APR. 28. 2003 8:11AM POLYM	ERICS,INC. 330 9	928 Ø844 <del></del>		NO. 54	LSAFETY		
A 2077 HSA 2n0	ZINCO	XIDE .	. 2		SHEET 1506		
PRODUCT/COMPANY IDE	NTIFICATIO	1	,				
ADE NAME (COMMON NAME OR SYNONYM)			· PR	ODUCT CODE# DOX, AZOFLO	· "		
nc Oxide (French Process)		FORMULA	ZU, AZU	IDOX, AZOFEO	MOLECULAR WEIGHT		
EMICAL NAME		ZnO			81.38		
P. O. BOX	NC - HILLSBORO,	INC.			ISED DATE .		
uillsboro,	ISSUED 3/9,	9/94 REVISED DATE					
TELEPHONE (24 HOUR EMERGENCY OR	INFORMATION):	(217)532-39	31				
3. COMPOSITION/INFORMA	TION ON INC	GREDIEN	TS				
MATERIAL OR COMPONENT	CA			PERMISSIBLE AIR	CONC.(mg/cu.m.)		
Zinc oxide	1314	-13-2 99.7-	100	5.0 Resp. Dust 10.0 Total Dust	10.0 dust		
æad Cadmium		-92-1 < 0. -43-9 < 0.					
C. HAZARDS IDENTIFICATI	ON						
PRIMARY ROUTES OF ENTRY INGESTION INHAL	ATION SKIN	Not listed as	a carcinor	on by IARC, NT	P, OSHA.		
ACUTE OVEREXPOSURE (SYMPTOMS AND EFFECT 1. Metal fame fever with symptoms of fever, of fume or dust.  2. Zinc oxide is relatively non-toxic by mouth,  3. Dermatitis (papulopustular eczema) with in CHRONIC OVEREXPOSURE (SYMPTOMS AND EFFECT 1. MEDICAL CONDITIONS POSSIBLY AGGRAVATED None reported.	but may cause fever, atense itching may respectively	naucea stomac	h cramos	or diarrhea in lar	halation of zinc oxide ge doses.		
D. FIRST AID MEASURES							
Inhalation: Remove from exposure; place inc Ingestion: Induce vomiting in conscious indiv Skin or Eyes: Flush with plenty of water. If s	ymptoms develop, co	a physician. cian. ensult a physicia	n.				
FLASH POINT	E. FIRE FIGHTING MEASURES AUTO IGNITION TEMPERATURE						
Not Applicable UNUSUAL FIRE AND EXPLOSION HAZARDS	Not Applicable FIRE EXTINGUISHING No specific agents	AGENTS RECO	MMENDED	Not Applicable FIRE EXTINGUISHING AGENTS TO AVOID No specific agents			
Not Applicable  SPECIAL FIRE FIGHTING PRECAUTIONS  Use NIOSH/MSHA approved self-contains			ctive cloth	ing if involved in	Rrc.		

MATERIAL SAFETY DATA SHEET Frinted: 02/05/02 Page: 1 For Coatings, Resins and Related Materials Revised : 02/05/99 不光病表示之实者是对古英国的名式名称自由的对话都是是我们知道是是为关注是是大力的国际的大力的现在分式也是有效的人们是是是对大力的是这种人的是是对人们是是这个人们 SECTION I - PRODUCT INDENTIFICATION Information Phone: 330-928-2210 Manufacturer: POLYMERICS INC. Emergency Phone: 330-928-2210 2828 SECOND ST. CUYAHOGA FALLS OH 44221 | Hazard Ratings: Health - 2\*

Product Class: RUBBER DISPERSION | none -> extreme Fire - 1

Trade Name : ETU 70 HYDRIN SLAB | 0 ---> 4 Reactivity - 0 Product Code : 100072 2 Personal Protection - B C.A.S. Number: MIXTURE TOXIC SUBSTANCE CONTROL ACT (TSCA): ALL THE COMPONENTS IN THIS PRODUCT ARE LISTED ON THE TSCA 8 (b) INVENTORY LIST OF CHEMICAL SUBSTANCES. SECTION II - HAZARDOUS INGREDIENTS Weight --- Exposure Limits ---- VP % ACGIH/TLV OSHA/PEL mm HG CAS # Ingrediente ETHYLENE THIOUREA (ETU) 96-45-7 70. N/AP ETU IS AN EXPERIMENTAL TERATOGEN AND CARCINOGEN. 伊斯木汀太祖教院式马通祖院社大汉通祖院就并不通典院院式在英俊院院就为这位的第三人称单数的对方通道的的 有不可以可以使用的对方,但是他们也不是他们的对于这种的。这 SECTION III - PHYSICAL DATA Boiling Range: N/A Vapor Density: Non Volatile

Liquid Density: Heavier than Water.

Evap. Rate: Non Volatile

Volatiles vol % N/A Wgt% 0.0 Wgt per gallon: 10.72 Pounds.

Spec. Gravity: 1.28691 Appearance: OFF-WHITE RUBBER SLAB V.O.C.: NA 大大江河河北京大江南部南南河江河南南南省大江河南南省大江河南南省大江河南南省江江河南南河河江河南南河河江河河南南河河江河河南南河河江河河南南河河江河河南南河河江河河 SECTION IV - FIRE AND EXPLOSION HAZARD DATA \_\_\_\_\_\_ Flammability Class: N Flash Point: NA F LEL: NA UEL: N -EXTINGUISHING MEDIA: WATER SPRAY, DRY CHEMICAL, FOAM CO2 MAY BE INEFFECTIVE ON LARGER FIRES DUE TO LACK OF COOLING CAPACITY WHICH MAY RESULT IN REIGNITION. -SPECIAL FIREFIGHTING PROCEDURES: FIREFIGHTERS AND OTHERS EXPOSED TO THE PRODUCTS OF COMBUSTION SHOULD WEAR FULL PROTECTIVE CLOTHING INCLUDING SELF-CONTAINED APPARATI. -UNUSUAL FIRE & EXPLOSION HAZARDS: DENSE BLACK SMOKE WILL RESULT FROM COMBUSTION ALONG WITH THE

GENERATION OF IRRITATING AND TOXIC GASES.

Material Safety Data Sheet for: ETU 70 HYDRIN SLAB(100072 2)

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SECTION V - HEALTH HAZARD DATA 

-PERMISSIBLE EXPOSURE LEVEL:

EXPOSURE LIMITS HAVE NOT BEEN ESTABLISHED FOR THIS PRODUCT. ATMOSPHERIC LEVELS SHOULD BE MAINTAINED AS LOW AS POSSIBLE BY USING ENGINEERING CONTROLS LIKE LOCAL EXHAUST VENTILATION. EXISTING EXPOSURE LIMITS FOR INDIVIDUAL COMPONENTS ARE LISTED IN SECTION II.

## -EFFECTS OF OVEREXPOSURE:

- INHALATION: NO EFFECTS HAVE BEEN REPORTED, BUT ARE EXPECTED TO BE SIMILAR TO THOSE FOUND FROM INGESTION. DOES IRRITATE THE MUSCOUS MEMBRANES OF THE RESPIRATORY.
- SKIN CONTACT: MATERIAL IS IRRITATING TO THE SKIN AND ABSORP-TION DOES TAKE PLACE THROUGH THE SKIN. BIRTH DEFECTS HAVE OCCURRED IN ANIMALS FOLLOWING SKIN ABSORPTION, THEREFORE, ETU IS CONSIDERED A TERATOGEN.
- EYE CONTACT: MATERIAL IS IRRITATING TO THE EYES.
- INGESTION: ACUTE EXPOSURES BY ANIMALS HAVE CAUSED FATAL PULMON-ARY EDEMA. CHRONIC EXPOSURES HAVE PRODUCED HYPOTHYROIDISM CHARACTERIZED BY OBESITY, DRY SKIN & HAIR, LOW BLOOD PRESSURE, AND GOITERS. OTHER SYMPTOMS INCLUDE TREMORS OF FINGER AND HAND MUSCLES, VOMITING, DIARRHEA, SWEATING, SKIN ERUPTIONS, AND HYPERGLYCEMIA. ETU IS READILY TRANSFERRED ACROSS THE PLACENTA, AND HAS CAUSED NERVOUS, UROGENITAL, OCULAR, AND SKELETAL SYSTEM DAMAGE TO THE FETUS. ETU ALSO HAS PRODUCED CANCERS OF THE THYROID AND LIVER IN ANIMAL STUDIES.
- NOTE: THIS PRODUCT IS ENCAPSULATED IN A POLYMERIC BINDER WHICH REDUCES OR ELIMINATES AIRBORNE PARTICULATES AND MINIMIZES SKIN CONTACT. LIKEWISE, THE ADVERSE HEALTH EFFECTS ASSOCIATED WITH THESE ROUTES OF EXPOSURE ARE ALSO REDUCED OR ELIMINATED.

## -FIRST AID:

- INHALATION: REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. KEEP AFFECTED PERSON WARM AND AT REST. GET MEDICAL ATTENTION IF RESPIRATORY IRRITATION DEVELOPS OR IF BREATHING BECOMES DIFFICULT.
- SKIN CONTACT: IMMEDIATELY REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREA WITH SOAP AND LARGE AMOUNTS OF WATER. LAUNDER CLOTHING BEFORE REUSE.
- EYE CONTACT: WASH EYES PROMPTLY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. HOLD THE EYELIDS APART TO GET MAXI-MUM CLEANSING. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. INGESTION: GIVE 1-2 GLASSES OF WATER TO DILUTE CHEMICAL. GET MEDICAL ATTENTION IMMEDIATELY.

" 第三大学部型成为产品使用成为三式代码设置的大学部位的各种企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业。 SECTION VI - REACTIVITY DATA

------STABLITY: { ] Unstable [x] Stable

HAZARDOUS POLYMERIZATION: [ ] May occur [x] Will not occur

POLYMERICS INC. Material Safety Data Sheet for: ETU 70 HYDRIN SLAB(100072 2) SECTION VI - REACTIVITY DATA (cont.) \_\_\_\_\_\_ -INCOMPATIBILITY ACIDS, OXIDIZING AGENTS. -CONDITIONS TO AVOID: OVERHEATING DURING PROCESSING OR HIGH TEMPERATURES DURING STORAGE. -HAZARDOUS DECOMPOSITION PRODUCTS: DECOMPOSES IN HEAT TO EMIT TOXIC FUMES LIKE NOX, SOX, AND NITROGEN AMINES; HYDROCHLORIC AND CARBOXYLIC ACIDS; ALDEHYDES; KETONES; UNSATURATED HYDROCARBONS; AND CHLORINATED HYDROCAR-BONS. 国是全国工作技术的现在分词连接的关系是否是现在的现在分词是有限的现在分词是现代的现在分词 医克拉氏氏征检尿管切迹 人名英格兰斯特尔人名英格兰斯特尔人名英格兰斯特尔 SECTION VII - SPILL OR LEAK PROCEDURES -STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED SWEEP UP AND COLLECT SPILLED MATERIAL IN ENCLOSED CONTAINERS. -WASTE DISPOSAL METHOD: INDUSTRIAL WASTE INCINERATION OR SPECIAL WASTE DISPOSAL UNDER LOCAL, STATE, AND FEDERAL RCRA REGULATIONS. THIS MATERIAL IS CONSIDERED A RCRA HAZARDOUS WASTE ACCORDING TO 40 CFR PART 261.33. EPA HAZARDOUS WASTE NUMBER Ull6. SECTION VIII - SPECIAL PROTECTION INFORMATION: -RESPIRATORY PROTECTION: APPROPRIATE RESPIRATORY PROTECTION IS REQUIRED WHEN EXPOSURE TO AN AIRBORNE CONTAMINANT IS LIKELY TO EXCEED ACCEPTABLE LIMITS. RESPIRATORS SHOULD BE SELECTED AND USED IN ACCORDANCE WITH OSHA, SUBPART I (29 CFR 1910.134) AND MANUFACTURER'S RECOM-MENDATIONS. THE PRODUCT FORM AND ITS INTENDED USE SHOULD NOT REQUIRE RESPIRATORY PROTECTION SOLELY AS A RESULT OF USING THIS PRODUCT. -VENTILATION: EFFECTIVE EXHAUST VENTILATION WILL DRAW THE DUST, FUMES, AND VAPORS AWAY FROM THE BREATHING ZONE OF THE WORKERS TO PREVENT ROUTINE INHALATION. LOCAL EXHAUST VENTILATION AT THE PROCESS UNIT HAVING A CAPTURE VELOCITY OF 150 TO 200 CFM IS RECOMMENDED. -PROTECTIVE GLOVES:

ANY COATED GLOVES LIKE LATEX OR NEOPRENE SHOULD PROVIDE GOOD PROTECTION. LATEX GLOVES MAY BE WORN UNDER CLOTH GLOVES AS A GLOVE LINER.

-EYE PROTECTION:

WEAR PROTECTIVE GOGGLES WHILE PROCESSING IN HIGH CONCENTRATIONS; OTHERWISE SAFETY GLASSES WILL PROVIDE ADEQUATE PROTECTION. EYEWASH STATIONS SHOULD BE EASILY ACCESSIBLE.

-OTHER PROTECTIVE EQUIPMENT:

AS NEEDED TO MINIMIZE SKIN CONTACT.

POLYMERICS INC. Page: 4 Material Safety Data Sheet for: ETU 70 HYDRIN SLAB(100072 2) SECTION IX - SPECIAL PRECAUTIONS -PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: AVOID DIRECT SKIN CONTACT. WORK IN WELL VENTILATED AREA AND AVOID INHALATION OF THE DUST AND VAPORS. RECOMMENDED SHELF LIFE OF ONE YEAR IF STORED IN A COOL, DRY ENVIRONMENT. -OTHER PRECAUTIONS: ETU IS A GOITROGEN, TERATOGEN, AND A CARCINOGEN. ETU ACCUMULATES IN THE THYROID GLAND. PREGNANT WOMEN ARE AT AN INCREASED RISK FROM EXPOSURE. IT IS RECOMMENDED THAT WOMEN OF CHILD BEARING AGE BE EXCLUDED WHERE INHALATION OR CONTACT WITH ETU IS POSSIBLE. PROPOSITION 65 WARNING: THIS PRODUCT CONTAINS ETHYLENE THIOUREA (CAS# 96-45-7) WHICH IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BOTH CANCER AND BIRTH DEFECTS AND OTHER REPRODUCTIVE HARM. 萨克罗大大大岛目的对方不在这种地名的大大西班里的名词名大大西哥的的名式大大西哥的的大大大西哥的的女子不是是国家的人人名英格兰的人名英格兰的 SECTION X - ADDITIONAL REGULATORY INFORMATION -SARA TITLE III SECTION 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right To Know Act of 1986 and of 40 CFR 372:

Chemical Name CAS# Chemical Name Weight
96-45-7 ETHYLENE THIOUREA (ETU) < 75.

96-45-7

Percent by

Page:	Material	Safety	Data		for:	ETÜ			N SLAB (10007			
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