

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

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

PLUS

HMIS: 3-0-1

NFPA: 3-0-1

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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.

<u>Ingredient(s)</u>		<u>Exposure Limits</u>	<u>Percent</u>	<u>Note</u>
Caustic Soda	CAS#: 1310-72-2	PEL 2mg/M ³ (ceiling) TLV 2mg/ M ³ (ceiling)	20 - 40%	
Surfactant	CAS#: 68585-36-4	Not Established	<5	
Sodium Metasilicate (SMD)	CAS#: 6834-92-0	Not Established	<5	
Sodium Glucanate	CAS#: 527-07-1	Not Established	<5	
Water	CAS#: 7732-18-5	Not Established	>60	

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 unlikely.

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, 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, CO₂, Dry Chemical, and Water.

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

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 product is sprayed or used in a confined area 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 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

<u>Property</u>	<u>Measurement</u>	<u>Property</u>	<u>Measurement</u>
Boiling Point	212 °F @ 760 mmHg (component)	Specific Gravity	Similar to water
Vapor Pressure	17.5 mm/Hg @ 68 °F (component)	Percent Volatiles	>60 %
Vapor Density	Lighter than Air	Evaporation Rate	Slower than Ether
Solubility In Water	Soluble	Appearance	Clear liquid
pH	Alkaline: 11-12		

SECTION 9: STABILITY AND REACTIVITY

Hazardous Polymerization: Cannot occur.

Stability: Stable.

Incompatibility: Avoid contact with contact with strong oxidizing agents, and metal 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 hydroxide and sodium metasilicate), 8 (corrosive material), UN1719, II

SECTION 14: REGULATORY INFORMATION

SARA Title III, Section 313 chemicals: None Known. SARA 312 – Health: Acute (yes) Chronic (yes) Fire (no) Reactivity (yes)
Proposition 65: No.

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.