

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product Name: Hand-Off Liquid
Dishwasher Detergent W-1000-C / W-1000-D / W-1000-E
Manufacturer's Name PEN Products
Address: 2010 E. New York Street
Indianapolis, IN 46201
Telephone Number: (317) 955-6800
(317) 736-2550

Emergency Telephone Number:
CHEMTREC (800) 424-9300

SECTION 2 – HAZARD(S) IDENTIFICATION

Emergency Overview: **DANGER.** CORROSIVE to skin and eyes.
Inhalation (respiratory tract): CORROSIVE
Ingestion (gastrointestinal tract): CORROSIVE
Chronic (Cancer) Effects: Components of material do not cause cancer.
Teratology (Birth defect) Information: Components do not cause birth defects.



SECTION 3 - COMPOSITION

Chemical Name:	CAS No.:	PEL:	TLV:	Wt %:
POTASSIUM HYDROXIDE	1310-58-3	2.0 mg/m3	2.0 mg/m3	5-10%
PROPRIETARY SURFACTANT BLEND	BLEND	None	None	0-5%
WATER	7732-18-5	None	None	q.s.

** These chemicals are subject to the reporting requirements of SARA TITLE III

SECTION 4 - FIRST AID MEASURES

Eyes: Flush immediately with running water for fifteen minutes. See a physician.
Skin: Flush with water. See a physician if necessary.
Inhalation (respiratory tract): Remove to fresh air. See a physician if necessary.
Ingestion (gastrointestinal tract): Dilute stomach contents with water, if conscious. See a physician.

SECTION 5 - FIRE FIGHTING MEASURES

Autoignition Temperature: None.
Extinguishing Media: None. Material will not burn.
Special Fire Fighting Procedures: None.
Unusual Fire and Explosion Hazards: Contact with soft metals such as aluminum may release hydrogen gas.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Action to Take for Spills and Leaks: Small spills should be mopped up. Large spills should be diked with inert absorbent. Material may be pumped back into container or neutralized for disposal. See also Section 7.

SECTION 7 - HANDLING AND STORAGE

Handling: Avoid contact with eyes. Avoid prolonged contact with skin. Do not ingest. Keep out of reach of children.
Storage: Store product in ambient temperature. Avoid freezing or high heat.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment: **Eye Protection:** Safety glasses. **Skin Protection:** Rubber or Neoprene gloves.

Other Protective Clothing or Equipment: None.

Respiratory Protection: Not normally required. If needed, such as in enclosed areas, use NIOSH approved mask or respirator to keep concentration of components below their TLV's.

Ventilation: Normal room air circulation.

For exposure control levels such as Threshold Limit Values (TLV's) please refer to Section 3.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor: Clear liquid, mild odor. **Odor Threshold:** N/A

Vapor Pressure: ND

Vapor Density: >1

Evaporation Rate (Bu0ac=1): 0.10

Boiling Point: >212° F

Solubility in Water: Complete.

Specific Gravity: 1.08

Melting / Freezing Point: 32° F

pH: 13.5

Flash Point: > 200° F nonflammable

Upper/lower flammable limits: UEL: N/A LEL: N/A

Auto-ignition temperature: N/A

Decomposition temperature: N/A

Partition coefficient: n-octanol/water: N/A

Viscosity: 50 cps.

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable. **Reactivity:** Contact with soft metals may release hydrogen gas.

Conditions to Avoid: Avoid extremes in temperature.

Incompatibility (Materials to avoid): Amines, acids, and soft metals.

Hazardous Decomposition of Byproducts: None.

Hazardous Polymerization: Will not occur.

SECTION 11 - TOXICOLOGY INFORMATION

To obtain toxicity data (e.g., LD50, LC50) for the ingredients listed in Section 2, please phone Technical Services at (317) 926-1267.

SECTION 12 - ECOLOGICAL INFORMATION

Hans-Off Detergent is fully biodegradable. Low concentrations may be harmful to fish and other aquatic organisms.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Method: Dispose of in accordance with all applicable local, state, county, and federal laws.

SECTION 14 - TRANSPORT INFORMATION

Shipping Name: Corrosive Liquid, n.o.s. (potassium hydroxide)

Hazard Class: 8

ID No.: UN 1760

Packing Group: II

SECTION 15 - REGULATORY INFORMATION

All ingredients in Hands-Off Detergent are listed on the TSCA inventory.

This product contains no OSHA, NTP or IARC listed carcinogens.

SECTION 16 - OTHER INFORMATION

Health: 2

0= no appreciable health hazard

1= skin irritant

2= hazardous ingredients <75%

3= hazardous ingredients >75%

HMIS RATING:

Flammability: 0

0= flash point >200 F

1= 200 > flash point > 140

2= 140 > flash point > 100

3= flash point <= 100 F

Reactivity: 0

0-3 assigned on basis of reactivity of individual ingredients

HMIS Hazard Ratings

Health:	2
Flammability:	0
Reactivity:	0

The data in this material safety data sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This information is based upon technical data we believe is reliable. Because actual conditions of use are outside our control, no warranties, expressed or implied, are made and we assume no liability in connection with any use of this information.

Every effort has been made to accurately assess the possible hazards associated with this product. We believe that the actual hazards encountered using our products are less severe than those represented by the concentrated raw materials used to make them.