

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Heno D™**
 Manufactured for: Heartland AG, Inc.
 P.O. Box 167
 407 W. Depot Road
 Farmer City, IL 61842

Product Use: Spray Modifier Adjuvant
 Emergency telephone number: INFOTRAC: 1-800-535-5053
 Customer Service, call: (800) 775-0333

2. HAZARDS IDENTIFICATION

GHS Classification:

Skin Irritation, Category 3

Eye Irritation, Category 2A

Signal Word: Warning



Hazard Statements:

H303: May be harmful if swallowed.

H316: Causes mild skin irritation.

H319: Causes serious eye irritation.

H333: May be harmful if inhaled.

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.

P260: Do not breathe mist / vapors / spray.

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

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>GHS Classification</u>	<u>Weight %</u>
Mixture	Proprietary	Skin Irrit. 2:H315 Eye Irrit. 2A:H319	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 INFOTRAC 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.

IF INHALED: Move person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor or INFOTRAC 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, alcohol resistant foam, CO₂, or dry chemicals may be used in areas where this product is stored. Do not use water jet.

Specific Hazards: Do not breathe mist / vapors / spray. Can be dangerous when exposed to extreme heat and flame. May form flammable or explosive mixtures with air at room temperature. Vapors may concentrate in confined areas. Avoid accumulation of water. Product may be carried across water surface spreading fire by contacting an ignition source.

Thermal Decomposition: Irritating or toxic substances may be emitted. Thermal decomposition products may include oxides of carbon as well as smoke and fume.

PPE and Precautions: Evacuate area. Prevent contamination from run-off of adjacent areas, streams, drinking water and sewers. Do not flush down sewers or other drainage systems. Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Use water-spray to cool fire exposed surfaces and personnel. Product dissolves in water.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill: Remove sources of ignition. Do not turn lights or unprotected electrical equipment on or off. In case of a major spill, evacuate the spill area, except for cleanup personnel. Do not allow spills to enter drains of watercourses. Wear NIOSH/MSHA-approved respirator, full suit, splash goggles, boots and gloves. 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. Product is slippery under foot; flush smooth surfaces thoroughly.

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

7. HANDLING AND STORAGE

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. Use in areas with adequate mechanical exhaust ventilation, or wear respirator. Product should be stored in a dry place with temperatures above 30°F. Partially used containers should be resealed between uses for maximum storage stability.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits: N/D

Eye/Face Protections: Wear splash-proof chemical safety goggles. 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.

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

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:	Hazy purple liquid	UEL:	N/D
Odor:	Sweet odor	LEL:	N/D
Odor Threshold:	N/D	Vapor Pressure:	N/D
pH:	4.4–5.5	Vapor Density:	N/D
Melting Point:	N/D	Relative Density (lbs/gl):	9.84 ± 0.07
Freezing Point:	N/D	Solubility:	Soluble
Boiling Point:	>212°F	Partition Coefficient:	N/D
Flash Point:	>200°F	Autoignition Temperature:	N/D
Evaporation Rate:	N/D	Decomposition Temperature:	N/D
Flammability:	N/A		

10. STABILITY AND REACTIVITY

Stability:	Stable
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Condition to Avoid:	Excessive heat
Incompatible Materials:	Strong acids, strong bases (alkali), oxidizers, and reactive metals. Do not mix with chlorinated detergents (bleach).
Hazardous Decomposition Products:	Burning may produce carbon monoxide, carbon dioxide and unidentified organic compound.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity LD50 mg/kg >5000, Rat, Category: NA
Acute dermal toxicity LD50 mg/kg >5000, Rabbit, Category: NA

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

Date Prepared: November 13, 2013

Last Updated: March 6, 2022

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.