

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 2 Flammability = 0 Reactivity = 0

HMIS RATING: Health = 2 Flammability = 0 Reactivity = 0

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (0532B)**Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** QUICK & CLEAN
SPRAY CLEANER**Address:** 302 North Fourth Street
St. Joseph, MO 64501**Date Prepared:** December 31, 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. 2303)<http://www.hillyard.com>**SECTION II -- INGREDIENTS/IDENTITY INFORMATION****Components****(Specific Chemical Identity:**

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Butyl cellosolve (2-Butoxyethanol) * (1)	111-76-2	25 ppm	25 ppm	N/A	3-5
Sodium metasilicate (2)	6834-92-0	not established	not established	2 mg/M ³	<2
Water	7732-18-5	none	none	N/A	---
Octylphenoxy Polyethoxy Ethanol	9036-19-5	not established	not established	N/A	---

*This product contains the following chemicals subject to the reporting requirements of SARA Title III, Sec. 313, and 40 CFR Part 372: 2-Butoxyethanol.

(1) Regulated by OSHA and the following states: CT, FL, IL, LA, MA, NJ, PA, RI.

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

VOC = 41 g/l.; VOC less water = 734 g/l.

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 743 mm Hg	208°F	Specific Gravity (H₂O = 1): 25°C = 1.00	& 39°C = 1.00
Vapor Pressure (mm Hg.): 17.7		Percent Volatile by Volume (%): 98.1	
Vapor Density (AIR = 1): 0.7		Evaporation Rate (ethyl ether = 1): slower than 1	
Solubility in Water: appreciable		Appearance and Odor: Clear, colorless liquid; lemon odor	
pH (average) = 12-13			

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA**Flash point:** None (T.C.C.)**Flammable Limits:** LEL = N/A UEL = N/A**Extinguishing Media:** Foam, carbon dioxide, dry chemical (water spray to cool closed containers).**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:** N/A**Hazardous Polymerization:** Will not occur**Conditions to Avoid:** N/A**SECTION VI -- HEALTH HAZARD DATA****Routes of entry:** Inhalation? Yes Skin? Yes Ingestion? Yes**HEALTH HAZARDS (1. Acute and 2. Chronic)**

1. Eye irritant. Harmful if swallowed or absorbed through skin. 2. Prolonged and repeated skin contact may cause drying, defatting and dermatitis.

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%.

SECTION VI -- HEALTH HAZARD DATA continued

Signs and Symptoms of Exposure: Prolonged overexposure of fine fog mist may result in eye and respiratory irritation. Ingestion may cause burns to mouth, throat and stomach. Prolonged overexposure may cause nose, throat, and respiratory tract irritation, coughing and headache.

Medical Conditions Generally Aggravated by Exposure: None known by manufacturer.

Emergency and First Aid Procedures: Eye contact: Flush with plenty of water for 15 minutes. If eye irritation persists get medical attention. Skin: Immediately flush with water. Call a physician if irritation persists. Ingestion: If swallowed do not induce vomiting; call a physician, hospital emergency room or poison control center immediately. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing.

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 12-13 on concentrate). When diluted to 1% solution with distilled water pH is 10.35; not EPA Hazardous Waste.

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. Do not dispose of in storm drains or streams.

Other Precautions: USE WITH ADEQUATE VENTILATION. Avoid breathing vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels above applicable limits wear an appropriate properly fitted respirator (NIOSH/MSHA approved) during and after application. Avoid skin and eye contact. Wash thoroughly after handling. Do not take internally.

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): Ventilate to keep air below TLV.

Ventilation:

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

Protective Gloves: N/A **Eye Protection:** Chemical safety goggles (recommended)

Other Protective Clothing or Equipment: N/A

Work / Hygienic Practices: Wash thoroughly after handling.

SECTION IX - TRANSPORTATION INFORMATION

Applicable regulations: DOT = 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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The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate.

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