H13706

#134

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 3 Flammability = 0 Reactivity = 0
HMIS RATING: Health = 3 Flammability = 0 Reactivity = 0

SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION (1072A)

Manufacturer's Name: HILLYARD INDUSTRIES
Address: 302 North Fourth Street, St. Joseph, MO 64501
Product Name: KA-NB CLEANER/DEGREASER
Date Prepared: January 30, 2007
Prepared by: Regulatory Affairs Department
Emergency Telephone No.: (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)
Other information calls: (816) 233-1321 (Ext. 8285)
http://www.hillyard.com

SECTION II -- INGREDIENTS/IDENTITY INFORMATION

Components (Specific Chemical Identity; Common Name(s))	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Dipropylene glycol propyl ether	29911-27-1	not est.	not est.	N/A	2-4
Sodium metasilicate (1)	6834-92-0	not est.	not est.	2 mg/M^3	3-8
Water	7732-18-5	not est.	not est.	N/A	---
Sodium carbonate	497-19-8	not est.	not est.	N/A	---
Tetrasodium salt of EDTA	64-02-8	not est.	not est.	N/A	---
Alkyl imino acid, sodium salt	64972-19-6	not est.	not est.	N/A	---
Complex Blend of Surfactants	68991-48-0, 68439-46-3	not est.	not est.	N/A	---

(1) Exposure may be elevated for Sodium hydroxide per OSHA, PEL = 2 mg/M^3 or TLV = 2 mg/M^3.
VOC = 300 gm/l.; VOS = 0.2 lbs./gallon; VOS of a 1:1 dilution = 0.01%

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: corrected 211°F
Vapor Pressure (mm Hg.): 17.6
Vapor Density (AIR = 1): 0.8
Solubility in Water: Complete
pH (concentrate) = 12.5 - 13.5
Specific Gravity (H_2O = 1): 25°C = 1.09 & 39°C = 1.09
Percent Volatile by Volume (%): 77.3%
Evaporation Rate (ethyl ether = 1): Slower than 1
Appearance and Odor: clear red liquid; solvent odor

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash point: None to 200°F (T.C.C.) **Flammable Limits:** LEL = N/A UEL = N/A
Extinguishing Media: Foam, carbon dioxide, dry chemical, water spray.
Special Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.
Unusual Fire and Explosion Hazards: None known to manufacturer

SECTION V – PHYSICAL HAZARDS

Stability: Stable **Conditions to Avoid:** N/A
Incompatibility (Materials to Avoid): Do not mix with strong acids.
Hazardous Decomposition Products or Byproducts: As with any organic material, combustion will produce carbon dioxide and carbon monoxide.
Hazardous Polymerization: Will not occur **Conditions to Avoid:** N/A

SECTION VI – HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Skin? Yes Ingestion? Yes

1. When tested as specified the concentrate was not considered to be a primary skin irritant per the Federal Hazardous Substance Act. The concentrate did induce severe irritation in all six test animals with complete recovery in two by day 14 and balance recovered in day 21. The concentrate is a severe eye irritant. The concentrate was not shown to be acutely toxic following oral administration at 5 gm./kg. The concentrate was not acutely toxic when administered in an acute inhalation exposure at a nominal concentration of 40.8 mg./L (Actual concentration of 8.8 mg./L). 2. None known to Hillyard.