



5353 Spring Grove Avenue, Cincinnati, OH 45217 USA 513-471-8770

Material Safety Data Sheet

Section 1 - Product Identification

Product Name: Vulclean SP-1070LF

Hazard Rating

	Health	Fire	Reactivity	
NFPA Code:	3	0	1	
0=Least	1=Slight	2=Moderate	3=High	4=Extreme

FOR CHEMICAL EMERGENCY - Spill, leak, fire, exposure or accident
Call CHEMTREC 800-424-9300

Section 2 - Hazardous Ingredients / Identity Information

Specific Identity; Common Names	OSHA PEL	ACGIH TLV	Other
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Proprietary Formula - Specific Chemical Identities Have Been Withheld

000102-71-6 Triethanolamine	-	5 mg/m3	
10043-35-3 Boric Acid	15 mg/m3 (dust)	10 mg/m3 (dust)	
1310-58-3 Potassium Hydroxide	2 mg/m3	2 mg/m3	

Section 3 - Physical/Chemical Characteristics

Appearance	Clear liquid
Boiling Point, Deg. F	212F
Evaporation, BuAcetate=1	Slower than
Melting Point	35F
Odor	Mild
pH Diluted in water	~11.8 (2%)
Solubility in water	Complete
Vapor Density (Air=1)	Not Known
Vapor Pressure	Not Known
Specific Gravity	1.123

Section 4 - Fire and Explosion Hazard Data

Flash Point COC: NA Flammable Limits: LEL-Not Known UEL-Not Known
 Extinguishing Media: Foam, dry chemical, water fog, carbon dioxide.
 Special Fire Fighting Procedures: Cool fire exposed containers with water.
 Do not enter a confined fire space without full bunker gear and NIOSH approved supplied air breathing apparatus.
 Unusual Fire and Explosion Hazards: Product is water based and will not burn until water has evaporated.

Section 5 - Reactivity Data

Stability - Oxides of carbon.
 Incompatibility - Strong acids-mineral and organic. Alkali. Alkaline compounds. Amines. Strong bases at high temperature. Copper and copper alloys. Halogenated solvents. Magnesium. Nickel. Organic materials. Oxidizing agents. Strong reducing agents. Zinc.
 Hazardous Decomposition Products - Ammonia. Oxides of carbon. Oxides of nitrogen. Oxides of phosphorus. Oxides of potassium. Oxides of sodium. Sodium hydroxide.
 Hazardous Polymerization - Will not occur.
 Other - Not Applicable.



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Section 6 - Health Hazard Data

Routes of Entry: Inhalation-yes Skin-yes Ingestion-yes

Health Hazards:

The health hazards listed below are for components to this mixture. The active ingredients are diluted in water in this mixture and the severity of the listed health hazards for this product may be reduced. This product is designed to be diluted significantly with water before product use. The severity of these health hazards may be reduced further at usage concentrations.
(Acute and Chronic Overexposure)

Eyes - Blindness. Corneal damage. Excess blinking. Excess redness. Severe irritation. Possible burns. Stinging. Swelling. Tearing.

Skin - Burns. Fissures. Irreversible damage. Possible bleeding. Redness. Swelling. Tissue destruction. Ulceration.

Inhalation - Damage to nasal and respiratory passages. Damage to throat and esophagus.

Ingestion - Abdominal discomfort. Diarrhea. Headaches, depression, and weakness. Moderately toxic. Nausea. Swallowing this material may be harmful or fatal. Vomiting.

Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing potassium hydroxide may cause burns and destroy tissue in the mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury. Pulmonary aspiration hazard if swallowed and vomiting occurs.

Signs And Symptoms of Exposure -

Signs and symptoms of exposure to potassium hydroxide through breathing, swallowing, and/or passage through the skin may include: cough, lung edema (fluid buildup in the lung tissue).

Medical Conditions Generally Aggravated By Exposure - May aggravate existing dermatitis. Pre-existing skin disorders may be aggravated by exposure.

Other Precautions - NA

Other - Citric acid decreases iron and calcium absorption. Large repeated exposures may affect liver and kidneys.

Carcinogenicity NTP-No IARC-No OSHA-No

Emergency and First Aid Procedures:

Inhalation - remove to fresh air.

Skin contact - flush skin with plenty of cool water followed by a dilute vinegar solution. Remove and wash contaminated clothing before reuse.

Eye contact - flush with water for at least 15 minutes or until irritation subsides, get immediate medical attention.

Ingestion - Do not induce vomiting: give victim water and call a physician. Never give anything by mouth to an unconscious person.

Section 7 - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled:

Dike area. Recover free product. Add a dry absorbent material to spill area.

Waste Disposal Method: Dispose by methods consistent with local state and federal regulations.

Precautions to be Taken in Handling and Storing: Keep containers tightly closed. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. To dissipate static electricity during transfer, ground and/or bond both

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containers. Since emptied containers retain product residue, follow warnings even after container is emptied. Residue or vapors may explode on ignition; do not cut, drill, grind or weld on or near container even when empty.

Other Precautions:
Not Applicable

Section 8 - Control Measures

Respiratory Protection: Not normally required. Use NIOSH approved supplied air breathing equipment if vapors are excessive.

Ventilation: Local Exhaust : Not normally required.
Mechanical (General): Use general ventilation.

Protective Gloves: Use chemical-resistant gloves, if needed, to avoid skin contact.

Eye Protection: Use splash goggles or face shield when eye contact may occur.

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

Work/Hygienic Practices: Minimize breathing vapor, mist or fumes. Wash skin with soap and water after contact. Launder contaminated clothing.

Section 9 - Regulatory Information

DOT Information

DOT Proper Shipping Name: Corrosive Liquid, N.O.S., Potassium Hydroxide Solution, 8, UN1760, II

DOT Hazard Code: CORROSIVE LIQUID

UN Number: 1760

TSCA

All components of this product are included in the TSCA inventory or are regulated under FIFRA.

Section 313 Supplier Notification

This product contains the following chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372):

CAS#	Common Name	Weight%
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This information should be included in all MSDSs that are copied and distributed for this material.

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) by CCI Inc.

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End of MSDS
