

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 1 Flammability = 2 Reactivity = 0
 HMIS RATING: Health = 1 Flammability = 2 Reactivity = 0

SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION *(565N-26B)

Manufacturer's Name: HILLYARD INDUSTRIES Product Name: WINDO-CLEAN+
 Address: 302 North Fourth Street Date Prepared: September 25, 2011 (version 2)
 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:

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Water	7732-18-5	none	none	N/A	---
Butyl cellosolve (2-Butoxyethanol) * (1)	111-76-2	50 ppm	20 ppm	N/A	12-17
Isopropyl alcohol (2)	67-63-0	400 ppm	400 ppm	N/A	4-9
Propylene Glycol Monomethyl Ether(3)	107-98-2	100 ppm	100 ppm	STEL=150 ppm	4-9
Sulfated Ethoxylated Alcohol	27731-61-9	none	none	N/A	---

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

(1) and (3) Regulated by OSHA and the following states: CA, FL, ID, IL, MA, MN, OH, PA, TX, WA, WI.

(2) Regulated by OSHA and the following states: CA, FL, ID, IL, MA, MN, NJ, OH, PA, TX, WA, WI.

VOC = 865 g/l less water

N/A= Not Applicable N/E= Not Established

*SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS

*Boiling Point: 184°F Specific Gravity (H₂O = 1): 25°C = 0.98 *Density= 8.15 lbs/gl
 *Vapor Pressure (mm Hg.): 17.5 *Percent Volatile by Volume (%): 97 - 98
 Vapor Density (AIR = 1): 1.5 Evaporation Rate (ethyl ether = 1): slower than 1
 Solubility in Water: complete *Appearance and Odor: clear, dark purple liquid; solvent odor
 *pH (concentrate) = 6.5 – 7.5

*SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash point: 111°F (T.C.C.) minimum Flammable Limits: LEL = 1.1% UEL = N/A (mixture)
 Extinguishing Media: Alcohol foam, dry chemical, carbon dioxide
 Special Fire Fighting Procedures: Water spray may be ineffective, but may be used to cool closed containers.
 Unusual Fire and Explosion Hazards: None known to manufacturer

SECTION V – PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: Heat, sparks and open flame
 Incompatibility (Materials to Avoid): Strong oxidizing materials
 Hazardous Decomposition Products or Byproducts: As with any organic material, combustion will produce carbon dioxide and probably carbon monoxide.
 Hazardous Polymerization: Will not occur Conditions to Avoid: None known

SECTION VI – HEALTH HAZARD DATA

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

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. When tested according to Federal Hazardous Substance Act product was not a primary skin irritant but concentrate produced slight skin irritation on prolonged exposure. When tested, the concentrate was found to be an eye irritant. Also test on the concentrate showed that acute oral LD50 was not acutely toxic at 8.0 g/kg. Inhalation testing showed that the LC50 nominal concentration to be 15.5 mg./l. (actual concentration 12.5 mg./l.). Prolonged breathing of high concentrations of butyl cellosolve vapor may result in respiratory and eye irritation, narcosis, hematuria and damage to liver and kidneys.

2. None known to Hillyard Industries.

Date: September 25, 2011

SECTION VI – HEALTH HAZARD DATA continued

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: Overexposure may cause drowsiness, headache and uncoordination.**Medical Conditions Generally Aggravated by Exposure:** None known by manufacturer.**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. Small spills: Flush with water and pick up with mop.**Waste Disposal Method:** Dispose of contaminated absorbent, container, and unused contents in accordance with state and local regulations. Do not dispose of in storm drains or streams.**Precautions To Be Taken In Handling And Storing:** Keep away from heat, sparks and flames. Since empty packages retain product residue, follow label warnings even after packages is empty.**Other Precautions:** Keep away from heat and flame. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. USE ONLY WITH ADEQUATE VENTILATION. Do not breathe 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 are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application. Follow respirator manufacturer's directions for respirator use. Close container after each use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not take internally. Contains Butyl Cellosolve which may cause blood damage based on animal data.**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:** Recommend at least 5 CFM**Local Exhaust =** N/A **Mechanical (General) =** Recommended **Special =** N/A **Other =** N/A**Protective Gloves:** none required with normal use **Eye Protection:** Splash goggles where splashing is a concern.**Other Protective Clothing or Equipment:** use uniforms or coveralls.**Work / Hygienic Practices:** Wash thoroughly after handling**SECTION IX – TRANSPORTATION INFORMATION****Applicable regulations:** no 49 CFR; yes IMCO; yes IATA.**Proper shipping name for air and foreign water:** Flammable Liquid, N.O.S. (Isopropyl alcohol), 3.3, UN 1993, III**Proper shipping name for U.S. highway:** Cleaning Compound**UN No.:** not applicable for highway **Limited Qty.:** not applicable **Hazard Class =** not applicable**Labels required:** not required for highway **DOT Exception:** not applicable**EPA Hazardous waste characteristics:****Ignitability =** yes **Corrosivity =** not applicable **Reactivity =** not applicable**DISCLAIMER OF WARRANTIES****NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY NATURE ARE MADE WITH RESPECT TO THE PRODUCT(S) OR INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET.**

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.

THE BUYER OR USER ASSUMES ALL RISKS ASSOCIATED WITH THE USE, MISUSE OR DISPOSAL OF THIS PRODUCT. THE BUYER OR USER IS RESPONSIBLE TO COMPLY WITH ALL FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING THE USE, MISUSE OR DISPOSAL OF THESE PRODUCTS.

Version 2, * Denotes revisions since last published MSDS. Supersedes Version 1 April 28, 2008