



Safety Data Sheet

Report Date 25-May-15

Page 1 of 4

1. Identification

Product Name : PENETRATOR
Synonyms : None
Product Use : Nonionic Spray Adjuvant
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 : Warning (no symbol)
Skin Irritation : 2.29 irritation score for intact skin; 2.42 irritation score for abraded skin.
Eye Irritation : 6.0 irritation score on unwashed eye. 5.3 irritation score on washed eye.
Acute Toxicity Oral : LD50 >5,010 mg/kg
Acute Toxicity Dermal : LD50 >2,020 mg/kg

Hazard Categories : Oral/Dermal/Inhalation Toxicity - 5/5/5; Eye/Skin Irritation - 2B/3

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

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of heavy range paraffin base petroleum oil, polyol fatty acid esters and polyethoxylated derivatives.	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 : Use water spray, foam, dry chemical and carbon dioxide extinguishing agents.
Specific Hazards Arising from the Chemical : None currently known.
Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing.



Safety Data Sheet

Report Date 25-May-15

Page 2 of 4

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. Use NIOSH-approved respirator if spray is present. Eyewash should be available in work area.
- Emergency Procedures** : Do not contaminate water supplies, lakes, streams, ponds or drains with spilled product.
- Methods and Materials for Containment and Cleanup** : Dike and absorb spill with an absorbent such as clay, sand or sawdust. Collect and place in suitable containers for proper disposal. Flush spill area with water. Absorb wash water, collect and place in container with spill cleanup material.

7. Handling and Storage

- Precautions for Safe Handling** : Keep locked up and out of reach of children. Do not contaminate water, food or feed by storage, handling or disposal. Keep container tightly closed. Do not allow water to be introduced into the contents of the container.
- Conditions for Safe Storage** : Store in original container only. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate.

8. Exposure Controls / Personal Protection

- TLV/PEL** : No TLV or PEL established.
- Appropriate Engineering Controls** : Local exhaust is sufficient.
- Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use NIOSH-approved respirator if spray is present. Eyewash should be available in work area.

9. Physical and Chemical Properties

- Odor/Appearance** : Clear green liquid, mineral oil odor.
- Flash Point, °F** : >200 Degrees F.
- Boiling Point, °F** : 625 to 830 Degrees F.
- Melting Point(Freezing point), °C** : <10 Degrees F.
- Vapor Pressure, mm Hg @ 20 °C** : 0.0001 mmHg
- Vapor Density** : 10+
- Solubility in Water** : Dispersible
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 0.865-0.885
- Evaporation Rate(Butyl Acetate = 1)** : 1000X
- Octanol/Water Partition Coefficient** : No information found
- pH** : Not applicable, non-aqueous.
- Flammable Limits (approximate volume % in air)** : No information found
- Auto-ignition Temperature** : 670 Degrees F.
- Decomposition temperature** : No information found

10. Stability and Reactivity



Safety Data Sheet

Report Date 25-May-15

Page 3 of 4

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition Products : May produce oxides of carbon and asphyxiants under fire conditions.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid alkalies and strong oxidizers.
Incompatible Materials : Alkalies and strong oxidizers.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >5,010 mg/kg. May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : >2,020 mg/kg. May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : No LC50 available. May be harmful if inhaled.
Likely Routes of Exposure : Skin and eyes
Skin Irritation : Irritation score = 2.29, intact skin; 2.42, abraded skin. Causes mild skin irritation.
Eye Irritation : Irritation score = 6.0, unwashed eyes; 5.3, washed eyes. Causes eye irritation.
Skin Sensitization : Not listed as a sensitizer
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : None currently known
Other Hazards : None currently known

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)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 1 Fire: 0 Reactivity: 0



Safety Data Sheet

Report Date **25-May-15**

Page 4 of 4

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 : 25-May-2015