



## MATERIAL SAFETY DATA SHEET

### HAZARD RATINGS

Health: 3  
 Flammability: 2  
 Reactivity: 1  
 Personal Protection: C

**NOTICE: Judgment may be based on indirect test and technical literature. The OSHA Hazard Communication Standard only requires MSDS's and special labeling for materials defined as "HAZARDOUS"; see 29 CFR 1910.1200 (c). This document may be about a product which is NOT hazardous but is provided as information for our customers. See references for information.**

### SECTION I. PRODUCT IDENTIFICATION

Product Identifier: DHL  
 Product VOC: 19.15%  
 Manufactured For: Sundry Tech  
 PO Box 427  
 Frederick, PA 19435

Product Identification #(PIF): 1472  
 Emergency Telephone #: 1-800-255-3924  
 General Information #: 610-754-7283  
 Prepared by: Sonya Lockhart  
 Date Prepared: November 8, 2005

### SECTION II. HAZARDOUS INGREDIENTS

	CAS #	OSHA/PEL	TLV	STEL	max. %
1. Sodium Hydroxide	1310-73-2	2mg/m <sup>3</sup>		2mg/m <sup>3</sup> NE	17
2. Tetrahydrofurfuryl alcohol	97-99-4	NE		NE NE	20

### SECTION III. HEALTH HAZARD INFORMATION

.....Primary Routes of Entry: X Skin X Eyes    Inhalation    Ingestion

◆ *Effects of overexposure:*

- Eye Contact: Corrosive.
- Skin Contact: Corrosive to body tissues. Dermatitis may result from repeated exposure.
- Inhalation: Excessive exposure to vapor may cause dizziness, blurred vision, nausea, vomiting or headaches.
- Ingestion: May cause irritation and /or burning to the entire gastrointestinal tract; nausea, pain bleeding and ulceration. May be harmful if swallowed.

### SECTION IV. EMERGENCY FIRST AID

- ◆ *Eyes:* Flush well with water for at least 15 minutes. Seek medical attention.
- ◆ *Skin:* Wash with soap and water. If irritation develops, seek medical attention.
- ◆ *Inhalation:* Move to fresh air.
- ◆ *Ingestion:* Drink lots of water to dilute, **DO NOT INDUCE VOMITING.** Get medical help immediately.

### SECTION V. FIRE & EXPLOSION DATA

Flammability: COMBUSTIBLE LIQUID  
 Means of extinction: Foam, dry chemicals, water spray, CO<sub>2</sub>.  
 Auto-ignition Temperature: ND  
 Hazardous combustion products: Carbon monoxide, carbon dioxide.

Flash Point: 165° F Closed Cup  
 Upper Flammability Limit (% by volume): ND  
 Lower Flammability Limit (% by volume): ND

- ◆ *Special Fire Fighting Procedures:* Wear NIOSH approved pressure self-contained breathing apparatus and full protective clothing.
- ◆ *Unusual Fire Fighting Hazard:* Contact with some metals, particularly magnesium, aluminum, and zinc (galvanized), can generate hydrogen rapidly, which is explosive. Combustible liquid, keep away from heat and open flames.

**SECTION VI.****REACTIVITY DATA**

Chemical stability: Stable

Hazardous polymerization: Will not occur

Incompatibility with other substances: Concentrated acids, organic material, magnesium, aluminum, zinc (galvanized), tin, chromium, brass and bronze, and various food sugar. Strong oxidizing agents, strong acids.

Reactivity, and under what conditions? Reaction with various sugars may form carbon monoxide. When added to water, produces a tremendous amount of heat. Heat, sparks, flame or other sources of ignition.

Hazardous decomposition products: Carbon monoxide, carbon dioxide.

**SECTION VII.****HANDLING & STORAGE**

*Storage:* Keep container closed, when not in use. Keep away from heat, flame, or sunlight. Protect from physical damage.

*Handling:* Do not premix with other chemicals. Exercise reasonable care and precaution. Keep out of reach of children.

**SECTION VIII.****EXPOSURE CONTROL/PERSONAL PROTECTION**

Personal protective equipment: Use rubber gloves, eye protection and protective clothing.

Gloves (specify): Chemical resistant gloves

Respirator (specify): NIOSH, if ventilation inadequate

Eye (specify): Chemical resistant eye ware

Footwear (specify): Chemical resistant shoes

Clothing (specify): Apron

Other: Eyewash and safety shower in immediate area.

Always provide adequate ventilation.

**SECTION IX.****SPECIAL PRECAUTIONS/ OTHER COMMENTS**

Carefully read all instructions on label before handling this product. "FOR INDUSTRIAL USE ONLY"

**SECTION X.****PHYSICAL DATA**

Boiling point: >212°F

Vapor Density: (Air = 1): ND

Specific Gravity, (water + 1.0): 1.175

pH, 1%: 13 - 14

% Volatile/ volume: 85.6%

Vapor Pressure: ND

Solubility: Complete

Evaporation Rate: ND

*Description/odor:* Clear, straw liquid with characteristic odor.

**SECTION XI.****TOXICOLOGICAL INFORMATION**

◆ Effects of acute exposure to product: Corrosive to eyes and skin.

◆ Effects of chronic exposure to product: Dermatitis may result from repeated exposure. Prolonged exposure to vapor may cause CNS depression.

**SECTION XII.****ECOLOGICAL INFORMATION**

Sodium hydroxide: Moderately toxic to aquatic organisms: LC50 Daphnia = 100 ppm; LC50 King Salmon = 48 ppm.

**SECTION XIII.****ACCIDENTAL RELEASE MEASURES/ DISPOSAL INFORMATION**

Large spills cannot occur because of packaging. Dam up spills with inert material, neutralize with mild acid such as citric acid. Neutralized material should be soaked onto absorbent and shoveled into waste containers. Dispose of contaminated absorbent material in accordance to local, state and federal regulations. Do not release to open, public waters.

**SECTION XIV.****TRANSPORT INFORMATION**

Hazardous according to Table 49 CFR 172.101: **CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (Sodium Hydroxide), 8, UN3267, II.**

**SECTION XV.****REGULATORY INFORMATION****SARA TITLE III REPORTING REQUIREMENTS**

SECTION 302: Not listed  
SECTION 311: Acute Health and Fire Hazard  
SECTION 312: Acute Health and Fire Hazard  
SECTION 313: Not listed

CERCLA: This product has a RQ of 6,667 lb (3,027 kg) as Sodium Hydroxide.

RCRA: A waste containing this product may have the RCRA hazardous waste no. D002 (Corrosive) and D001 (Ignitable) (40 CFR 261.22).

**SECTION XVI.****ADDITIONAL INFORMATION**

OSHA List (29 FR 1910.1200) as hazardous chemical.

**The information contained herein is based on data available to us and is believed to be correct. We make no warranty, however, expressed or implied regarding the accuracy of these data or the results obtained from the use thereof.**

**Regulatory Standards:** DOT TITLE 49, Code of Federal Regulations 172.101: Parts 100 to 177, Revised 10/1/92.  
SUPER FUND AMENDMENTS REAUTHORIZATION ACT OF 1986, TITLE III TOXIC SUBSTANCE CONTROL ACT LIST (TSCA)- INGREDIENTS LISTED. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES NATIONAL TOXICOLOGICAL PROGRAM (NTP) REPORT OF CARCINOGENS INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) MONOGRAPHS, OCCUPATIONAL SAFETY & HEALTH REGULATIONS. CODE OF FED. REGS. FOOD & DRUG, 21 PARTS 170 to 199, Revised 4/1/91, 173.310.