Safety Data Sheet

1. Identification

Product Name : INDUCE
Synonyms : None
Product Use : Nonionic Low Foam Wetter/Spreader Adjuvant
Manufacturer/Supplier : Helena Agri-Enterprises, LLC
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification

Signal Word : Warning
Skin Irritation : Moderately irritating
Eye Irritation : Severely irritating in non-washed eye (35.8); moderately irritating in washed eye (16.3); Injury was reversible.
Acute Toxicity Oral : LD50 >4,000 mg/kg (rat)
Acute Toxicity Dermal : LD50 >2,000 mg/kg (rat)

Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/5; Eye/Skin Irritation-2A/2

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Causes serious eye irritation
Causes skin irritation
May be harmful if inhaled

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Alkyl Aryl Polyoxylkane ethers, alkanolamides, dimethyl siloxane, and free fatty acids.	Proprietary	90.00
Components ineffective as adjuvant.	Nonhazardous	10.00

4. First Aid Measures

Eye : Immediately flush eyes with water for at least 15 minutes. See a physician.
Skin : Remove contaminated clothing and wash skin with soap and water. Call a physician if irritation persists.
Inhalation : Move victim to fresh air. Give artificial respiration if needed. See a physician.
Ingestion : Give a large amount of water to drink, induce vomiting and immediately call a physician. Do not induce vomiting or give anything by mouth to an unconscious person.
Indication of Immediate Medical Attention and Special Treatment Needed : If contact is made with the spray solution containing pesticides, refer to the "Statement of Practical Treatment/First Aid" on the pesticide label(s). Otherwise, treat symptomatically.

5. Fire Fighting Measures

Extinguishing Media : Use dry chemical, water spray, water fog, carbon dioxide, foam, or sand/earth.

Specific Hazards Arising from the Chemical	: Water spray be ineffective. Cool fire-exposed containers with water. Fog nozzles are preferable. Closed containers may rupture or explode when exposed to extreme heat.
Special Fire Fight Proc	: Wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Personal Precautions	: Keep unprotected and unnecessary personnel out of spill area.
Protective Equipment	: Splashproof goggles or face shield, chemical-resistant gloves, impervious apron and footwear. Eyewash should be available in work area. Use NIOSH-approved respirator with organic vapor cartridge if PEL exceeded.
Emergency Procedures	: Prevent spreading of spilled material into any waterways, drains or sewers.
Methods and Materials for Containment and Cleanup	: Absorb with an inert material such as sand, soil or vermiculite. Sweep up and dispose of in accordance with Federal, State and Local regulations.

7. Handling and Storage

Precautions for Safe Handling	: Keep out of reach of children. Keep container tightly closed. Do not contaminate water sources by runoff from cleaning of equipment, disposal of equipment wash waters or spray waste.
Conditions for Safe Storage	: Do not store with food, feed or other material to be used or consumed by humans or animals. Store in original container only. Do not allow water to be introduced into the contents of this container.

8. Exposure Controls / Personal Protection

TLV/PEL	: PEL 100 mg/m3.
Appropriate Engineering Controls	: Mechanical exhaust system
Personal Protective Equipment	: Splashproof goggles or face shield, chemical-resistant gloves, impervious apron and footwear. Eyewash should be available in work area. Use NIOSH-approved respirator with organic vapor cartridge if PEL exceeded.

9. Physical and Chemical Properties

Odor/Appearance	: Clear-slightly hazy colorless to yellow liquid.
Flash Point, ^{0}F	: >200 Degrees F.
Boiling Point, ^{0}F	: >250 Degrees F.
Melting Point(Freezing point), ^{0}C	: Not applicable
Vapor Pressure, mm Hg @ 20 ^{0}C	: Not established
Vapor Density	: 2.1
Solubility in Water	: Dispersible
Molecular Formula	: Not applicable, formulated mixture.
Density, g/mL @ 25 ^{0}C	: 0.956-1.033
Evaporation Rate(Butyl Acetate = 1)	: Not applicable
Octanol/Water Partition Coefficient	: No information found
pH	: 4-5.0
Flammable Limits (approximate volume % in air)	: No information found
Auto-ignition Temperature	: >750 Degrees F.
Decomposition temperature	: No information found

10. Stability and Reactivity

Reactivity	: No information found
Chemical Stability	: Stable
Hazardous Decomposition Products	: Carbon monoxide and carbon dioxide under fire conditions.
Hazardous Polymerization	: Will not occur
Conditions to Avoid	: Excessive heat and open flames.
Incompatible Materials	: Do not mix with strong oxidizers such as hydrogen peroxide, bromine and chromic acid.

11. Toxicological Information

Acute Toxicity (Oral LD50)	: >4,000 mg/kg (rat). May be harmful if swallowed.
Acute Toxicity (Dermal LD50)	: >2,000 mg/kg (rat). May be harmful in contact with skin.
Acute Toxicity Inhalation LC50	: 2.02 mg/L (vapor limit). May be harmful if inhaled.
Likely Routes of Exposure	: Eyes, skin.
Skin Irritation	: Moderately irritating. Causes skin irritation.
Eye Irritation	: Severely irritating in non-washed eyes (35.8), moderately irritating in washed eyes (16.3). Injury was reversible. Causes serious eye irritation.
Skin Sensitization	: Not listed as a sensitizer.
Carcinogenic	: Not listed by IARC, NTP or OSHA.
Chronic Effects	: CA PROPOSITION 65 WARNING: No listed ingredients appear on the CA Proposition 65 Warnings listing.
Other Hazards	: May contain components which, in laboratory tests, have been toxic to the fetus only at doses toxic to the mother.

12. Ecological Information

Ecotoxicity	: No information found
Persistence and Degradability	: No information found
Bioaccumulative Potential	: No information found
Mobility in Soil	: No information found
Other Adverse Effects	: Contains Alcohol C-12-C-16 Poly (1-6) Ethoxylate - a marine pollutant.

13. Disposal Considerations

Waste Disposal Method	: This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

14. Transport Information

UN Proper Shipping Name	: Not regulated by DOT in non-bulk packages. Regulated in bulk or if shipped by air (IATA) or vessel (IMDG) as Environmentally Hazardous Substance, Liquid, n.o.s., (Alcohol C12-C16 Poly (1-6) Ethoxylate)
Transport Hazard Class	: Class 9 (bulk/IATA/IMDG)
UN Identification Number	: 3082(bulk/IATA/IMDG)
Packaging Group	: PG III (bulk/IATA/IMDG)
Environmental Hazards	: Marine Pollutant
Transport in Bulk	: Marine Pollutant
Special Precautions for Transportation	: No information found

Freight Classification : Adhesives, Adjuvants, Spreaders or Stickers, N.O.I. (NMFC Item 42652, Class 60)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 1 Fire: 1 Reactivity: 0

Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard Classification (Yes/No) :

Immediate(Acute) Health:	Y
Delayed (Chronic) Health:	N
Sudden Release of Pressure:	N
Fire:	N
Reactive:	N

16. Other Information

Data of Preparation/Revision : 18-March-2019