

SAFETY DATA SHEET

Updated: October 25, 2016

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Enya™ Plus
Manufactured for:	Heartland AG, Inc. P.O. Box 167 407 W. Depot Road Farmer City, IL 61842
Product Use:	Liquid Ammonium Sulfate Plus Deposition Aid
Emergency telephone number:	(Chemtrec Information 24 hours) (800) 424-9300
Customer Service, call:	(800) 775-0333

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/protective clothing/eye protection/face protection.

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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Weight %
Mixture	Proprietary	100%

4. FIRST AID MEASURES

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

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 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: Carbon dioxide or dry chemical for small fires; alcohol resistant foam, water spray for large fires.

PPE and Precautions: Fire fighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water spray.

Additional Fire and Explosion Data: Thermal degradation can yield ammonia.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill: Evacuate the spill area, except for cleanup personnel. Wear NIOSH/MSHA-approved respirator and protective equipment. 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.

Disposal: Product is slippery under foot; flush smooth surfaces thoroughly. Dispose of collected waste in accordance with federal, state and local regulations.

7. HANDLING AND STORAGE

Precautions to be Taken in Handling: Keep container sealed when not in use. Safety goggles and eyewash recommended. USDA-accepted nitrile (CFR-20) or neoprene rubber (CFR-21) recommended. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Precautions to be Taken in Storage: Product should be stored in a dry place. Do not store together with food, beverage and animal feed.

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.

Component Exposure Limits: N/D

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

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.

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

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General Protection: Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Wash thoroughly after handling product.

Note: 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:	Surfactant odor	LEL:	N/D
Odor Threshold:	N/D	Vapor Pressure:	N/D
pH (neat):	5.7	Vapor Density:	N/D
Melting Point:	N/D	Relative Density:	9.93-lbs/gallon
Boiling Point:	>212°F	Solubility:	Soluble in water
Flash Point:	>212°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: The product is stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Condition to Avoid: Strong oxidizers, bases, acids.

Incompatible Materials: Alkaline reactive substances, nitrates.

Hazardous Decomposition Products: Thermal decomposition may produce oxides of carbon and nitrogen, and ammonia.

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

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. **Dispose of container to disposal plant in accordance with federal, state and local regulations.**

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

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Proposition 65 – Carcinogens (>0.0%)

1,4-dioxane

Oxirane

Proposition 65 Female Repro Toxins (>0.0%)

Oxirane

Proposition 65 Male Repro Toxins (>0.0%)

Oxirane

State regulations

State RTK

CAS Number

Chemical name

MA, NJ, PA

7783-20-2

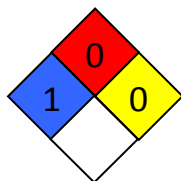
Ammonium sulfate

16. OTHER INFORMATION

HMIS Hazard Rating

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	X

NFPA Rating



Date Prepared: October 25, 2016

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