

BOILING POINT: > (212°F)

FREEZING POINT: <= (32°F)

MELTING POINT: Not Applicable

POUR POINT: Not Established

THERMAL DECOMPOSITION: Not Determined

SOLUBILITY IN WATER: Emulsifies

EVAPORATION RATE: Not Established

DENSITY: 7.65 lbs/gal. at 20 °C (68°F)

SPECIFIC GRAVITY: 0.915 g/mL at 20°C (68°F)

VISCOSITY: Not Established

MOLECULAR WEIGHT: Not Established

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Extreme temperatures.

INCOMPATIBLE MATERIALS: Avoid strong oxidizers.

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: > 5000 mg/kg

ORAL LD₅₀: > 5000 mg/kg

INHALATION LC₅₀: > 5.88 mg/L

EYE EFFECTS: Causes severe eye irritation.

SKIN EFFECTS: Causes moderate skin irritation.

CARCINOGENICITY

Notes: Not listed in OSHA, NTP, IARC or ACGIH

SENSITIZATION: Not a contact sensitizer

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This product is toxic to aquatic invertebrates and wildlife. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water.

AQUATIC TOXICITY (ACUTE)

96-HOUR LC₅₀:

8.98 mg/L (Rainbow Trout)

11.08 mg/L (Bluegill Sunfish)

8.26 mg/L (Daphnia Magna)

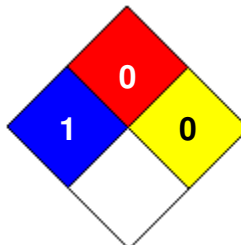
13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Do not reuse product containers. Triple rinse (or equivalent), then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

Ag Advantage

PROPER SHIPPING NAME: Not regulated by DOT**PRIMARY HAZARD CLASS/DIVISION:** Not regulated by DOT**UN/NA NUMBER:** None**PACKING GROUP:** None**PLACARDS:** None**LABEL:** None**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:** Acute**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No**313 REPORTABLE INGREDIENTS:** Not Listed**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)****CERCLA RQ:** Not Listed**TSCA (TOXIC SUBSTANCE CONTROL ACT)****TSCA STATUS:** Not Listed**CALIFORNIA PROPOSITION 65:** Not Listed**16. OTHER INFORMATION****REASON FOR ISSUE:** New Revision**REVISION SUMMARY:** This SDS replaces the 5/7/2015 SDS. Revised: **Section 9:** DENSITY, SPECIFIC GRAVITY.**NFPA CODES****GENERAL STATEMENTS: DISCLAIMER AND LIMITATION OF LIABILITY**

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