

**MATERIAL SAFETY DATA SHEET**  
Conforms to 29CFR 1910.1200 (OSHA HAZARD COMMUNICATION STANDARD)

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INFORMATION: 985-449-0730

PRODUCT NAME: ENRUST  
DATE: OCTOBER 2005  
EMERGENCY NUMBER: CHEM-TEL  
1-800-255-3924

**SECTION I: PRODUCT IDENTIFICATION**

PRODUCT NAME: ENRUST  
CHEMICAL FAMILY: RUST CONVERTER  
FORMULA: MIXTURE

HMIS HAZARD IDENTIFICATION SYSTEM

HEALTH	1	4 - EXTREME
FLAMMABILITY	0	3 - HIGH
REACTIVITY	0	2 - MODERATE
		1 - SLIGHT
		0 - INSIGNIFICAN

**SECTION II: HAZARDOUS INGREDIENTS**

SUBSTANCE	Approx %	OSHA PEL	ACGIH TLV	CARCINOGENICITY			CAS NUMBER
				NPT	IARC	OSHA	
Tannic Acid	<3.00	10 ppm	10 ppm	Y	Y	N	1401-55-4
Oxalic Acid	<1.00	1 ppm	1 ppm	N	N	N	144-62-7
Ethylene Glycol	<5.00	50 ppm	50 ppm	N	N	N	107-21-1
2-(2-Ethoxyethox) ethanol	<5.00	N/A	N/A	N	N	N	111-90-0

**SECTION III: PHYSICAL DATA**

Boiling Point:	210 - 220 F	Specific Gravity:	1.040
Vapor Pressure:	N/D	% Volatile (volume %)	55 -65
Vapor Density (air = 1):	N/D	Evaporation Rate (water +1)	~1
Solubility in Water:	Soluble	pH:	1.5 - 2.0
Appearance & Odor:	White Milky liquid/ bland odor		

**SECTION IV: FIRE AND EXPLOSION HAZARD DATA**

Flash Point:	None	Flammable limits in air (volume %)	
(Test method):	Closed Cup	Upper:	N/A Lower: N/A
Extinguishing media:	Water, Foam, Carbon Dioxide, Dry Chemical		
Special Fire Fighting Procedure:	Cool drums in vicinity of fire with water fog. Fire fighters should be equipped with full protective Gear including self-contained breathing apparatus.		
UNUSUAL FIRE AND EXPLOSION HAZARD:	None		

PRODUCT NAME: ENRUST Rust Converter

### SECTION V: REACTIVITY DATA

Stability: STABLE Conditions to Avoid: NONE  
Incompatibility: Oxidizing Agents  
Hazardous polymerization: Will not occur  
Hazardous Decomposition Products: Thermal decomposition may produce oxides of carbon

### SECTION VI: HEALTH HAZARD DATA

Routes of Entry: Inhalation: X Eye Contact: X Skin Contact: X Ingestion: X  
Ingredients that are considered by OSHA, NTP, IARC, to be suspected human carcinogens: NONE

#### EFFECTS OF OVEREXPOSURE

EYES: Severe irritation, redness, tearing. Possible corneal injury. SKIN: Moderate to severe irritation, chapping and dermatitis with prolonged or repeated exposure. INGESTION: Irritation to mucous membranes, nausea, cramps, diarrhea. INHALATION: Irritation to respiratory tract, dizziness, headache.

#### EMERGENCY & FIRST AID PROCEDURES

Eyes: Flush eyes and under lids with plenty of cool water for at least 15 minutes. Call a physician immediately and continue flushing until medical attention is obtained. SKIN: Remove contaminated clothing and launder before reuse... Flush with plenty of cool water for at least 15 minutes. Obtain medical attention, if irritation persists. INGESTION: Contact physician or poison center immediately. Rinse mouth with water. Give person one to two glasses of water. Do not induce vomiting unless told to do so by physician or poison control center. Never give anything by mouth to an unconscious person. INHALATION: Remove to fresh air. Call physician if irritation persists.

### SECTION VII: SPILL OR LEAK PROTECTION

IF MATERIAL IS SPILLED OR RELEASED: Ventilate area. Contain spill. Soak up spilled material with inert absorbent material and place in a properly labeled closed container for proper disposal. WASTE DISPOSAL METHOD: Consult local environmental authorities.

### SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use with adequate ventilation  
VENTILATION: Local Exhaust  
PROTECTIVE GLOVES: Chemical Resistant Mechanical: Not Required  
OTHER PROTECTIVE EQUIPMENT: Protective Clothing/eye washes station Eye Protection: Chemical Goggles/Safety Glasses

### SECTION IX: SPECIAL PROTECTION

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: Store in a cool dry area, away from acids. Do not mix with any other cleaning chemicals. Rinse containers before discarding. Keep container tightly closed when not in use. OTHER PRECAUTIONS: Keep out of reach of children.

### SECTION X: REGULATORY INFORMATION

DOT PROPER SHIPPING NAME: N/A DOT CLASS: N/A DOT PACKAGING GROUP: N/A

USER RESPONSIBILITY: This bulletin cannot cover all possible situations which the user may experience during use. Each aspect of your operation should be examined to determine if or where, additional precautions may be necessary. All Health and Safety information contained in this bulletin should be provided to your employees and customers. It is your responsibility to use this information to develop appropriate work and practice guidelines and employee instructional programs for your operation.

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