

KOP-COAT, INC
 PROTECTION PRODUCTS
 5137 SOUTHWEST AVENUE
 ST. LOUIS
 MO 63110

EMERGENCIES
 HEALTH/SPILLS.....: 800-548-0489
 CHEMTREC ASSISTANCE: 800-424-9300
 CHEMTREC OUTSIDE US: 703-527-3887
 CANUTEC.....: 613-996-6666

KOP-COAT, INC
 PRODUCT INFORMATION: 412-227-2700
 OUTSIDE USA.....: 412-227-2700

 1 PRODUCT IDENTIFICATION

PRODUCT NAME: Iron FixT (TM) 250
 PRODUCT USE.: Additive for antispain chemicals
 APPEARANCE.: Dark amber liquid
 CAS NUMBER.: Mixture
 SYNONYMS....: None

REVISION...: 4
 DATE.....: 7/03/03
 MSDS NUMBER: 11503

 2 HAZARDOUS INGREDIENTS

<u>HAZARDOUS COMPONENT</u>	<u>REG AGENCY</u>	<u>PPM</u>	<u>NOTES</u>	<u>MG/M3</u>	<u>NOTES</u>
Proprietary organo phosphonic acids CAS NUMBER:PROPRIETARY- PERCENT BY WGT: 35 TO 40			(None established.)		
Phosphorous acid CAS NUMBER:13598-36-2 PERCENT BY WGT: 1 TO 5			(None established.)		
Hydrogen chloride CAS NUMBER:7647-01-0 PERCENT BY WGT: 1 TO 5	ACGIH CEIL NIOSH CEIL OSHA CEIL	5 5 5		7.5 7 7	
Phosphoric acid CAS NUMBER:7664-38-2 PERCENT BY WGT: 1 TO 5	ACGIH STEL ACGIH TWA NIOSH NIOSH STEL OSHA STEL OSHA TWA	- - - - - -		3 1 1 3 3 1	

 3 HAZARDS IDENTIFICATION

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EYE: CORROSIVE: Direct contact can cause severe eye damage, injury may be permanent.

SKIN: CORROSIVE: Contact with skin can cause severe irritation.

INHALATION: CORROSIVE: Inhalation of vapors or mists can cause irritation of mucous membranes. Exposure to excessive levels may cause central nervous system depression (dizziness, nausea) and may decrease the affinity of blood for oxygen (methemoglobinemia).

INGESTION: Ingestion will cause severe irritation.

Aggravates Medical Conditions: Anemia

4 FIRST AID MEASURES

EYE CONTACT: Flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get immediate medical attention. If physician not available, flush for additional 15 minutes, transport victim to medical care.

SKIN CONTACT: Wash with large amounts of running water, and soap if available, for several minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Wash clothing and decontaminate shoes before reuse.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

INGESTION: If swallowed, immediately give 3-4 glasses of water. DO NOT induce vomiting. If vomiting does occur, give fluids again. Get immediate medical attention. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, as well as oxygen and measures to support breathing manually or mechanically may be needed. If persistent, convulsions may be controlled by the cautious intravenous injection of a short-acting barbiturate drug.

5 FIRE FIGHTING MEASURES

FLASH POINT: > 200F/93C

AUTOIGNITION TEMPERATURE: No information found.

FLAMMABLE LIMITS (% by volume/air)

Lower Limit: Not applicable.

Upper Limit: Not applicable.

5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use foam, alcohol, carbon dioxide, dry chemical, water.

FIRE FIGHTING PROCEDURES: As in any fire, wear complete fire service protective equipment, including full-face MSHA/NIOSH approved or equivalent self-contained breathing apparatus. Cool fire-exposed containers with water spray.

FIRE AND EXPLOSION HAZARDS: Thermal decomposition may produce toxic fumes. Flammable and toxic phosphine gas may be produced if heated above 200 C.

6 SPILL AND LEAK PROCEDURES

DANGER! Corrosive Material. Floors may become slippery. Wear appropriate protective equipment and NIOSH/MSHA approved respirator where mist or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred).

SPILL: Dike and contain spilled liquid with sand or earth and transfer the liquid and solid separately to containers for recovery or disposal. Keep spills out of sewers and open bodies of water.

7 HANDLING AND STORAGE

HANDLING: Avoid breathing mists. Avoid contact with skin, eyes or clothing. Observe good personal hygiene practices and recommended procedures. Wash gloves before removing and hands thoroughly after handling.

STORAGE: Do not contaminate water, food or feed by storage. Keep in a closed, labeled container within a cool, dry area. Protect from physical damage. Keep containers closed when not in use.

OTHER: Not for use or storage in or around the home. Showering and clothing change recommended at the end of each shift.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: In processes where TLV may be exceeded, or mists and/or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.

RESPIRATORS: If ventilation does not maintain inhalation exposures below PEL(TLV), use MSHA/NIOSH approved, or equivalent, units as per current OSHA 29 CFR 1910.134/NIOSH 42 CFR 84. A respiratory protection program that meets OSHA 29 CFR 1910.134, ANSI Z88.2 and/or NIOSH 42 CFR 84 requirements must be followed whenever workplace conditions warrant a respirator's use. Organic vapor

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

cartridges or canisters may be used.

PERSONAL PROTECTIVE EQUIPMENT: Industrial safety glasses, at a minimum. Wear safety glasses with side shields (or goggles) and/or faceshield if splashing is possible. Skin protection, as required, chemical-resistant flexible-type gloves (heavy-duty neoprene or equal). Where contact is likely, wear resistant protective garments such as gloves, aprons, pants, coveralls, boots, etc.

9 PHYSICAL AND CHEMICAL PROPERTIES

Weight Per Gallon (lbs): 10.590 % VOL by Weight.: 59
Vapor Density.: Not determined Boiling Point...: Not determined
Vapor Pressure: Not determined Evaporation Rate: Not determined
pH.....: 1 Specific Gravity: 1.27 @ 20 C
Solubility In Water: Soluble Viscosity.....: Not determined
VOC Content.....: Not determined

10 STABILITY AND REACTIVITY DATA

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITY: Avoid strong oxidizers, strong bases and trimethylol alkanes.
HAZARDOUS DECOMPOSITION PRODUCT(S): Thermal decomposition may produce toxic organic vapors/fumes and oxides of carbon, nitrogen, phosphorus and phosphines.

11 TOXICOLOGICAL INFORMATION

Based upon information available for similar products, direct skin or eye contact can cause skin or eye damage and/or burns. Mist of product can cause irritation of mucous membranes.

12 ECOLOGICAL INFORMATION

Contact Kop-Coat for information.

13 DISPOSAL CONSIDERATIONS

Dispose of in compliance with all federal, state and local laws and regulations.

14 TRANSPORTATION INFORMATION

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DOT PROPER SHIPPING NAME: Corrosive liquid, aidic, organic, n.o.s., (Organo phosphonic acid)
DOT HAZARD CLASS: 8, PG III
LABEL: Corrosive liquid
DOT IDENTIFICATION NUMBER: UN3265

15 REGULATORY INFORMATION

SARA TITLE III SECTION 313 CHEMICALS

Hydrogen chloride

No other information available.

16 OTHER INFORMATION

NOTICE: While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Kop-Coat, Inc. makes no warranty with respect thereto and disclaims all liability from reliance thereon.

PREPARED BY: Manager of Health, Safety, and Environmental Affairs