

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 1 Flammability = 0 Reactivity = 0
HMIS RATING: Health = 1/1 Flammability = 0 Reactivity = 0

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (489N-55D)**Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** QUICK & CLEAN**KA-NB CLEANER/DEGREASER****Address:** 302 North Fourth Street
St. Joseph, MO 64501**Date Prepared:** December 16, 1998**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	0.5-2
Sodium metasilicate (1)	6834-92-0	not est.	not est.	2 mg/M ³	1-3
Water	7732-18-5	not est.	not est.	N/A	---
Alkyl imino acid, sodium salt	64972-19-6	not est.	not est.	N/A	---
2 Propanol-1- Butoxy	5131-66-8	not est.	not est.	N/A	---

(1) Exposure may be elevated for Sodium hydroxide per OSHA, PEL = 2 mg/M³ or TLV = 2 mg/M³.

VOC = 23 gm/l.; VOS = 0.2 lbs./gallon

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: corrected 214°F	Specific Gravity (H₂O = 1): 25°C = 1.02 & 39°C = 1.02
Vapor Pressure (mm Hg.): 17.5	Percent Volatile by Volume (%): 96.18%
Vapor Density (AIR = 1): 0.8	Evaporation Rate (ethyl ether = 1): Slower than 1
Solubility in Water: Complete	Appearance and Odor: clear red liquid; solvent odor
pH (concentrate) = 12.8	

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 is an 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 44mg./L (Actual concentration of 44 mg./L). 2. None known to Hillyard.

HEALTH HAZARDS (continued)

HEALTH HAZARDS (1. Acute and 2. Chronic)

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No

This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

Signs and Symptoms of Exposure: Harmful if swallowed or absorbed through skin. May cause nose and throat irritation. Causes eye burns. Prolonged contact may cause severe skin irritation. Inhalation of high concentration of vapors results in nose and throat irritation.

Medical Conditions Generally Aggravated by Exposure: Repeated overexposure may result in damage to the blood.

Emergency and First Aid Procedures: If swallowed get medical attention immediately. In case of contact, immediately flush eyes or skin with plenty of water for 15 minutes. If irritation persists get medical attention. Inhalation – If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Absorb large spills with floor dry material (see disposal below).

Small spills: Flush with water and pick up with mop or wet vacuum.

Waste Disposal Method: Dispose of in accordance with state or local regulations. EPA Hazardous Waste Classification: Corrosive (pH = 12.8 on concentrate). Do not dispose of in storm drains or streams.

Precautions To Be Taken In Handling And Storing: Keep container closed when not in use. Since empty packages retain product residue, follow label warning even after package is empty. Spray mist may produce respiratory irritation or damage and increase susceptibility to respiratory illness.

Other Precautions: USE WITH ADEQUATE VENTILATION. Avoid breathing vapors or spray mist. Open windows and doors, use exhaust fans or other means to insure fresh air entry during application and drying. Refer to OSHA STANDARD 29 CFR 1910.94 for technical guidelines on keeping air contamination below acceptable exposure limits. Do not take internally. Avoid eye contact or prolonged contact with skin. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and 40 CFR Part 372.

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): Ventilate to keep air below TLV. A NIOSH approved respirator for organic vapor should be worn if needed to keep level below TLV.

Ventilation:

Local Exhaust = Recommended **Mechanical (General) =** Recommended **Special =** N/A **Other =** N/A

Protective Gloves: None required **Eye Protection:** Chemical safety goggles suggested

Other Protective Clothing or Equipment: Use uniforms or coveralls.

Work / Hygienic Practices: Wash thoroughly after handling.

SECTION IX - TRANSPORTATION INFORMATION

Applicable regulations: 49 CFR = no; IMCO = no; IATA = no

Proper shipping name: Cleaning compound

UN NO.: not applicable **Limited Qty.:** not applicable **Hazard Class:** not applicable

Labels required: not required **DOT Exception:** not applicable

EPA Hazardous waste number / code: not listed

Hazardous waste characteristics: Ignitability = not applicable; Corrosivity = yes; Reactivity = not applicable

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