					#/01
Μ	ATERIAL S	SAFETY DA	TA SHEET		
<b>NFPA RATING:</b> Health = 3 Fla	mmability =	0 Reactiv	vity = 0		
<b>HMIS RATING:</b> Health = 3 Fla	mmability =	0 Reactiv	vity = 0		
	lining				
SECTION I – IDENTITY AND MANUFA	ACTURER'S I	<b>NFORMATIO</b>	N (4	438N-97A)	
Manufacturer's Name: HILLYARD IN	DUSTRIES	<b>Product</b> 1	Name: C2 KA D	EGREASER	
Address: 302 North Fourt	h Street	Date Pre	pared: August 18	3. 2005	
St. Joseph, MO		Prepared		y Affairs Department	
Emergency Telephone No.: (800) 424-9300					nosure or
accident involving chemicals.)	(Only in the e			(816) 233-1321 (Ext. 82	
decident involving chemicals.)		Other Im	tor mation cans.	http://www.hillyard.com	,
SECTION II – INGREDIENTS/IDENTIT	V INFORMA	TION		<u>http://www.http://ard.com</u>	<u>un</u>
Components					
(Specific Chemical Identity:				OTHED I IMITS	
		OCILA DEL		OTHER LIMITS	0/
Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	RECOMMENDED	%
Butyl cellosolve (2-Butoxyethanol) * (1)	111-76-2	25 ppm	25 ppm	N/A	2-4
Sodium metasilicate (2)	6834-92-0	not est.	not est.	$2 \text{ mg/M}^3$	2-4
Water	7732-18-5	not est.	not est.	N/A	
Sodium carbonate	497-19-8	not est.	not est.	N/A	
Tetrasodium salt of EDTA	64-02-8	not est.	not est.	N/A	
Alkyl imino acid, sodium salt	64972-19-6	not est.	not est.	N/A	
Polyoxyethylene thioether	9004-83-5	not est.	not est.	N/A	
* This product contains the following chemic	cal subject to re	eporting requiren	nents of SARA Ti	tle III, Sec. 313, and 40 (	CFR Part 372:
2-Butoxyethanol.					
(1) Regulated by OSHA and the following states: FL, IL, LA, MA, NJ, PA, RI.					
(2) Exposure may be elevated for Sodium hydroxide per OSHA, PEL = $2 \text{ mg/M}^3$ or TLV = $2 \text{ mg/M}^3$ .					
VOC = 390  gm./l.; VOS = 0.26  lbs./gal.; VC	S when diluted	11:1 = 0.01%	-	-	
SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS					
<b>Boiling Point:</b> corrected 209°	-		$I_2O = 1$ ): 25°C =	1.09 & $39^{\circ}C = 1.0$	)9
Vapor Pressure (mm Hg.): 17.5	Per	cent Volatile by	Volume (%):	77	
Vapor Density (AIR = 1): $0.7$	Eva	poration Rate (	ethyl ether =	slower than 1	
	1):				
Solubility in Water : appr	eciable App	pearance and O	dor: clear	red liquid; butyl cellosol	ve odor
pH(concentrate) = 13					
-					
SECTION IV – FIRE AND EXPLOSION HAZARD DATA					
Flash point:None (T.C.C.)Flammable Limits: $LEL = N/A$ UEL = N/A					
Extinguishing Media: Foam, carbon dioxide, dry chemical, water spray.					
Special Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing should be worn in fighting					
fires involving chemicals.					
Unusual Fire and Explosion Haza	rds: None kno	own to manufact	urer		
-					
SECTION V – PHYSICAL HAZARDS					
Stability: Stable			N/A		
Incompatibility (Materials to Avo	id): Do not mi	ix with strong ac	ids.		
Hazardous Decomposition Produce	cts or Byprodu	icts: As with an	y organic materia	l, combustion will produ	ce carbon
dioxide and carbon monoxide.					
Hazardous Polymerization: Wil	ll not occur	Condi	itions to Avoid:	N/A	
-					
SECTION VI – HEALTH HAZARD DAT					
<b>Routes of entry:</b> Inhalation?	Yes S	kin? Yes	Ingestion?	Yes	
HEALTH HAZARDS (1. Acute and 2. Chronic)					
1. When tested per the Federal Hazardous Substance Act the concentrated product was not considered to be a primary skin					
irritant. The concentrated sample did induce severe skin irritation in all six test subjects but complete recovery was found					
in two animals in day 21, and significant improvement in the other four. Severe eye irritation is produced with contact to					
the concentrate. The concentrated product was not shown to be acutely toxic when administered at 5 gm./kg. The					
concentrated product was not shown to be acutely toxic when administered in an acute inhalation at nominal concentration					
of 46 mg./L. (Actual concentration of 46.1 mg./L. 2. None known to Hillyard.					
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### HEALTH HAZARDS (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:** Butyl cellosolve is readily absorbed through the skin in toxic amounts. Inhalation of high concentration of vapors results in respiratory and eye irritation, narcosis, hematuria and damages liver and kidneys.

Medical Conditions Generally Aggravated by Exposure: Repeated overexposure may result in damage to the blood. Emergency and First Aid Procedures: Inhalation: Remove person to fresh air. If breathing difficulty persists or occurs later, call a physician. In case of contact immediately flush eyes or skin with plenty of water for 15 minutes while removing contaminated clothes and shoes. Get prompt medical attention. Wash clothing before reuse and thoroughly clean contaminated shoes. If swallowed, immediately give large amounts of water and CALL A PHYSICIAN, hospital emergency room or poison control center.

# 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 (see disposal below). Small spills: Flush with water and pick up with mop or wet vacuum.

**Waste Disposal Method:** Dispose of in accordance with state or local regulations. EPA Hazardous Waste Classification: Corrosive (pH = 13 on concentrate). Do not dispose of in storm drains or streams.

**Precautions To Be Taken In Handling And Storing:** Keep container closed when not in use. Since empty packages retain product residue, follow label warning even after package is empty. Spray mist may produce respiratory irritation or damage and increase susceptibility to respiratory illness.

**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. Do not get in eyes, on skin, or on clothing.

## 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:

 Local Exhaust =
 Recommended
 Mechanical (General) =
 Recommended
 Special =
 N/A
 Other =
 N/A

 Protective Gloves:
 Impervious rubber gloves
 Eye Protection:
 Chemical safety goggles

 Other Protective Clothing or Equipment:
 Impervious boots and aprons where splashing of concentrate is a problem; otherwise, use uniforms or coveralls.
 N/A
 Other wise

Work / Hygienic Practices: Wash thoroughly after handling.

 SECTION IX – TRANSPORTATION INFORMATION

 Applicable regulations:
 49 CFR = no; IMCO = no; IATA = no

 Proper shipping name:
 Cleaning compound

 UN NO.:
 not applicable
 Limited Qty.: not applicable
 Hazard Class = not applicable

 Labels required:
 not required
 DOT Exception: not applicable
 EPA Hazardous waste number / code: not listed

 Hazardous waste characteristics:
 Ignitability = not applicable; Corrosivity = yes; Reactivity = not applicable

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