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

Manufacturer's Name: HILLYARD INDUSTRIES
Address: Product Name: QWIK-OFF
Date Prepared: January 5, 2001

St. Joseph, MO 64501 **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: **OTHER LIMITS** Common Name(s) CAS# **OSHA PEL ACGIH TLV** RECOMMENDED % Butvl cellosolve 111-76-2 50 ppm 25 ppm N/A 6-8 Sodium metasilicate 6834-92-0 $2mg/M^3$ not listed N/A 2-4 Water not established 7732-18-5 not established N/A

South Coast Air Management District Rule 443.1: V.O.C. = 84.5 g./l.; V.O.C. less water, less exempt solvents = 693 g./l.

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 201-212°F **Specific Gravity (H₂O = 1):** 25°C = 1.05 & 39°C = 1.06

Vapor Pressure (mm Hg.): 17.3 Percent Volatile by Volume (%): 90.5 – 91.5 Vapor Density (AIR = 1): 0.9 Evaporation Rate (ethyl ether = 1): <1

Solubility in Water: appreciable **Appearance and Odor:** blue liquid; lemon odor

pH of concentrate = 12.5 - 13.5

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: 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

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Harmful or fatal if swallowed. When tested per the Federal Hazardous Substance Act product showed 40% mortality at 5 g./kg. Concentrate causes eye burns and skin irritation; harmful if absorbed through skin; may cause nose, throat, and lung irritation. Was not acutely toxic to the 10 test subjects following a 1 hour exposure at a nominal concentration of 56. 3467g/L. (Actual concentration of 22.59 mg./L.). This is the maximum concentration that could be generated by this test. 2. None known to manufacturer.

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: Butyl cellosolve is readily absorbed through the skin in toxic amounts. Inhalation of high concentration of vapors results in respiratory and eye irritation, narcosis, and hematuria, and damages liver and kidneys.

Medical Conditions Generally Aggravated by Exposure: Repeated overexposure to butyl cellosolve 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 at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean contaminated shoes. If affected by inhalation of vapor or spray mist, remove to fresh air.

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 = 13 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.

Other Precautions: Spray mist may produce respiratory irritation or damage and increase susceptibility to respiratory illness. 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.

SECTION VIII -- CONTROL MEASURES

Wear appropriate, properly fitted respirator (NIOSH or MSHA approved) unless air monitoring demonstrates vapor or mist levels are below applicable limits.

Ventilation: at least 10 air changes per hour recommended

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

Protective Gloves: impervious rubber gloves Eye Protection: chemical safety goggles

Other Protective Clothing or Equipment: protective clothing such as uniforms, coveralls Work / Hygienic Practices: Wash contaminated clothing before reuse (including shoes).

SECTION IX - TRANSPORTATION INFORMATION DOT SHIPPING DESCRIPTION ON BILL OF LADING:

(Gallon boxes) = Consumer Commodity ORM-D

Package Marking = Consumer Commodity ORM-D Label = None Hazard Class = not applicable

DOT SHIPPING DESCRIPTION ON BILL OF LADING:

(5 and 55 Gallon packages) = Compound, cleaning, liquid, (Sodium metasilicate), 8, NA 1760, PG III Package Marking = Compound, cleaning liquid (Sodium metasilicate), NA 1760

Package Label = Corrosive Hazard Class = 8 Package Group = III

EPA Hazardous waste number/code: not listed

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

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