



Safety Data Sheet

Report Date 16-Mar-18

Page 1 of 5

1. Identification

Product Name : INDUCE PH
Synonyms : None
Product Use : Nonionic Surfactant and Buffering Agent
Manufacturer/Supplier : Helena Chemical Company
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification



Signal Word : Danger
Skin Irritation : Causes skin irritation
Eye Irritation : Causes serious eye damage
Acute Toxicity Oral : LD50 (rat) >5,000 mg/kg
Acute Toxicity Dermal : LD50 (rat) >5,050 mg/kg
Hazard Categories : Eye/Skin Irritation-1/2; Oral/Dermal/Inhalation Toxicity-5/5/5; Skin Sensitization-1
Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
May be harmful if inhaled
Causes serious eye damage
Causes skin irritation
May cause an allergic skin reaction

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Alkyl aryl polyoxyalkane ethers, polyethoxylated alcohol phosphates, phosphoric acid, Tall oil Free Fatty Acids, dimethylpolysiloxane.	Proprietary	90.00
Components ineffective as adjuvant or buffering agent.	Nonhazardous	10.00

4. First Aid Measures



Safety Data Sheet

Report Date 16-Mar-18

Page 2 of 5

- Eye** : Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes then continue rinsing the eye. Call a poison control center or doctor for treatment advice.
- Skin** : Take off contaminated clothing. Rinse skin immediately with plenty of water, continuing for 15 to 20 minutes. Call a poison control center or doctor for further treatment advice.
- Inhalation** : Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
- Ingestion** : Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water, if able to swallow. Do not induce vomiting unless told to by the poison control center or doctor. Do not give anything by mouth if unconscious.
- Indication of Immediate Medical Attention and Special Treatment Needed** : Treat symptomatically. If in a mix with pesticides, refer to the "Statement of Practical Treatment/First Aid" on the pesticide label(s).

5. Fire Fighting Measures

- Extinguishing Media** : Use water spray, alcohol foam, dry chemical or carbon dioxide extinguishing agents.
- Specific Hazards Arising from the Chemical** : Can be made to burn (flash point >200 Degrees F.). May produce carbon monoxide, carbon dioxide and oxides of phosphorus under fire conditions.
- 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 station and emergency shower in work area. Use NIOSH-approved respirator for organic vapors if vapors or mists are present.
- Emergency Procedures** : Secure contaminated area.
- Methods and Materials for Containment and Cleanup** : Cover spill with an inert absorbent, such as clay, sand or sawdust. Collect and place in suitable chemical waste containers for proper disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Keep container tightly closed. Do not allow water to be introduced into the contents of this container. Do not contaminate water sources by runoff from cleaning of equipment, disposal or equipment washwaters or spray waste.
- Conditions for Safe Storage** : Store in original container only. Do not store near heat or open flame.

8. Exposure Controls / Personal Protection



Safety Data Sheet

Report
Date 16-Mar-18

Page 3 of 5

TLV/PEL : No TLV or PEL established for mixture.
Appropriate Engineering Controls : Local mechanical exhaust system recommended.
Personal Protective Equipment : Splashproof goggles or face shield, chemical-resistant gloves, impervious apron and footwear. Eyewash station and emergency shower in work area. Use NIOSH-approved respirator for organic vapors if vapors or mists are present.

9. Physical and Chemical Properties

Odor/Appearance : Clear to slightly hazy pale yellow liquid, surfactant odor.
Flash Point, °F : >200 Degrees F.
Boiling Point, °F : >200 Degrees F.
Melting Point(Freezing point), °C : Not applicable
Vapor Pressure, mm Hg @ 20 °C : Not determined
Vapor Density : Not determined
Solubility in Water : Soluble
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.076-1.096
Evaporation Rate(Butyl Acetate = 1) : Not determined
Octanol/Water Partition Coefficient : No information found
pH : Not determined
Flammable Limits (approximate volume % in air) : No information found
Auto-ignition Temperature : Not determined
Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition Products : May produce carbon monoxide, carbon dioxide and oxides of phosphorus under fire conditions.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Do not mix with strong oxidizing agents, strong alkaline or caustic materials.
Incompatible Materials : Incompatible with strong oxidizing agents, strong alkaline or caustic materials.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >5,000 mg/kg (rat). May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : >5,050 mg/kg (rat). May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : >2.18 mg/L/4 hour (aerosol exposure to rats). May be harmful if inhaled.



Safety Data Sheet

Report Date 16-Mar-18

Page 4 of 5

- Likely Routes of Exposure** : Skin and eyes.
- Skin Irritation** : Causes skin irritation.
- Eye Irritation** : Causes serious eye damage. Positive effects persisted in two eyes through Day 21 after treatment.
- Skin Sensitization** : May cause an allergic skin reaction.
- Carcinogenic** : Not listed by IARC, NTP or OSHA.
- Chronic Effects** : Contains component(s) which did not cause cancer in laboratory animals.
Contains component(s) which, in laboratory animals, have been toxic to the fetus only at doses toxic to the mother. Component(s) did not cause birth defects in lab animals.
- Other Hazards** : CA Prop 65: This product does not contain >0.1% of a chemical known to the state of California to cause cancer and <1% of a chemical known to the state of California to cause birth defects or other reproductive harm. (ethylene oxide)

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** : No information found

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 as a Marine Pollutant if shipped by ground (DOT) in bulk packaging, or if shipped by air (IATA) or by water (IMDG).
- 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 per Appendix B to 49 CFR 172.101.
- Transport in Bulk** : UN3082, Environmentally Hazardous Substance, Liquid, n.o.s. (Alcohol C-12 - C-16 Poly (1-6) Ethoxylate), 9, PG III, Marine Pollutant
- Special Precautions for Transportation** : If shipped by air (IATA) or water (IMDG), ship as: UN3082, Environmentally Hazardous Substance, Liquid, n.o.s. (Alcohol C-12 - C-16 Poly (1-6) Ethoxylate), 9, PG III, Marine Pollutant
- Freight Classification** : Adhesives, Adjuvants, Spreaders or Stickers, N.O.I. (NMFC Item 42652, Class 60)



Safety Data Sheet

Report
Date 16-Mar-18

Page 5 of 5

15. Regulatory Information

National Fire Protection :
Association Rating

Health:

2

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 N

Pressure:

Fire: N

Reactive: N

16. Other Information

Data of Preparation/Revision : 16-March-2018



Safety Data Sheet

Report Date 18-Sep-15

Page 1 of 4

1. Identification

Product Name : IMPEL
Synonyms : None
Product Use : Oil-Surfactant Penetrant/Low Volume Basal Oil
Manufacturer/Supplier : Helena Chemical Company
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification



Signal Word : Danger
Skin Irritation : Not classified as hazardous
Eye Irritation : Not classified as hazardous
Acute Toxicity Oral : Not classified as hazardous
Acute Toxicity Dermal : Not classified as hazardous

Hazard Categories : Aspiration Hazard-1

Hazard Statement : May be fatal if swallowed and enters airways

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of Aliphatic Hydrocarbon Oils, Surfactants and Nonionic Emulsifiers	Proprietary	100.00

4. First Aid Measures

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

Skin : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

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

Ingestion : Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth if unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed : In the event of an adverse response, treatment should be directed toward control of the symptoms.

5. Fire Fighting Measures

Extinguishing Media : Carbon dioxide, dry chemical, chemical foam or water fog.
Specific Hazards Arising from the Chemical : Product can be made to burn even though flash point >200 Degrees F.



Safety Data Sheet

Report
Date 18-Sep-15

Page 2 of 4

Special Fire Fight Proc : Wear positive-pressure self-contained breathing apparatus and full protective clothing. Avoid getting water from fire fighting into domestic or irrigation water supplies.

6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area.
- Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Spill area will be quite slippery. Dike and contain spilled liquid to prevent spreading.
- Methods and Materials for Containment and Cleanup** : If uncontaminated, collect reuse as intended. If contaminated, absorb spill with clay, sand or sawdust. Scoop, sweep or shovel up absorbent and place in a chemical waste container for proper disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Keep out of reach of children. Read label before use. Do not eat, drink or smoke when using this product. Avoid breathing dust, fumes, gas, mist, vapors or spray. Wash hands thoroughly after handling. Wear protective gloves, protective clothing, eye protection and face protection.
- Conditions for Safe Storage** : Store in a cool, well-ventilated place. Keep in original container with lid tightly closed. Do not reuse empty container. Do not store with food, feed or other material to be used or consumed by humans or animals. Do not contaminate water supplies. For optimal storage, store between 40 Degrees F. and 90 Degrees F.

8. Exposure Controls / Personal Protection

- TLV/PEL** : No TLV or PEL available.
- Appropriate Engineering Controls** : Normal room ventilation (mechanical) or outdoor use should be satisfactory.
- Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

- Odor/Appearance** : Light amber liquid; little odor.
- Flash Point, °F** : >200 Degrees F.
- Boiling Point, °F** : Unknown
- Melting Point(Freezing point), °C** : Unknown
- Vapor Pressure, mm Hg @ 20 °C** : Unknown
- Vapor Density** : Unknown
- Solubility in Water** : Dispersible
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 0.838-0.859
- Evaporation Rate(Butyl Acetate = 1)** : Unknown
- Octanol/Water Partition Coefficient** : No information found
- pH** : Not applicable
- Flammable Limits (approximate volume % in air)** : No information found



Safety Data Sheet

Report
Date 18-Sep-15

Page 3 of 4

Auto-ignition Temperature : Not established
Decomposition temperature : Unknown

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition : None known
Products
Hazardous Polymerization : Will not occur
Conditions to Avoid : None known
Incompatible Materials : None known

11. Toxicological Information

Acute Toxicity (Oral LD50) : No LD50 available. Not classified as hazardous by ingestion.
Acute Toxicity (Dermal LD50) : No LD50 available. Not classified as hazardous by skin contact.
Acute Toxicity Inhalation LC50 : No LC50 available. Not classified as hazardous by inhalation.
Likely Routes of Exposure : Ingestion/aspiration
Skin Irritation : Not classified as hazardous by skin contact.
Eye Irritation : Not classified as hazardous by eye contact.
Skin Sensitization : Not a skin sensitizer.
Carcinogenic : Not listed as a carcinogen.
Chronic Effects : No information found
Other Hazards : Aspiration hazard. May be fatal if swallowed and enters airways.

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 : No information found

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, IATA or IMDG.
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : No information found
Transport in Bulk : No information found
Special Precautions for Transportation : No information found
Freight Classification : Adhesives, Adjuvants, Spreaders or Stickers, N.O.I. (NMFC Item 42652, Class 60)



Safety Data Sheet

Report Date 18-Sep-15

Page 4 of 4

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 N
Pressure:
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 18-September-2015