				#1002
	ERIAL SAFETY I			
NFPA RATING: Health = 1 Flammabi	ity = 2 Reactivity	ity = 0		
HMIS RATING: Health = 1 Flammabi	ity = 2 Reactivity	ity = 0		
	•	2		
SECTION I IDENTITY AND MANUFA	CTURER'S INFOI	RMATION	*(492N-70A)	
Manufacturer's Name: HILLYARD INDU			SS AND PLASTIC CLE	ANER
Address: 302 North Fourth St			h 4, 2010 (version 2)	
				ant.
St. Joseph, MO 645	_		latory Affairs Departme	
Emergency Telephone No.: (800) 424-9300	•	•		
exposure or accident involving chemicals.)	Othe	r information ca	alls: (816) 233-1321 (Ex	· ·
			http://www.hillyard.c	<u>om</u>
SECTION II INGREDIENTS/IDENTIT	Y INFORMATION	I		
Components				
(Specific Chemical Identity:			OTHER LIMITS	
Common Name(s) CAS#	OSHA PEL	ACGIH TLV	RECOMMENDED	%
Isopropyl alcohol (1) 67-63-	0 400 ppm	400 ppm	500 (STEL)	2-6
Water 7732-18-	5 none	none	N/A	
(1) Regulated by OSHA and the following states:	CT, FL, IL, LA, MA,	NJ, PA, RI.		
VOS = 987 gm./l.; VOC = 800 gm./1. less water;	or VOS = 8.23 lbs./gal	•		
*SECTION III PHYSICAL / CHEMICA	L CHARACTERIS	STICS		
Boiling Point: 205°F	Specific Gravity	$(H_2O = 1): 25^{\circ}C =$	$= 0.99 * \mathbf{Density} = 8$	8.17 lbs/gal.
Vapor Pressure (mm Hg.): 17.8	Percent Volatile	by Volume (%):	>99	
Vapor Density (AIR = 1): 0.6	Evaporation Rat	e (ethyl ether $= 1$)	slower than 1	
Solubility in Water: complete	Appearance and	Odor: clear,	blue liquid; isopropyl alco	hol odor
pH (concentrate) = $7 - 8$				
SECTION IV FIRE AND EXPLOSION	HAZARD DATA			
Flash point: 116°F (Tag Closed Cup) minimum Flammable Limits: LEL = 2.1 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.				
Unusual Fire and Explosion Hazards:	None known to manuf	acturer		
-				
SECTION V PHYSICAL HAZARDS				
Stability: Stable Conditions to Avoid: Heat, sparks and open flame				
Incompatibility (Materials to Avoid):	Strong oxidizing mater	rials		
Hazardous Decomposition Products o	Byproducts: As with	h any organic mate	rial, combustion will prod	uce carbon
dioxide and probably carbon monoxide.				
Hazardous Polymerization: Will n	ot occur Co	onditions to Avoid	I: None known to man	ufacturer
SECTION VI HEALTH HAZARD DAT	Α			
Routes of entry: Inhalation? Yes	Skin? No	Ingestion?	Yes	
HEALTH HAZARDS (1. Acute and 2. Chroni	2)			
1. Prolonged eye contact may produce irritation. Harmful if swallowed.				
2. Prolonged breathing of high concentra	tions of fine fog mist c		ry irritation.	
Chemical listed as Carcinogen or Potential Carcinogen:				
5		onographs =	No OSHA = No)
This product has no carcinogens listed b	IARC, NTP, NIOSH,	or ACGIH as of t	his date, greater than or eq	ual to 0.1%.

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SECTION VI -- HEALTH HAZARD DATA cont.

Signs and Symptoms of Exposure: Direct eye contact with concentrate can cause mild irritation. If ingested, causes drunkenness (drowsiness, headache and uncoordination) and vomiting.

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

Emergency and First Aid Procedures: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. If eye irritation persists get medical attention. If swallowed, CALL A PHYSICIAN, hospital emergency room or poison control center immediately; induce vomiting. Inhalation-If affected by high concentrations of vapor or spray mist, remove victim to fresh air.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Eliminate all sources of ignition. Absorb large spills with floor dry material. Small spills: Flush with water and pick up with mop.

Waste Disposal Method: Dispose of in accordance with state and local regulations. Since the product is an aqueous solution containing less than 24% alcohol and with a pH of less than 12.5 and greater than 2, it would not be considered a federal hazardous waste per EPA regulations (40 CFR 261).

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. Waste from normal use may be sewered to a public-owned treatment works in compliance with applicable federal, state, and local requirements. Container disposal: Triple rinse (or equivalent) then offer clean, dry container for recycling or reconditioning.

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 excess contact with skin.

SECTION VIII -- CONTROL MEASURES

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

Ventilation: Recommended at least 5 CFM

Local Exhaust = N/A Mechanical (General) = Recommended Special = N/A Other = N/A Protective Gloves: N/A Eye Protection: N/A

Other Protective Clothing or Equipment: N/A

Work / Hygienic Practices: Wash thoroughly after handling

SECTION IX - TRANSPORTATION INFORMATION

Applicable regulations:CFR = NoIMCO = YesIATA = Yes.Proper shipping name for air and foreign water:Flammable liquid, N.O.S., (Isopropyl alcohol),3, UN1993, IIIProper shipping name for highway:Cleaning compoundUN No.:Not applicable for highwayLimited Qty.:Not applicable for highwayLimited Qty.:Not applicableHazard class:Not required for highwayDOT Exception:Not applicablePA Hazardous waste characteristics:Ignitability = Applicable;Corrosivity = Not applicable;Reactivity = Not applicable.

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Version 2, * Denotes revisions since last published MSDS. Supersedes Version 1 December 31, 1998