

**MATERIAL SAFETY DATA SHEET**

(PREPARED ACCORDING TO 29 CFR 1910,1200)

DATE PREPARED: 08/18/98

**SECTION 1- PRODUCT IDENTIFICATION**

Manufacturer: KaiVac, Incorporated  
 Address: 401 S. Third St., Hamilton, OH 45011  
 Trade Name: KaiPow  
 Chemical Family: Mild Alkali

Emergency Phone: InfoTrac 800-535-5053  
 Information Phone: 800-287-1136  
 Product Type: Highly alkaline cleaning agent  
 Formula: Proprietary

**SECTION 2- INGREDIENTS**

CHEMICAL NAME	CAS NO.	PERCENT:
Water	7732-18-8	>78%
Sodium Hydroxide	1310-73-2	8.2%
NonylPhenoxyPolyethoxyEthanol	26027-38-3	3%
Sodium Metasilicate	6834-92-0	3%
Methyl N,N'-bis-(2-hydroxyethyl) isodecylxypropyl ammonium chloride	68478-94-4	2.8%
Bis-(2-hydroxyethyl) isodecylxypropylamine oxide	68478-65-9	1.2%
Sodium EDTA	64-02-8	<0.5%
Citrus Perfume	Trade secret per perfume manufacturer	<0.5%
Green Dye	Trade secret per dye manufacturer	<0.005%
Polydimethylsiloxane	063148-62-9	0.0002%

**SECTION 3- PHYSICAL AND CHEMICAL DATA**

Boiling point (F):	212	Specific gravity:	1.06
pH:	12.5	Vapor Pressure (mmHg):	Same as water
Vapor Density (Air=1):	Same as water	Solubility in water:	Complete
Evaporation rate (vs. H <sub>2</sub> O):	About the same	Ether=1:	>1
Appearance and Odor:	Clear green liquid with citrus fragrance	%Volatile by volume:	68
		#/Gallon:	8.85

**SECTION 4- FIRE AND EXPLOSION DATA**

Flash point (TCC):	Non-flammable	Extinguishing media:	N/A
Special fire fighting procedures:	N/A	Unusual explosion and fire procedures:	None

**SECTION 5- REACTIVE DATA**

Stability:	Stable	Incompatibility:	Strong acids, aluminum, magnesium, zinc
CONDITIONS TO AVOID:	Freezing temperatures	HAZARDOUS DECOMPOSITION:	None
HAZARDOUS POLYMERIZATION:	Will not occur		

**SECTION 6- HEALTH HAZARD DATA**

Threshold limit value product: None established  
 Primary routes of exposure: Eye: X Skin: X Inhalations: X Ingestion: X Other:  
 Signs and symptoms of over-exposure (Acute): Prolonged breathing of vapor can cause headache or irritation  
 Signs and symptoms of over-exposure (Chronic): Material may defat skin on repeated exposure leading to dermatitis  
 Carcinogenicity: NTP: NO IARC: NO OSHA: NO  
 Signs and symptoms of exposure: Vapors may be irritating to eyes, nose and throat.  
 Medical conditions aggravated by exposure: Skin contact can aggravate existing dermatitis.  
 Carcinogen or suspect carcinogen ingredients: This product contains no listed carcinogens.

**SECTION 7- EMERGENCY AND FIRST AID PROCEDURES**

Eyes: Flush eyes with running water for 15 minutes. Get prompt medical attention.  
 Skin: Wash skin with plenty of water while removing affected clothing. Apply hand cream. Get medical attention.  
 Ingestion: Get prompt medical attention. If conscious, give large amounts of water followed with vinegar or fruit juice.  
 Inhalation: Remove to fresh air. Administer oxygen if breathing is difficult. Get medical attention.

**SECTION 8- SPECIAL PROTECTION INFORMATION**

Respiratory protection: Not required when used per label directions. Required if above TLV. Ventilation requirements: Sufficient to keep level below TLV.  
 Protective gloves: Neoprene chemical gloves recommended, particularly when handling the concentrate.  
 Other protective clothing: Chemical goggles, face shield, and apron are recommended if splashing is possible.  
 Work hygienic practices: Avoid breathing vapor or spray mist. Wash hands thoroughly after contact and before breaks and meals.

**SECTION 9- SPILL OR LEAK PROCEDURES**

Steps to be taken if released or spilled: Dilute with water and pick up with mop, wet-vac pick-up or automatic scrubber. Floor may be slippery. Follow state and local regulations for disposal of large non-reclaimable spills.  
 Waste disposal methods: Dilute and pour down sewer if local regulations permit. Product is completely biodegradable.

**SECTION 10- STORAGE AND HANDLING INFORMATION**

Precautions to be taken in handling and storage: Keep container closed when not in use. Keep from freezing. Always follow label directions.

**locations for use:**

- schools
- universities
- factories
- airports
- stadiums
- convention centers
- restaurants
- office buildings
- hospitals
- nursing homes

"TSCA: All ingredients are listed on the TSCA chemical substance inventory"