|------| | MATERIAL SAFETY DATA SHEET | |------

| SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : POLYMER STEEL RG HARDENER

IDENTIFICATION NUMBER: PSRGHARD000B PREPARE / REVISED: 08/07/06

PRODUCT USE/CLASS : EPOXY HARDENER

SUPPLIER: MANUFACTURER: Dudick, Inc. Dudick, Inc.

1818 Miller Parkway
Streetsboro, Ohio 44241
Streetsboro, Ohio 44241

CHEM-TEL: 800-255-3924 CHEM-TEL: 800-255-3924

24 HOURS A DAY 24 HOURS A DAY

PREPARER: DUDICK, INC PHONE: 800-322-1970,

	SECTION 2 - COMPOSITION/INFORMATION (ON INGREDIENTS	
	CHEMICAL NAME	CAS NUMBER	WT/WT % LESS THAN
01	SILICON DIOXIDE (CRYSTALLINE)	14808-60-7	30.0 %
02	SIO2/AL2O3 ALLOY	66402-68-4	25.0 %
03	TRIETHYLENETETRAMINE	112-24-3	15.0 %
04	ALIPHATIC AMINES; MANNICH BASE	MIXTURE	10.0 %
05	PHENOL	108-95-2	5.0 %

			POSURE LIMITS			
	ACGI	H	OSHA		COMPANY	
ITEM	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	SKIN
01	.1mg/m3	NO INFO	.1mg/m3	NO INFO	NE	NO
02	10mg/m3	NO INFO	15mg/m3	NO INFO	NE	NO
03	NE	NE	NE	NE	NE	YES
04	5PPM	10PPM	5PPM	10PPM	NE	YES
05	19mg/m3	10PPM	19mg/m3	NO INFO.	NE	YES
02 03 04	10mg/m3 NE 5PPM	NO INFO NE 10PPM	15mg/m3 NE 5PPM	NO INFO NE 10PPM	NE NE NE	NO YES YES

(See Section 16 for abbreviation legend)

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SECTION 3 - HAZARDS IDENTIFICATION	
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*** EMERGENCY OVERVIEW ***: DANGER!---CAUSES BURNS. HARMFUL IF SWALLOWED. CAUTION!---CONTAINS RESPIRABLE SILICA. DO NOT GET IN EYES, ON SKIN, OR CLOTHING. DO NOT BREATH VAPORS OR MISTS.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: MAY CAUSE BLINDNESS.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: PROLONGED EXPOSURE MAY CAUSE SKIN IRRITATION AND BURNS. SEVERE SKIN IRRITANT.

EFFECTS OF OVEREXPOSURE - INHALATION: VAPORS AND MISTS MAY BE CORROSIVE TO THE RESPIRATORY TRACT.

EFFECTS OF OVEREXPOSURE - INGESTION: INGESTION MAY CAUSE BURNS TO THE MOUTH, THROAT, AND ESOPHAGUS.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: ALLERGIC REACTIONS MAY OCCUR IN SOME INDIVIDUALS. PREEXISTING SKIN AND EYE DISORDERS MAY BE AGGRAVATED BY THIS PRODUCT. TETA HAS BEEN FOUND TO PRODUCE KIDNEY AND LIVER DAMAGE AND BRAIN CONGESTION IN DERMALLY EXPOSED ANIMALS. TETA WAS FOUND TO BE A DIRECT ACTING MUTAGEN IN THE AMES TEST GIVING POSITIVE RESULTS WITH AND WITHOUT ACTIVATION. TETA WAS FETOTOXIC AND TERATOGENIC WHEN FED TO RATS AT 0.83% AND 1.67% OF DIET. WHEN APPLIED TO THE SKIN OF PREGNANT GUINEA PIGS THERE WAS A 90% ABORTION RATE OR DEATH OF FETUS WITH DEVELOPMENTAL ANOMALIES. THESE EFFECTS ARE BELIEVED TO BE SECONDARY TO COPPER DEFICIENCY RESULTING FROM THE CHELATING ACTIVITY OF TETA. THE SILICA CONTAINED IN THIS PRODUCT IS NOT IN A FREE STATE AND WOULD BE A HEALTH CONCERN ONLY IF GRINDING OR SANDING THE CURED PRODUCT. THE S102/AL203 BLEND CONTAINED IN THIS PRODUCT WOULD BE A HEALTH CONCERN ONLY IF SANDING OR GRINDING THE CURED MATERIAL.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT SKIN ABSORPTION INHALATION INGESTION EYE CONTACT

SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT: HOLD OPEN EYE LIDS AND FLUSH WITH COPIOUS AMOUNTS OF FLOWING WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.

FIRST AID - SKIN CONTACT: WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND WASH THOROUGHLY BEFORE REUSE.

FIRST AID - INHALATION: REMOVE VICTIM TO FRESH AIR. IF VICTIM IS NOT BREATHING, ARTIFICIAL RESPIRATION SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. SUPPLEMENTAL OXYGEN MAY BE INDICATED. CALL A PHYSICIAN.

FIRST AID - INGESTION: IF SWALLOWED, CALL A PHYSICIAN IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GIVE VICTIM PLENTY OF WATER TO DRINK IF CONSCIOUS.

	SECTION 5 - FIRE FIGHTING MEASURES
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FLASH POINT: 230 F (SETAFLASH CLOSED CUP)

LOWER EXPLOSIVE LIMIT: N.A. UPPER EXPLOSIVE LIMIT: N.A.

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EXTINGUISHING MEDIA: ALCOHOL FOAM CO2 DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: MAY PRODUCE TOXIC CARBON MONOXIDE AND NITROGEN OXIDES UPON COMBUSTION.

SPECIAL FIREFIGHTING PROCEDURES: EVACUATE AREA. WATER MAY BE INEFFECTIVE BUT MAY BE USED TO COOL FIRE EXPOSED CONTAINERS. FIGHT FIRE FROM A SAFE DISTANCE. WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: DIKE AREA TO CONTAIN SPILLAGE. ABSORB EXCESS WITH SAND, EARTH, OR VERMICULITE. SCRAPE UP AND PLACE IN SUITABLE CONTAINER FOR DISPOSAL. WEAR ALL APPROPRIATE SAFETY EQUIPMENT WHILE HANDLING SPILLS.

| SECTION 7 - HANDLING AND STORAGE

HANDLING: IF BODILY CONTACT OCCURS, REMOVE CONTAMINATED CLOTHING AT ONCE. AVOID CONTACT WITH EYES AND SKIN. AVOID BREATHING VAPORS. FOR INDUSTRIAL USE ONLY. WEAR APPROPRIATE SAFETY EQUIPMENT WHEN HANDLING.

STORAGE: DO NOT STORE NEAR INCOMPATIBLES. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.

| SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: GENERAL MECHANICAL VENTILATION MAY BE SUFFICIENT TO MINIMIZE VAPOR CONCENTRATIONS. LOCAL EXHAUST MAY BE REQUIRED.

RESPIRATORY PROTECTION: WEAR A PROPERLY FITTED NIOSH/MSHA APPROVED RESPIRATOR WHEN EXPOSURE TO MISTS OR VAPORS IS LIKELY.

SKIN PROTECTION: IMPERVIOUS RUBBER OR NEOPRENE TYPE. CONSULT GLOVE MANUFACTURER FOR RECOMMENDATIONS.

EYE PROTECTION: SAFETY GLASSES WITH SIDE SHIELDS RECOMMENDED AS MINIMUM PROTECTION. GOGGLES RECOMMENDED FOR INDIVIDUALS MIXING THE RESIN AND CATALYST.

OTHER PROTECTIVE EQUIPMENT: CLEAN, FULL BODY COVERING TO MINIMIZE SKIN CONTACT WITH MATERIAL. AN EYEWASH STATION AND SAFETY SHOWER IS RECOMMENDED NEAR WORK AREA.

HYGIENIC PRACTICES: SMOKING OR EATING IN THE WORK AREA SHOULD NOT BE

PERMITTED.	WASH	THOROUGHLY	AFTER	HANDLING	MATERIAL.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES
BOILING RANGE : 360 - 360 F VAPOR DENSITY : Is heavier than air
ODOR : AMMONIA ODOR THRESHOLD : NE
APPEARANCE : BLACK HEAVY PASTEEVAPORATION RATE: Is slower than Ether
SOLUBILITY IN H2O: PARTIAL
FREEZE POINT : NE SPECIFIC GRAVITY: 2.06
VAPOR PRESSURE : NE pH @ 0.0 % : NE
PHYSICAL STATE : PASTE VISCOSITY : NE COEFFICIENT OF WATER/OIL DISTRIBUTION: NE
COEFFICIENT OF WATER/OIL DISTRIBUTION. ME
(See Section 16 for abbreviation legend)
SECTION 10 - STABILITY AND REACTIVITY
CONDITIONS TO AVOID: HEAT, FLAME, CONTAMINANTS.
INCOMPATIBILITY: STRONG OXIDANTS. STRONG ACIDS.
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF NITROGEN. OXIDES OF CARBON. OTHER TOXIC ORGANIC SUBSTANCES MAY BE FORMED.
HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.
STABILITY: This product is stable under normal storage conditions.
SECTION 11 - TOXICOLOGICAL PROPERTIES
No product or component toxicological information is available.
SECTION 12 - ECOLOGICAL INFORMATION
ECOLOGICAL INFORMATION: DO NOT CONTAMINATE PONDS, STREAMS, OR UNDERGROUND WATER SUPPLY. PHENOL DEGRADES AT 99.5% IN 7 DAYS. TETA IS RESISTANT TO BIODEGREDATION IN BIOLOGICAL WASTE WATER TREATMENT PLANTS. IT COULD BE TOXIC TO THE BIOMASS IN A TREATMENT PLANT AND COULD BE TOXIC TO FISH.
SECTION 13 - DISPOSAL CONSIDERATIONS
DISPOSAL METHOD: FOLLOW ALL RELEVANT LOCAL, STATE, AND FEDERAL REGULATIONS. EMPTY DRUMS MAY CONTAIN RESIDUE OR FUMES WHICH ARE HARMFUL.
SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: CORROSIVE LIQUID N.O.S.

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SECTION 14 - TRANSPORTATION INFORMATION	į
DOT HAZARD CLASS: 8 HAZARD SUBCLASS:	NA
DOT UN/NA NUMBER: UN1760 PACKING GROUP: II RESP.	
SECTION 15 - REGULATORY INFORMATION	======================================
THE FOLLOWING COMPONENTS ARE NOT SUBJECT TO REPORTING IN SEC	CTION 2:
CHEMICAL NAME CAS NUMBER WT/WT	% IS LESS THAN
IRON OXIDE 1309-37-1	30.0 %
CELLULOSE WITH INERT CLAY MIXTURE	1.0 %
SILICON DIOXIDE (AMORPHOUS) 7631-86-9	1.0 %
U.S. FEDERAL REGULATIONS: AS FOLLOWS -	
OSHA: Hazardous by definition of Hazard Communication Standa 1910.1200)	ard (29 CFR
CERCLA - SARA HAZARD CATEGORY: This product has been reviewed according to the EPA 'Hazard promulgated under Sections 311 and 312 of the Superfund Amer Reauthorization Act of 1986 (SARA Title III) and is consider applicable definitions, to meet the following categories:	ndment and
IMMEDIATE HEALTH HAZARD CHRONIC HEALTH HAZARD	
SARA SECTION 313: This product contains the following substances subject to the requirements of Section 313 of Title III of the Superfund Ameauthorization Act of 1986 and 40 CFR Part 372:	
CHEMICAL NAME CAS NUMBER WT/WT PHENOL 108-95-2	% IS LESS THAN 5.0 %
TOXIC SUBSTANCES CONTROL ACT: The chemical substances in this product are on the TSCA Sect Inventory.	tion 8
This product contains the following chemical substances subgreporting requirements of TSCA 12(B) if exported from the Ur	

----- CHEMICAL NAME ----- CAS NUMBER No information is available.

U.S. STATE REGULATIONS: AS FOLLOWS -

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product:

IRON OXIDE	CHEMICAL	NAME		NUMBER -37-1				
					(Continued	on	Page	6)

SECTION 15 - REGULATORY INFORMATION	١.	Product: PSRGHARD000B PREPARE / REVISED: 08/07/06 Page 6
CAS NUMBER PENNSYLVANIA RIGHT-TO-KNOW: The following non-hazardous ingredients are present in the product at greater than 3%:	İ	SECTION 15 - REGULATORY INFORMATION
The following non-hazardous ingredients are present in the product at greater than 3%:	'	
CALIFORNIA PROPOSITION 65: WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:	T]	he following non-hazardous ingredients are present in the product at
WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:		
No Proposition 65 chemicals exist in this product. INTERNATIONAL REGULATIONS: AS FOLLOWS — CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings. CANADIAN WHMIS CLASS: E	W.	ARNING: The chemical(s) noted below and contained in this product, are nown to the state of California to cause cancer, birth defects or other
CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings. CANADIAN WHMIS CLASS: E		
Product Regulations except for use of the 16 headings. CANADIAN WHMIS CLASS: E	I	NTERNATIONAL REGULATIONS: AS FOLLOWS -
SECTION 16 - OTHER INFORMATION OTHER		
SECTION 16 - OTHER INFORMATION OTHER INFORMA	C	ANADIAN WHMIS CLASS: E
HMIS RATINGS - HEALTH: 3* FLAMMABILITY: 1 REACTIVITY: 0 VOLATILE ORGANIC COMPOUNDS (VOCS): 0.00 lbs/gal, 0 grams/ltr LEGEND: N.A Not Applicable, N.E Not Established, N.D Not Determined	į	SECTION 16 - OTHER INFORMATION
LEGEND: N.A Not Applicable, N.E Not Established, N.D Not Determined	H	MIS RATINGS - HEALTH: 3* FLAMMABILITY: 1 REACTIVITY: 0
	L	EGEND: N.A Not Applicable, N.E Not Established, N.D Not Determined

The information contained on this MSDS has been compiled from information obtained from raw material suppliers and is believed to be accurate. It is the responsibility of the user to comply with all Federal, State and Local Regulations.

<END OF MSDS>