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REMEL INC -- FERRIC CHLORIDE 10% (PHENYLALANINE DEAMINASE REAGENT) 6550-01-359-5094 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** 

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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

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

ACID-RESPIRATORY FUNCTIONS, SKIN DERMATITS. Explanation of Carcinogenicity:HYDROCHLORIC ACID-IARC; NOT CLASSIFIABLE AS HUMAN CARCINOGEN (GROUP 3). HUMAN AND ANIMAL EVIDENCE IS INADEQUATE.
Effects of Overexposure:DANGER. CORROSIVE, MAY CAUSE BURNS OR IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AVOID BREATHING VAPOR AND EYE/SKIN CONTACT.TARGET ORGANS EFFECTS: HYDROCHLORIC ACID-RESPIRATORY FUNCTIONS, SKIN DE RMATITS.
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXIST ING EYE, SKIN OR RESPIRATORY DISORDERS MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS SUBSTANCE.
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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.
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<ul> <li>Extinguishing Media:USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.</li> <li>Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE EQUIPMENT.</li> <li>Unusual Fire/Explosion Hazard:GIVES OFF TOXIC FUMES OF HYDROGEN CHLORIDE.</li> </ul>
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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
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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

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 & amp; Reference: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 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.

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

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