VAPCO PRODUCTS DIV.
401 Marshall Road
Valley Park, MO 63088

For Customer Service call: (636) 923.2121
Emergency Telephone: (800) 255-3924

HP CLEANER

HMIS: 3*-0-1 **NFPA: 3-0-1**

Data Sheet: 105
Prepared: 12/28/05
Supersedes: 05/15/01

This Material Safety Data Sheet complies with OSHA Hazard Communication Standard 29 CFR 1910.1200.

SECTION 1: COMPOSITION / INFORMATION ON INGREDIENTS

If present, IARC, NTP, and OSHA Carcinogens, are identified with an asterisk (*) in this section.

Ingredient(s)	Exposure Limits	Percent	Note
Sodium metasilicate (SMD) CAS#: 6834-92-0	Not established	<10	
Butyl Cellosolve CAS#: 111-76-2	PEL-TWA 25 ppm TLV-TWA 25 ppm	<5	Skin absorption notation
Sodium Tripolyphosphate CAS#: 7758-29-4	Not established	<5	
Surfactant CAS#: 68585-63-4	Not established	<5	
Water CAS#: 7732-18-5	Not established	>80%	

SECTION 2: HAZARDS IDENTIFICATION

Permissible Exposure Limits: Not established for this product. See Section 1 for Component PELs and TLVs.

Effects of Acute Overexposure:

Eyes: Exposure to liquid, vapor, or mist causes severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and eye damage. Burning may not be immediately painful or visible. Prolonged or repeated exposure may cause irreversible eye damage including corneal damage and blindness.

Skin: Exposure to liquid, vapor, or mist causes severe skin irritation. Symptoms may include redness, burning and severe skin damage. Prolonged or repeated exposure may cause irreversible skin damage including burns. Skin absorption is possible.

Breathing: Prolonged or repeated exposure especially when sprayed, may cause irreversible respiratory tract damage.

Swallowing: Exposure may be harmful or fatal. Symptoms may include: severe gastrointestinal irritation (diarrhea, nausea, vomiting) and burns to the mouth, throat and digestive tract.

Primary Route(s) of Entry: Skin contact, skin absorption, eye contact, and inhalation.

Effects of Chronic Overexposure: This product does not contain components in excess of 0.1% which are listed as carcinogens by IARC, NTP, OSHA, or ACGIH.

Medical Conditions Aggravated by Exposure: Skin contact may aggravate existing dermatitis or other significant skin conditions. Inhalation may adversely affect existing respiratory conditions.

SECTION 3: FIRST AID MEASURES

Eyes: Immediately remove individual from exposure area and into fresh air. Flush eyes with water for at least 30 minutes while holding eyelids apart. Seek immediate medical attention.

Skin: Remove contaminated clothing immediately. Discard contaminated shoes. Wash exposed area with large amounts of soap and water. If irritation persists or open sores develop, get immediate medical attention.

Breathing: If affected, remove individual to fresh air. If breathing is difficult, administer oxygen (if you have been trained in its use). If breathing has stopped, give artificial respiration. Keep person warm, quiet and get immediate medical attention.

Swallowing: Do not induce vomiting. Vomiting will cause further damage to the throat. Get medical attention immediately. If individual is conscious and alert, immediately rinse mouth with water and dilute the swallowed material with milk or water. Seek immediate medical attention.

SECTION 4: FIRE FIGHTING MEASURES

Flash Point: >200 °F TCC

Explosive Limit: Not applicable

Extinguishing Media: Foam, CO_2, Dry Chemical, and Water.

Hazardous Decomposition Products: May form toxic materials including, but not limited to the following: carbon monoxide, carbon dioxide, various hydrocarbons, etc.

Fire Fighting Procedures: Wear Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fire fighting.

Special Fire and Explosion Hazards: This product contains a large amount of water and will not burn under normal fire conditions. Due to the alkalinity, flammable hydrogen may be liberated by reaction of sodium tripolyphosphate on aluminum.

SECTION 5: ACCIDENTAL RELEASE MEASURES

Small Spill: Absorb liquid with vermiculite, floor absorbent, or other absorbent material. Ventilate area well before re-entry. Appropriate personal protective equipment should be worn.

Large Spill: Only personnel trained in spill clean-up under 29 CFR 1910.120 should be involved with spill clean-up procedures. Prevent material from entering drains, sewers, streams, or other bodies of water. Prevent from spreading. If run-off occurs notify appropriate authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product on absorbent materials. Transfer contaminated absorbent and other materials to container for neutralization. Neutralize spilled material. Follow Local, State, and Federal regulations for proper disposal.

SECTION 6: HANDLING AND STORAGE

Minimize temperature extremes. Keep containers closed when not in use.

Keep away from direct sunlight. Do not transfer to unmarked containers. Loosen closure carefully.

SECTION 7: EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: Not required under normal conditions of use; however, if sprayed or used in confined areas, a NIOSH / MSHA approved respirator may be advised in absence of proper environmental control. OSHA regulations also permit other NIOSH / MSHA respirators under specified conditions -- see 29 CFR 1910.134 or your safety equipment supplier. Engineering and/or administrative controls should be implemented to reduce exposure.

Ventilation: Provide sufficient mechanical ventilation (general and/or local exhaust) to maintain exposure below the recommended exposure limits.

Protective Gloves: Wear chemical resistant gloves such as neoprene or PVC. Contact your safety equipment supplier.

Eye Protection: Chemical splash goggles and a face shield to prevent splash on to the face, in compliance with OSHA regulations, are advised.

Other Protective Equipment: To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

SECTION 8: PHYSICAL AND CHEMICAL PROPERTIES

Property	Measurement	Property	Measurement
Boiling Point	212 °F @ 760 mmHg (component)	Specific Gravity	Similar to water
Vapor Pressure	0.88 mmHg @ 77 °F (component)	Volatiles	>80%
Vapor Density	Not established for product	Evaporation Rate	Slower than ether
Solubility In Water	Soluble	Appearance	Clear turquoise liquid
pH	Alkaline		

SECTION 9: STABILITY AND REACTIVITY

Hazardous Polymerization: Can not occur.

Stability: Stable.

Incompatibility: Avoid contact with contact with strong oxidizing agents, acidic materials, and metals including aluminum . Do not mix with any products.

SECTION 10: TOXICOLOGICAL INFORMATION

No data available at this time.

SECTION 11: ECOLOGICAL INFORMATION

No data available at this time.

SECTION 12: DISPOSAL CONSIDERATIONS

Dispose of in accordance with all Local, State, and Federal Regulations.

This product may be classified as an RCRA Hazardous Waste D002 due to the pH of the solution and the corrosive characteristics.

SECTION 13: TRANSPORTATION INFORMATION

DOT Hazard Classification: Caustic alkali liquid N.O.S. (contains sodium metasilicate), 8 (corrosive material), UN 1719, III

SECTION 14: REGULATORY INFORMATION

SARA Title III, Section 313 chemicals: Ethylene Glycol Monobutyl Ether is subject to the reporting requirements. Ethylene Glycol Monobutyl Ether can be found in this mixture at 3.25%.
SARA 312: Health -- Acute (Yes) Chronic (Yes) Fire (No) Reactivity (Yes)
Proposition 65: Yes

SECTION 15: OTHER INFORMATION

Containers used to transport and store this material may be hazardous when emptied. Residue (Vapor, Liquid, and/or Solid) may be present in the emptied container. All hazard precautionary measures should be followed.

The information accumulated and reflected in this Material Safety Data Sheet is believed to be accurate but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.