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REMEL INC -- FERRIC CHLORIDE 10% (PHENYLALANINE DEAMINASE REAGENT)

6550-01-359-5094

============= Product Identification ==================

Product ID:FERRIC CHLORIDE 10% (PHENYLALANINE DEAMINASE REAGENT)

MSDS Date:07/12/1995

FSC:6550

NIIN:01-359-5094

Status Code:A

MSDS Number: CLLGN
=== Responsible Party ===
Company Name:REMEL INC

Address:12076 SANTA FE DRIVE

Box:14428

City:SHAWNEE MISSION

State:KS

ZIP:66215-3519

Country:US

Info Phone Num:913-888-0939/800-255-6730

Emergency Phone Num:800-447-3641 800-447-3635

Resp. Party Other MSDS Num.:PRODUCT NO. 21-218

CAGE:7V410

=== Contractor Identification ===

Company Name: REGIONAL MEDIA LABORATORIES

Address:12076 SANTA FE DRIVE

Box:City:LENEXA

State:KS

ZIP:66215-3594

Country:US

Phone:800-447-3641 (TECH) 800-447-363

CAGE:UO481

Company Name: REMEL

Address:12076 SANTA FE DR

Box:14428 City:LENEXA

State:KS ZIP:66215 Country:US

Phone:800-447-3641

CAGE:JO731 Company Name :REMEL INC

Address:12076 SANTA FE DRIVE

Box:14428

City:SHAWNEE MISSION

State:KS

ZIP:66215-3519 Country:US

Phone:913-888-0939/800-255-6730

CAGE:7V410

======= Composition/Information on Ingredients ========

Ingred Name: FERRIC CHLORIDE

CAS:10025-77-1 RTECS #:NO5425000

Fraction by Wt: 12.0% %WT

Ingred Name: HYDROCHLORIC ACID

CAS:7647-01-0

RTECS #:MW4025000 Fraction by Wt: 25.0% ML OSHA PEL:C7 MG/M3;C5 PPM ACGIH STEL:C7.5 MG/M3;C5 PPM

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred N

ame:DISTILLED WATER

CAS:7732-18-5 RTECS #:ZC0110000

Fraction by Wt: 975.0%ML

========= Hazards Identification ==============

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Health Hazards Acute and Chronic:DANGER. CORROSIVE, MAY CAUSE BURNS OR
IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AVOID BREATHING
VAPOR AND EYE/SKIN CONTACT. TRAGET ORGAN EFFECTS: HYDROCHLORIC
ACID-RESPIRATORY FUNCTIONS, SKIN DE RMATITIS.TARGET ORGANS EFFECTS:
HYDROCHLORIC

First Aid:INHALATION: REMOVE VICTIM TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. CALL PHYSICIAN. EYE/SKIN CONTACT: FLUSH IMMEDIATELY WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING. CALL PHYSICIAN. INGESTION: GIVE WATER. CALL PHYSICIAN IMMEDIATELY.

=======================================	Fire Fighting Measures	

Extinguishing Media: USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

Fire Fighting Procedures: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard: GIVES OFF TOXIC FUMES OF HYDROGEN CHLORIDE.

Accidental Release Measures	
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 Accidental Nelease Measures	

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT AS SPECIFIED . AVOID BREATHING VAPORS OR SKIN

CONTACT.APPARATUS CONTAIN SPILL,

NEUTRALIZE WITH SODA OR LIME, AND ABSORB WITH INERT MATERIAL. SCOOP UP AND PLACE IN APPROVED DO T CONTAINER. FLUSH AREA WITH EXCESS WATER.

Neutralizing Agent: SODA OR LIME

======= H	landling ar	nd Storage	
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Handling and Storage Precautions: STORE AT 2-8C. KEEP CONTAINER TIGHTLY CLOSED.

Other Precautions: DANGER CORROSIVE, MAY CAUSE BURNS OR IRRITATION TO SKIN, EYES OR RESPIRATORY TRACT.

====== Exposure

Controls/Personal Protection ======= Respiratory Protection: SELF-CONTAINED BREATHING APPARATUS OR MASK WITH ACTIVATED CARBON CARTRIDGES WHICH MEET NIOSH/MSHA APPROVAL. Ventilation: MECHANICAL EXHAUST. Protective Gloves: CHEMICAL RESISTANT GLOVES. Eye Protection: CHEMICAL SAFETY GOGGLES. Other Protective Equipment: FUME HOOD. Supplemental Safety and Health ========= Physical/Chemical Properties ============ HCC:C1 Boiling Pt:=319.C, 606.2F B.P. Text:230F(HCL) Melt/Freez e Pt:=282.C, 539.6F M.P/F.P Text:-27C (HCL) Vapor Pres:1MM@194C. 4 (HCL) Vapor Density:2.804@110C Spec Gravity: N/P(FCL), 1.19 (HCL) Evaporation Rate & DATA N/P. / 1(HCL) Solubility in Water:YES. / COMPLETE Appearance and Odor:FERRIC CHLORIDE:BLACK/BROWN SOLID. HCL: CLEAR **PUNGENT ODOR** Percent Volatiles by Volume: 100 WT(HCL) ======== Stability and Reactivity Data =========== Stability Indicator/Materials to Avoid:YES COMMON METALS, CYANIDES, ALKALIS, AND STRO NG OXIDIZERS. FORMS EXPLOSIVE MIXTURES WITH SODIUM AND POTASSIUM. Stability Condition to Avoid: METALS, CYANIDES AND ALKALIS.

Hazardous Decomposition Products: HYDROGEN CHLORIDE GAS AND HYDROGEN FORMED UPON CORROSION WITH METALS; VERY FLAMMABLE.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

======= Disposal Considerations ============

Waste Disposal Methods: ENSURE COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS OR CONTACT AN APPROVED AND LICENSED

DISPOSAL
AGENCY

=========== Other Information ===============

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