



Safety Data Sheet

Report Date 26-May-15

Page 1 of 4

1. Identification

Product Name : VBS 007
Synonyms : None
Product Use : Acidifier-Buffer, Penetrant, Deposition 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 severe skin irritation and burns with contact.
Eye Irritation : Prolonged eye contact may cause irreversible eye damage and/or blindness.
Acute Toxicity Oral : Ingestion may cause irritation, burns, pain, nausea, vomiting, shock symptoms or even death.
Acute Toxicity Dermal : May cause severe skin irritation with contact.
Hazard Categories : Oral/Dermal/Inhalation Toxicity-4/4/5; Eye Irritation-1; Skin Irritation-1A
Hazard Statement : Harmful if swallowed
Harmful in contact with skin
Causes severe skin burns and eye damage
May be harmful if inhaled

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of organic phosphatic compounds and alkyl polyoxyethylene ether.	Proprietary	50.00
Components ineffective as a buffer or conditioner.	Proprietary	50.00

NOTE: Contains Phosphoric Acid (CAS No. 7664-38-2).

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.



Safety Data Sheet

Report Date 26-May-15

Page 2 of 4

5. Fire Fighting Measures

- Extinguishing Media** : Non-combustible liquid. Use dry chemical, carbon dioxide, alcohol foam or water spray extinguishing agents.
- Specific Hazards Arising from the Chemical** : None currently known.
- 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, acid-proof gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Wear appropriate PPE. Prevent runoff to groundwater, surface waters and sewers. If acidity is low, neutralize with hydrated lime, soda ash or sodium bicarbonate.
- Methods and Materials for Containment and Cleanup** : Recover spilled product for disposal. Store recovered product and material for disposal in a non-reactive container, preferably plastic. To clean up residue, flush sparingly with water. Absorb with an inert absorbent, collect and place in containers with other material for disposal.

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** : Phosphoric Acid - 1 mg/m³ (TLV/PEL)
- Appropriate Engineering Controls** : Mechanical general ventilation is usually sufficient.
- Personal Protective Equipment** : Splashproof goggles or face shield, acid-proof 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** : Clear pale yellow to amber liquid.
- Flash Point, °F** : Not flammable
- Boiling Point, °F** : Not determined
- Melting Point(Freezing point), °C** : None noted
- Vapor Pressure, mm Hg @ 20 °C** : 17.5 Torr at 20 Degrees C.
- Vapor Density** : Not determined
- Solubility in Water** : Soluble
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.180-1.120
- Evaporation Rate(Butyl Acetate = 1)** : Not determined



Safety Data Sheet

Report Date 26-May-15

Page 3 of 4

Octanol/Water Partition Coefficient : No information found
pH : 2.00 to 2.50 (0.5%)
Flammable Limits (approximate volume % in air) : Not determined
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 oxides of phosphorus under fire conditions.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid excessive heat, open flames and ignition sources.
Incompatible Materials : Avoid contact with inorganic bases, organic bases, metals/metal blends. Contact with some metals may generate hydrogen gas.

11. Toxicological Information

Acute Toxicity (Oral LD50) : No LD50 available. Ingestion may cause irritation, burns, pain, nausea, vomiting, shock symptoms.
Acute Toxicity (Dermal LD50) : No LD50 available. May cause severe skin irritation with contact.
Acute Toxicity Inhalation LC50 : No LC50 available. Inhalation of spray mists or vapors may cause irritation, including coughing.
Likely Routes of Exposure : Skin, eyes, inhalation and ingestion
Skin Irritation : May cause severe skin irritation with contact.
Eye Irritation : May cause severe irritation, including burns. Prolonged contact may cause irreversible eye damage and/or blindness.
Skin Sensitization : Not a skin sensitizer but skin disorders may be aggravated.
Carcinogenic : Not currently listed.
Chronic Effects : Overexposure may aggravate disorders of the skin and the respiratory system.
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 : Corrosive Liquid, n.o.s. (Phosphoric Acid)



Safety Data Sheet

Report Date **26-May-15**

Page 4 of 4

Transport Hazard Class : Corrosive (8)
UN Identification Number : UN1760
Packaging Group : PG III
Environmental Hazards : No information found
Transport in Bulk : RQ for phosphoric acid = 5,000 lbs. If shipped in single package >1,665 gallons, add RQ to proper shipping name.
Special Precautions for Transportation : No information found
Freight Classification : Adhesive, Adjuvant, Spreader or Sticker, N.O.I. (NMFC Item 42652, Class 60)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 3 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 : 26-May-2015