			SAFELY DALAS	SHEEI		
NFPA RATING: Healt	•	•				
HMIS RATING: Health = 2, Flammability = 0, Physical Hazard = 0						
SECTION I IDENTI Manufacturer's Name:					N-73A) Descaler & Metal Brigh t	tener)
Address:	302 North Fourth St	reet			, 2011 (version 1)	
	St. Joseph, MO 645	01	Prepared b	y: Regulato	ry 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	<u>l</u>
SECTION II INGREDIENTS/IDENTITY INFORMATION						
Components						
(Specific Chemical Ide	ntity:	~ . ~		ACGIH	OTHER LIMITS	
Common Name(s)		CAS#	OSHA PEL	TLV	RECOMMENDED	%
Phosphoric acid ^{*(1)}		7664-38-2	1mg./m ³	1mg./m^3	$3 mg/m^3$	30-35%
Water		7732-18-5	none	none	N.A.	
Linear Primary Alcohol	2	68439-46-3	not est.	not est.	N.A.	
*This product contains the following chemicals subject to the reporting requirements of SARA Title III, Sec. 313, and 40 CFR Part						
372: Phosphoric acid.						
⁽¹⁾ Regulated by OSHA, CT, DE, FL, ID, IL, LA, MA, MN, NJ, NY, PA, RI, WA, WI.						
VOC (less water) = $2 g/l$.;						
 *SECTION III PHYSICAL / CHEMICAL CHARACTERISTICS Boiling Point: 214°F Vapor Pressure (mm Hg.): 17.0 Vapor Density (AIR = 1): 1.0 Solubility in Water: complete *pH = <1 *Section Control of the section of th						
SECTION IV FIRE AND EXPLOSION HAZARD DATA						
Flash point: None to Boiling (T.C.C.) Flammable Limits: $LEL = N.A$. $UEL = N.A$.						
Extinguishing Media: Foam, dry chemical, carbon dioxide, water spray.						
Special Fire Fighting Procedures: Hot phosphoric acid is corrosive. Self contained breathing apparatus and protective						
clothing should be worn in fighting fires involving chemicals.						
Unusual Fire and Explosion Hazards: May generate hydrogen gas in contact with some metals.						
 SECTION V PHYSICAL HAZARDS Stability: Stable Conditions to Avoid: None known to manufacturer. Incompatibility (Materials to Avoid): Corrodes some metals and alloys; cyanides and strong alkalies (ammonia) or bleach. Hazardous Decomposition Products or Byproducts: Hydrogen gas from contact with some metals. Hazardous Polymerization: Will not Occur Conditions to Avoid: N.A. 						
SECTION VI HEALTH HAZARD DATA						
Routes of entry: Inhalation? by mist Skin? yes Ingestion? yes						
HEALTH HAZARDS (1. Acute and 2. Chronic)						
1. According to Primary Skin Irritation Test (FHSA), product concentrate is severe irritant on prolonged exposure; Eye Irritation Test (FHSA) = eye irritant. When tested as specified this product was not considered to be a UN/DOT corrosive						

Irritation Test (FHSA) = eye irritant. When tested as specified this product was not considered to be a UN/DOT corrosive at 4 hours. Prolonged skin contact may cause skin burns. Spray mist may irritate nose and throat. Harmful or fatal if swallowed.

2. Chronic local effects may consist of multiple areas of superficial destruction of skin or dermatitis.

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%.

MATERIAL SAFETY DATA SHEET

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SECTION VI -- HEALTH HAZARD DATA (cont.)

Signs and Symptoms of Exposure: Contact: eye irritation and/or burns of skin, and on mouth and lips after ingestion, with sour taste of acid, severe gastrointestinal irritation, nausea, vomiting, bloody diarrhea. Inhalation of high concentrations of vapors results in respiratory and eye irritation, narcosis, headache, nausea, dizziness.

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

Emergency and First Aid Procedures: If swallowed, immediately give large quantities of water or milk. Follow with milk of magnesia, beaten eggs or vegetable oil. Do not induce vomiting. Call a physician immediately. In case of contact, immediately flush eyes or skin with plenty of water for 15 minutes. For eyes, GET PROMPT MEDICAL ATTENTION. Remove and wash all contaminated clothing before reuse. If excess inhaled, remove to fresh air.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Absorb with floor dry or similar inert material. Sweep or scrape up and put in appropriate container. Rinse spill area thoroughly with water. Avoid contamination of storm drains, sewers, or other unauthorized treatment drainage systems and natural waterways.

Waste Disposal Method: Disposal is regulated under the Resource Conservation and Recovery Act (40 CFR 261.22) as a corrosive waste. Regulated quantities should be neutralized by a permitted facility in accordance with applicable local, state, and federal regulations.

Precautions To Be Taken In Handling And Storing: Product residue may remain on or in empty containers. All precautions for handling the product must be used in handling the empty container or residue. Container disposal: Triple rinse (or equivalent) then offer clean, dry container for recycling or reconditioning. Waste from normal use may be sewered to a public-owned treatment works in compliance with applicable federal, state and local requirements.

Other Precautions: Avoid breathing fine fog spray mist. Use with adequate ventilation. 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 applicable exposure limits. Avoid contact with skin, eyes and clothing. Do not take internally.

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type):

Not usually necessary. If spraying in a fine fog mist use NIOSH approved respirator (TC-21C-279, TC-23C-736, or TC-23C-745). **Ventilation:** At least 3 air exchanges per hour suggested in good public restrooms.

Local Exhaust = Recommended Mechanical (General) = Recommended Special = N.A. Other = N.A. Protective Gloves: Impervious gloves (rubber). Eye Protection: Chemical safety goggles. Other Protective Clothing or Equipment: Not usually necessary

Work / Hygienic Practices: Wash thoroughly after handling. Upon contact remove contaminated clothing; wash before reuse.

SECTION IX – TRANSPORTATION INFORMATION

Applicable regulations:49 CFR = noIMCO = noIATA = noProper shipping name:Cleaning CompoundUN No.:not applicableLimited Qty.:not applicableHazard Class:not applicableLabels required:not requiredDOT Exception:not applicableEPA Hazardous waste number / code:not listedHazardous waste characteristics:Ignitability = not applicableCorrosivity = yesReactivity = not applicable

DISCLAIMER OF WARRANTIES

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Version 1, * Denotes revisions since last published MSDS. Supersedes New January 16, 2007