MATERIAL SAFETY DATA SHEET								
<b>NFPA RATING:</b> Health =	3 F	lammability =	= 0 React	ivity = 0				
<b>HMIS RATING:</b> Health =	3 F	lammability =	= 0 React	ivity = 0				
				-				
<b>SECTION I – IDENTITY</b> A	AND MA	NUFACTU	RER'S INFO	RMATION	(1142A)			
Manufacturer's Name: HII	LYARD	INDUSTRI	ES <b>Prod</b>	luct Name: EX'	TRA STRENGTH CS	SP CLEANER		
Address: 302	Address:302 North Fourth StreetDate Prepared: April 28, 2008							
St.	St. Joseph, MO 64501 <b>Prepared by:</b> Regulatory Affairs Department							
<b>Emergency Telephone No.:</b>	(800) 42	4-9300 (Only						
exposure or accident involvin					alls: (816) 233-1321 (			
L	U	,			http://www.hillyard	,		
<b>SECTION II – INGREDIE</b>	NTS/IDI	ENTITY INI	FORMATION	J				
Components								
(Specific Chemical Identity:					OTHER LIMITS			
Common Name(s)		CAS#	OSHA PEL	ACGIH TLV	RECOMMENDED	%		
Phosphoric acid * (1)		7664-38-2	$1 \text{ mg/M}^3$	$1 \text{ mg/M}^3$	N/A	15-20		
Butyl cellosolve (2-Butoxyethar	nol) *	111-76-2	50 ppm	20 ppm	N/A	1-3		
(2)								
Water		7732-18-5	none	none	N/A			
*This product contains the follo	-	•	to the reporting	requirements of S	ARA Title III, Sec. 313,	and 40 CFR Part		
372: Phosphoric acid and 2-Butoxyethanol.								
(1) Regulated by OSHA, CT, FL, IL, LA, MA, NJ, NY, PA, RI								
(2) Regulated by OSHA, FL, IL, LA, MA, NJ, PA, RI								
VOC = $13 \text{ g/1.}$ ; VOC less water	= 102  g/	ι.						
SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS								
SECTION III DHVSICAI		MICAL CH	ADACTEDIS	TICS				
				<b>TICS</b> $H_2O = 1$ ): 25°C =	1.09 & 39°C =	1.09		

8	170 1	······································	,	
Vapor Pressure (mm Hg.): 17.5		Percent Volatile by Volume (%):		avg. 83
Vapor Density (AIR = 1	<b>l):</b> 0.6	Evaporation Rate (ethyl	ether =	slower than 1
		1):		
Solubility in Water: appreciable		Appearance and Odor:	lightly hazy, heavy-bodied liquid; lemon	
			odor	

#### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**Flammable Limits:** LEL = Flash point: none (P.M.C.C.) N/A UEL = N/A

Extinguishing Media: Carbon dioxide, foam or dry chemical

Special Fire Fighting Procedures: Hot phosphoric acid is corrosive. Wear protective clothing to avoid contact with skin or eyes.

Unusual Fire and Explosion Hazards: Keep away from heat, sparks and open flames. May generate hydrogen gas in contact with some metals.

#### SECTION V – PHYSICAL HAZARDS

**Stability:** Stable **Conditions to Avoid:** None known Incompatibility (Materials to Avoid): Corrodes some metals and alloys; cyanides and strong alkalis. Hazardous Decomposition Products or Byproducts: Hydrogen gas from contact with some metals (contains some corrosion inhibitors and is not expected to cause any problems with sewage pipes).

Will not occur **Hazardous Polymerization: Conditions to Avoid:** Not pertinent

#### SECTION VI - HEALTH HAZARD DATA

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

# HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Short-term exposure to the acid or its solutions may cause eye and skin burns. Spray mist may irritate nose and throat.

2. Chronic exposure may produce severe skin and eye burns.

#### Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = **I.A.R.C.** Monographs = No OSHA = No No

This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

## page 2 of #125 - Extra Strength CSP Cleaner

## SECTION VI – HEALTH HAZARD DATA cont.

**Signs and Symptoms of Exposure:** Contact: burns of eyes, skin and on mouth and lips after ingestion, with sour taste of acid; severe gastrointestinal irritation, nausea, vomiting, bloody diarrhea.

#### Medical Conditions Generally Aggravated by Exposure: Not applicable

**Emergency and First Aid Procedures:** Ingestion: Immediately give large amounts of water and call a physician, hospital emergency room or poison control center. If excess inhaled remove to fresh air. In case of contact, immediately flush eyes or skin with plenty of water for 15 minutes; remove contact lenses and flush eyes again with water. For eyes, CALL A PHYSICIAN. If skin irritation persists, get medical attention. Remove and wash all contaminated clothing before reuse.

# SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

**Steps To Be Taken In Case Material Is Released Or Spilled:** Collect spilled acid in most convenient and safe manner for reclamation. Absorb liquid in vermiculite, dry sand or similar material and dispose of in a secured sanitary landfill according to state, federal and local regulations.

**Waste Disposal Method:** Since pH is less than 1, material is classified as corrosive material per EPA definition of hazardous waste regarding pH. Dispose of concentrated material in accordance with local pollution regulations. Do not put in storm drains. **Precautions To Be Taken In Handling And Storing:** Keep container closed when not in use.

**Other Precautions:** Contact lenses should not be worn when working with this chemical. 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

**Respiratory Protection (Specify Type):** NIOSH approved self-contained breathing apparatus in areas with high mist concentrations.

Ventilation:

Local Exhaust =	If required to maintain	Mechanical (General) =	Acceptable	Special	N/A	Other	N/A
	TLV			=		=	
<b>Protective Gloves:</b>	Acid-resistant rubber Eye		Chemical safety goggles				
	Protection:						

**Other Protective Clothing or Equipment:** Acid-resistant aprons, or suits as required; rubber footwear where applicable. **Work / Hygienic Practices:** Wash thoroughly from skin.

## SECTION IX - TRANSPORTATION INFORMATION

 Applicable regulations: DOT = Yes; IMCO = Yes; IATA = Yes

 Proper shipping name (Quart and Gallon Boxes) for U.S. Highway: Consumer Commodity ORM-D

 Proper shipping name (55 Gallon Drums) for U.S. Highway: Compounds, cleaning liquid, (Phosphoric acid), 8, NA 1760, PG

 III

 UN No.: UN1760
 Limited Qty.: not applicable

 Hazard Class: 8

 Label required: not required on quart and gallon boxes by highway; 55 gallon drum = Corrosive Label

 DOT Exception: not applicable

 EPA Hazardous waste characteristics:

 Ignitability = not applicable; Corrosivity = yes; 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.