MATERIAL SAFETY DATA SHEET

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

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (548N-72A Ready to use=6oz/gal)

Manufacturer's Name: HILLYARD INDUSTRIES Address: 302 North Fourth Street

Product Name: CITRUS-SCRUB RTU Date Prepared: August 10, 2012 (version 4)

St. Joseph, MO 64501

Regulatory Affairs Department Prepared by:

Emergency Telephone (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure Other information calls: (816) 233-1321 (Ext. 8285) or accident involving chemicals.)

http://www.hillyard.com

*SECTION II -- INGREDIENTS/IDENTITY INFORMATION

Components

(Specific Chemical Identity:		OSHA	ACGIH	OTHER LIMITS	
Common Name(s)	CAS#	PEL	TLV	RECOMMENDED	%
d-Limonene	5989-27-5	N/E	N/E	N/A	0.3-0.6
*Diethanolamine	111-42-2	N/E	1 mg/m^3	15 mg/m³ (TWA)	< 0.2
Water	7732-18-5	none	none	N/A	
VOC = 0.4% (6.07/gal)					

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

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: Specific Gravity ($H_2O = 1$): 25°C = 1.00 8.34 lb/g 739 mm Hg 205°F Density 99.4% Vapor Pressure (mm Hg.): 17.5 Percent Volatile by Volume (%): Vapor Density (AIR = 1): Evaporation Rate (ethyl ether = 1): 0.6 Slower than 1 Solubility in Water: *Appearance and Odor: Opaque liquid with citrus fragrance complete pH (concentrate) = 7-8

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

None to 200°F Corrected (T.C.C.) Flammable Limits: LEL = 1% UEL = N.A.

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. Class II fire procedures; wear NIOSH approved respirator and full protective gear.

Unusual Fire and Explosion Hazards: None known to Hillyard Industries.

SECTION V -- PHYSICAL HAZARDS

Stability: Stable

Conditions to Avoid: Heat and flame.

Incompatibility (Materials to Avoid): Strong oxidizing material; cationics.

Hazardous Decomposition Products or Byproducts: As with any organic materials, combustion will produce carbon dioxide and probably carbon monoxide.

Hazardous Polymerization: Will not occur Conditions to Avoid: None known to concentrate manufacturer

SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Skin? No Ingestion? LD50 greater than 5 g/kg on concentrated product

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Prolonged contact may cause mild eye or skin irritation. Ingestion can cause nausea, vomiting and gastrointestinal irritation. 2. None known to Hillyard Industries.

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%,

^{*}This material contains a chemical known to the state of California to cause cancer: Diethanolamine 111-42-2.

Page 2 of 2 Product No.: #822 Product Name: Ready to use Arsenal Citrus-Scrub Date: February 21, 2012

SECTION VI -- HEALTH HAZARD DATA cont.

Signs and Symptoms of Exposure: Prolonged contact may cause mild irritation to skin and eyes.

Medical Conditions Generally Aggravated by Exposure: Open cuts and sores may be irritated by contact.

Emergency and First Aid Procedures: In case of contact with eyes or skin, flush with plenty of water for 15 minutes; remove contact lenses then flush eyes with water again. Remove contaminated clothing. Call a physician if irritation persists. Wash clothing before reuse.

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 should be flushed with water and pick up with mop.

Waste Disposal Method: Dispose of in accordance with state or local regulations.

Precautions To Be Taken In Handling And Storing: Keep container closed when not in use. Since empty packages retain product residue, follow label warnings even after package is empty.

Other Precautions: Do not dispose of in storm drains or streams. 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): Not normally required with adequate ventilation.

Ventilation:

Local Exhaust = Normally adequate Mechanical (General) = Recommended Special = N/A Other = N/A Protective Gloves: None required with normal use. Eye Protection: None required with normal use.

Other Protective Clothing or Equipment: Handle as a combustible liquid.

Work / Hygienic Practices: Avoid prolonged contact with eyes, skin, and clothing. Wash thoroughly after handling; wash clothing before reuse.

DISCLAIMER OF WARRANTIES

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Version 4, * Denotes revisions since last published MSDS. Supersedes Version 3 February 21, 2012