

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Luftech™**
Supplier: Heartland AG, Inc.
P.O. Box 167
407 West Depot Road
Farmer City, IL 61842
Product Use: Adjuvant
Emergency telephone number: INFOTRAC: 1-800-535-5053
Customer Service, call: (800) 775-0333

2. HAZARDS IDENTIFICATION**GHS Classification:**

Corrosive to Metals, Category 1, H290

Acute Toxicity, Category 1 (oral), H300

Aspiration Hazard, Category 1, H304

Skin Corrosion, Category 1A, H314

Eye Damage, Category 1, H318

Signal Word: Danger**Hazard Statements:**

H290: May be corrosive to metals.

H300: Fatal if swallowed.

H304: May be fatal if swallowed and enters airways.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

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.

P234: Keep only in original container.

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

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, and face protection.

Response

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor or INFOTRAC.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340: If inhaled: Remove person to fresh air and keep comfortable for breathing.

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

P310: Immediately call a POISON CENTER/doctor or INFOTRAC.

P321: Treat Symptomatically.

P330: Rinse mouth.

P331: Do NOT induce vomiting.

P363: Wash contaminated clothing before reuse.

P390: Absorb spillage to prevent material-damage.

Storage

P405: Store locked up.

P406: Store in a corrosion resistant/...container with a resistant inner liner.

Disposal

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>Weight %</u>	<u>ACGIH TLV</u>
Monocarbamide dihydrogen sulfate	21351-39-3	35-40%	
Agricultural surfactant	Proprietary	15-20%	
Alkoxylated fatty alcohol	Proprietary	10-15%	
Petroleum distillate (hydrotreated)	64742-55-8	20-30%	5 mg/m ³ as Oil Mist (TWA); 10 mg/m ³ (STEL)

4. FIRST AID MEASURES

IF SWALLOWED: Immediately call a POISON CENTER/doctor or INFOTRAC. 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 (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER/doctor or INFOTRAC. Treat Symptomatically. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor or INFOTRAC.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER, doctor or INFOTRAC.

Note: The health hazards given on this Material Safety Data Sheet apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of overexposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.

Signs and Symptoms of Overexposure: Chronic local effect may consist of destruction of the skin or of primary irritant dermatitis.

Medical Conditions Aggravated by Overexposure: Pre-existing skin, eye and respiratory disorders.

5. FIREFIGHTING MEASURES

Suitable Extinguishing media: Water spray (fog), dry chemical, CO₂, or foam may be used where product is stored.

Specific Hazards: Product is non-combustible.

PPE and Precautions: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Do not enter confined fire-spaces without protective clothing and self-contained air supply.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill: **CORROSIVE!** Absorb spillage to prevent material-damage. Spills can create an extreme slip hazard. Stop leak if you can do it without risk. Restrict entry to spill area and dike large spills to prevent run off. Mop, pump or take up with inert absorbent and reclaim for reuse, recycle or proper disposal. Diluted material can be more corrosive than concentrate. Flush area with copious amounts of water. This product classified as an oil under Section 311 of Clean Water Act. Discharge to surface waters that cause a sheen must be reported to the National Response Center (1-800-424-8802).

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

7. HANDLING AND STORAGE

WARNING: Corrosive liquid. Store locked up. Store in a corrosion resistant container with a resistant inner liner. Handle all containers carefully. Wash thoroughly after handling. Remove contaminated clothing and laundry before reuse. Store away from all oxidizers. Keep container closed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits:	N/D
Eye/Face Protections:	Splash-proof goggles and face shield. Contact lenses should not be worn when working with chemicals.
Skin Protection:	Long-sleeved shirt, long pants, shoes, socks, USDA-accepted nitrile (CFR-20) or neoprene rubber (CFR-21) chemically-impervious gloves and neoprene apron. 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:	NIOSH respirator is not adequate. Avoid misting conditions. Use with adequate ventilation to control acid TLV.
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:	Clear brown viscous liquid	UEL:	N/D
Odor:	Characteristic odor	LEL:	N/D
Odor Threshold:	N/D	Vapor Pressure:	N/D
pH:	<1.0 ± 0.5	Vapor Density:	N/D
Melting Point:	N/D	Relative Density (lbs/gl):	9.59 ± 0.06
Freezing Point:	N/D	Solubility:	Dispersible in water
Boiling Point:	>250°F	Partition Coefficient:	N/D
Flash Point:	>200°F (none to boiling)	Autoignition Temperature:	N/D
Evaporation Rate:	Slower	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:	Do not mix with strong bases.
Incompatible Materials:	Oxidizing agents, bases, reducing agents, metals, leather, and nylon.
Hazardous Decomposition Products:	Burning may produce carbon monoxide and/or carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Health studies have shown that many petroleum hydrocarbons pose potential human risks which may vary from person to person. As a precaution, exposure to liquid, vapors, mists & fumes should be minimized.

12. ECOLOGICAL INFORMATION

This product classified as an oil under Section 311 of Clean Water Act. Discharge to surface waters that cause a sheen must be reported to the National Response Center (1-800-424-8802).

13. DISPOSAL CONSIDERATIONS

Component Waste Numbers: No EPA Waste Numbers are applicable for this product's components.
 Disposal Instructions: Dispose of in an approved waste facility according to federal, state and local 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. Dispose of container in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT Status (Highway and rail): 8 UN1760 OG III Corrosive Liquid N.O.S. (Monocarbamide dihydrogensulfate). Inner packaging not over 5 Liters (1.3 gallons) 49CFR 173.154(b)(2)
 Special Provisions for Transportation: DOT corrosive to aluminum. Not regulated if transported by motor vehicle or railcar in packaging that will not react or be degraded by this material – 49 CFR 173.154(d).
 IATA Status (Air): UN2992, Carbamate pesticide, liquid, toxic, Class 6.1 Toxic, PG II
 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

State Regulations: This product contains the following components that are regulated under California Proposition 65:

Ingredient Name	CAS Number	Cancer List	Reprod. List
Propylene Oxide	75-56-9	Yes	No
1,4-Dioxane	123-91-1	Yes	No
Ethylene Oxide	75-21-8	Yes	Yes
Formaldehyde	50-00-0	Yes	No
Acetaldehyde	75-07-0	Yes	No

16. OTHER INFORMATION

Date Prepared: December 13, 2013

Last Updated: May 15, 2020

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.

