MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910,1200)

HMIS HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

Health.... 3
Flammability.... 0
Reactivity.... 0
Protection.... C

A = Safety Glasses	**F** = **C** + Dust Mask	**4** = Extreme
B = **A** + Gloves	**G** = **B** + Respirator	**3** = High
C = **B** + Apron	**H** = **F** + Goggles	**2** = Moderate
D = **C** + Face Shield	**I** = **B** + Respirator	**1** = Slight
E = **B** + Dust Mask	**X** = Ask Supervisor	**0** = Insignificant

SECTION I - PRODUCT IDENTIFICATION

Product Code: 419 **Supersedes Date: May 9, 1997** **Section(s) Changed: II, IX, X** **Effective Date: May 14, 2001**

PRODUCT NAME: DE-IRON PLUS
GENERIC NAME: Rust Inhibiting Sour
DISTRIBUTORS NAME:
INFORMATION PHONE NUMBER: 314-771-6600

CHEMICAL FAMILY: Liquid Laundry Detergent
FORMULA: Proprietary Mixture
DISTRIBUTORS ADDRESS:

EMERGENCY PHONE NUMBER IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE OR ACCIDENT: CHEMTREC 800-424-9300

PROPER SHIPPING DESCRIPTION: > 1 Gal: Corrosive liquid, acidic, inorganic, n.o.s.,(Contains Phosphoric Acid), 8, UN3264, III LABEL: Corrosive
≤ 1Gal: Corrosive liquid, acidic, inorganic, n.o.s., (Contains phosphoric acid), 8, UN3264, III, ltd. qty LABEL: None

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS No.	Wt%	OSHA PEL	ACGIH TLV	OTHER
Phosphoric Acid	7664-38-2	<10	1 mg/m³	1 mg/m³	
Ammonium Hydrogen Fluoride	1341-49-7	<10	2.5 mg/m³	2.5 mg/m³	

The information & recommendations set forth herein are presented in good faith & believed to be current & reliable. The manufacturer makes no representation as to the completeness or accuracy thereof & supplies information upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to use. In no event will The manufacturer be responsible for any damage of any nature whatsoever resulting from the use of or reliance upon this information. No representation or warranty, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which it refers.

SECTION III - PHYSICAL/CHEMICAL DATA

Boiling Point (EF): 212
Vapor Pressure (mm Hg): 17
Vapor Density (Air=1): 0.62
Evaporation Rate: (Water=1): GT 1.00
Solubility in Water: Complete
Physical Description: Clear Thin Red Liquid

Specific Gravity: 1.08
Lbs/Gal Density: 9.0
pH Concentrate: 3.0
pH Use Dilution: 2.4

SECTION IV - FIRE & EXPLOSION HAZARD DATA

FLASH POINT (Method Used): None LIMITS: LEL: NA UEL: NA

EXTINGUISHING MEDIA: Water spray or fog, foam, dry chemical, carbon dioxide, alcohol foam, if product is involved.

SPECIAL FIRE FIGHTING PROCEDURES: Avoid exposure to fumes or vapors. Wear self-contained positive pressurized breathing apparatus MSHA/NIOSH Approved or equivalent to maintain TLV.

UNUSUAL FIRE & EXPLOSION HAZARD: May generate hydrogen gas in contact with some metals. Use water spray to cool adjacent fire exposed containers. Product will not burn but may splatter if temperature exceeds boiling point.

SECTION V - REACTIVITY DATA

Stability: Stable.
Hazardous Polymerization: Will not occur.
Incompatibility (Materials to Avoid): Strong oxidizing agents.
Hazardous Decomposition Products: Hydrogen Chloride: Hydrogen gas in contact with some metals; Formic Acid.

SECTION VI - STORAGE & HANDLING INFORMATION

KEEP OUT OF REACH OF CHILDREN. DANGER.
Do not contaminate water, food or feed. Avoid all contact. Store upright in original closed container.
Other Precautions: Do not get in eyes, on skin or on clothing. Remove & wash contaminated clothing before reuse.

SECTION VII - HEALTH HAZARDS AND FIRST AID

Carcinogenicity:	NTP?	IARC Monographs?	OSHA REGULATED?
NE	NE	NE	YES

EFFECTS OF OVEREXPOSURE:
SKIN: Severe burns
EYES: Severe burns
INHALATION: Burns
INGESTION: Severe burns

EMERGENCY FIRST AID PROCEDURES:
SKIN: Wash with soap & water for 15 minutes. See physician if irritation persists.
EYES: Flush with flowing water for 15 minutes & see physician.
INHALATION: Remove to fresh air. If breathing has stopped, apply suitable artificial respiration. Get medical help.
INGESTION: Give milk or water to dilute material; DO NOT induce vomiting. Avoid alcohol. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

Always maintain TLV

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Normal room ventilation
VENTILATION: Local exhaust preferred. Mechanical (general) at point of mist acceptable. Avoid breathing vapor or spray.
PROTECTIVE GLOVES: Acid proof.
EYE PROTECTION: Splash proof chemical goggles.
OTHER PROTECTIVE EQUIPMENT: Apron.
WORK/HYGIENIC PRACTICES: Practice good personal hygiene. Wash after handling. Shower at end of work period.

SECTION IX - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Neutralize with sodium bicarbonate. Mop up & flush to sewer with plenty of water. Floors may be slippery. Use care to avoid falls.
WASTE DISPOSAL METHOD: Dispose of in accordance with applicable Federal, State & Local regulations.

SECTION X - ADDITIONAL FEDERAL REGULATIONS

SARA TITLE III (EPCRA) NOTIFICATION: PHOSPHORIC ACID [Reportable under section 313 and section 6607 of the Pollution Prevention Act]
COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA) NOTIFICATION: PHOSPHORIC ACID, AMMONIUM HYDROGEN FLUORIDE
For more information, consult 40 CFR parts 302, 355, 370, 372, and 40 CFR part 68.

NE - Not Established **NA** - Not Applicable **GT** - Greater Than Manufactured by: **Intercon Chemical Company 1100 Central Industrial Drive, St. Louis, MO 63110**