Product ID:3535, HEMATOXYLIN STAIN, GILL 1 MSDS Date:05/01/1998 FSC:6550 NIIN:01-087-9802 Status Code:A MSDS Number: CKKXW === Responsible Party === Company Name: RICCA CHEMICAL COMPANY Box:13090 City:ARLINGTON State:TX ZIP:76013 Country:US Info Phone Num:817-461-5601 **Emergency Phone Num** :817-461-5601 CAGE:TO632 === Contractor Identification === Company Name: RICCA CHEMICAL COMPANY Address:448 W FORK DR Box:13090 City:ARLINGTON State:TX ZIP:76013 Country:US Phone:817-461-5601 CAGE:0V553 Company Name: RICCA CHEMICAL COMPANY Address:Box:13090 City:ARLINGTON State:TX ZIP:76013 Country:US Phone:817-461-5601 CAGE:TO632

Ingred Name:HEMATOXYLIN CAS:517-28-2 RTECS #:MH7875000 Fraction by Wt: 2-6% GM/L

Ingred Name:SODI

UM IODATE CAS:7681-55-2 RTECS #:NN1400000 Fraction by Wt: 0.2-.6%GM/L

Ingred Name:ALUMINUM SULFATE (RESPONSIBLE PARTY GAVE CAS # 16828-11-8 WHICH IS FOR ALUMINUM SULFATE HEXADECAHYDRATE) CAS:10043-01-3 RTECS #:BD1700000 Fraction by Wt: 18-53% MG/L EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:ETHYLENE GLYCOL CAS:107-21-1 RTECS #:KW2975000 Fraction by Wt: 250% ML/L ACGIH STEL:C127 MG/M3;C50 PPM EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:ACETIC ACID CAS:64-19-7 RTECS #:AF1225000

Fraction by Wt: 20-60% ML/L OSHA PEL:25 MG/M3;10 PPM ACGIH TLV:25 MG/M3;10 PPM ACGIH STEL:37 MG/M3;15 PPM EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 Fraction by Wt: 0.6-0.7%L/L

LD50 LC50 Mixture:NONE GIVEN FOR PRODUCT AS WHOLE Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:UNKNOWN IARC:NO OSHA:NO Health Hazards Acute and Chronic:T ARGET ORGANS: RESPIRATORY SYSTEM,

SKIN, EYES, TEETH, CENTRAL NERVOUS SYSTEM, KIDNEY. LD50 ORAL, RAT: ETHYLENE GLYCOL: 8450 MG/KG; ACETIC ACID: 3310 MG/KG. IRRITATION OF NOSE AND THROAT, CHRONIC BRONC HITIS, HEADACHE, ABDOMINAL DISCOMFORT, NAUSEA, VOMITING, DIZZINESS, BLURRING VISION, SIGNS OF CENTRAL NERVOUS SYSTEM INVOLVEMENT. LIVER DAMAGE,

Explanation of Carcinogenicity:NTP: ETHYLENE GLYCOL IS UNDERGOING STUDY AS A CARCINOGEN.

Effects of Overexposure:IRRITATION OF NOSE

AND THROAT, CHRONIC

BRONCHITIS, HEADACHE, ABDOMINAL DISCOMFORT, NAUSEA, VOMITING, DIZZINESS, BLURRING VISION, SIGNS OF CENTRAL NERVOUS SYSTEM INVOLVEMENT. LIVER DAMAGE,

Medical Cond Aggravated by Exposure:CHRONIC RESPIRATORY DISEASE. PRE-EXISTING EYE PROBLEMS. PRE-EXISTING SKIN DISORDERS. LIVER OR KIDNEY DISEASE.

First Aid:IN ALL CASES SEEK QUALIFIED EVALUATION. EYE CONTACT: IRRIGATE IMMEDIATELY WITH L

ARGE QUANTITIES OF RUNNING WATER. SKIN CONTACT: WATER FLUSH IMMEDIATELY. REMOVE ANY CONTAMINATED CLOTHING. INHALATION: R EMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NECESSARY. INGESTION: DILUTE IMMMEDIATELY WITH WATER OR MILK. INDUCE VOMITING. GET MEDICAL HELP.

Extinguishing Media:ABC DRY CHEMICAL, CARBON DIOXIDE (CO2), WATER. Fire Fighting Procedures:FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHIG

APPARATUS.

Unusual Fire/Explosion Hazard:N/D.

Spill Release Procedures: FLUSH WITH LARGE QUANTITIES OF WATER. Neutralizing Agent: NO DATA PROVIDED BY RESPONSIBLE PARTY

Handling and Storage Precautions:PROTECT FROM PHYSICAL DAMAGE, ELEVATED TEMPERATURES. STORE AWAY FROM INCOMPATIBLE MATERIALS. Other Precautions:NO DATA PROVIDED BY RESPONSIBLE PARTY

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====== Exposure Controls/Personal Protection ==========

Respiratory Protection:AT AMBIENT TEMPERATURES NORMAL ROOM VENTILATION IS ADEQUATE. Ventilation:AT AMBIENT TEMPERATURES NORMAL ROOM VENTILATION IS ADEQUATE. Protective Gloves:RUBBER. Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES. Other Protective Equipment:LAB COAT OR LAB APRON. Work Hygienic Practices:WASH HANDS AFTER HANDLING THIS OR ANY OTHER CHEMICAL BEFORE EATING, DRINKING OR SMOKING. Supplemental Safety and Health N/A=NOT APPLICABLE. N/D=NOT DETERMINED.

HCC:N1 Boiling Pt:=100.C, 212.F Melt/Freeze Pt:=0.C, 32.F Spec Gravity:1 Solubility in Water:INFINITE Appearance and Odor:DARK PURPLE LIQUID. SLIGHT ACETIC ACID ODOR.

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS, SULFURIC ACID, PERCHLORIC ACID.
Stability Condition to Avoid:STABLE UNDE
R NORMAL CONDITIONS OF USE AND STORAGE.
Hazardous Decomposition Products:NO DATA PROVIDED BY RESPONSIBLE PARTY
Conditions to Avoid Polymerization:HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

Toxicological Information:NO DATA PROVIDED BY RESPONSIBLE PARTY

Ecological:NO DATA PROVIDED BY RESPONSIBLE PARTY

===== Disposal Considerations ====

Waste Disposal Methods: INCINERATE.

Transport Information:NO DATA PROVIDED BY RESPONSIBLE PARTY

SARA Title III Information:ETHYLENE GLYCOL, CAS # 107-21-1 IS SUBJECT TO REPORTING STANDARDS OF SECTION 313 OF SARA TITLE III. Federal Regulatory Information:NO DATA PROVIDED BY RESPONSIBLE PARTY State Regulatory Information:NO DATA PROVIDED BY RESPONSIBLE PARTY.

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