

RICCA CHEMICAL COMPANY -- 3535, HEMATOXYLIN STAIN, GILL 1 -- 6550-01-087-9802

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

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

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

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 HEXADECALHYDRATE)

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

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

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 Measures =====

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 IMMEDIATELY WITH WATER OR MILK.
INDUCE VOMITING. GET MEDICAL HELP.

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

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.

===== Accidental Release Measures =====

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

===== Handling and Storage =====

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

=====

===== 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.

===== Physical/Chemical Properties =====

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 and Reactivity Data =====

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 =====

Toxicological Information:NO DATA PROVIDED BY RESPONSIBLE PARTY

===== Ecological Information =====

Ecological:NO DATA PROVIDED BY RESPONSIBLE PARTY

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

=====

Waste Disposal Methods:INCINERATE.

===== MSDS Transport Information =====

Transport Information:NO DATA PROVIDED BY RESPONSIBLE PARTY

===== Regulatory Information =====

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.

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

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.