

SHANDON INC DBA SHANDON LIPSHAW -- GILL 1 HAEMATOXYLIN-GILL 2 HAEMATOXYLIN-GILL 3
HAEMATOXYLIN -- 6550-01-087-9802

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

Product ID:GILL 1 HAEMATOXYLIN-GILL 2 HAEMATOXYLIN-GILL 3 HAEMATOXYLIN

MSDS Date:12/02/1997

FSC:6550

NIIN:01-087-9802

Status Code:A

MSDS Number: CLLPZ

=== Responsible Party ===

Company Name:SHANDON INC DBA SHANDON LIPSHAW

Address:171 INDUSTRY DRIVE
C

City:PITTSBURGH

State:PA

ZIP:15275

Country:US

Info Phone Num:412-788-1133 INFO 800-245-6212

Emergency Phone Num:813-979-0626 CHEM-TEL

Resp. Party Other MSDS Num.:230029 REV. 2

CAGE:17602

=== Contractor Identification ===

Company Name:SHANDON INC DBA SHANDON LIPSHAW

Address:171 INDUSTRY DRIVE

Box:City:PITTSBURGH

State:PA

ZIP:15275

Country:US

Phone:412-788-1133 INFO 800-245-6212

CAGE:17602

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

Ingred Name:ETHYLENE GLYCOL

CAS:107-21-

1

RTECS #:KW2975000

Minumum % Wt:20.

Maxumum % Wt:25.

Other REC Limits:10 MG/M3

ACGIH STEL:C127 MG/M3;C50 PPM

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:ALUMINUM SULPHATE

CAS:10043-01-3

RTECS #:BD1700000

Minumum % Wt:1.

Maxumum % Wt:10.

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:HAEMATOXYLIN

CAS:517-28-2

RTECS #:MH7875000

< Wt:1.

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

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

LD50 LC50 Mixture:NO DATA PROVIDED BY RESPONSIBLE PARTY.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Health Hazards Acute and Chronic:ACUTE: EYES: IRRITATES THE EYES. SKIN:

MAY GIVE IRRITATION WITH REDNESS & PAIN. INHALATION: INHALATION OF VAPORS MAY IRRITATE MUCOUS MEMBRANES & INDUCE COUGH.

INGESTION:

IRRITATION OF THE GASTROINTESTINAL TRACT. LONG TERM (CHRONIC): PROLONGED OR FREQUENT EXPOSURE TO VAPORS MAY RESULT IN DAMAGE TO LIVER, KIDNEYS, BLOOD OR CENTRAL NERVOUS SYSTEM (BRAIN DAMAGE). HAEMATOXYLIN HAS SHOWN A CARCINOGENIC EFFECT IN EXPERIMENTAL ANIMALS. ALUMINUM SULPHATE HAS SHOWN MUTAGENIC & REPRODUCTIVE EFFECTS IN RATS & MICE

Explanation of Carcinogenicity:HAEMATOXYLIN HAS SHOWN A CARCINOGENIC EFFECT IN EXPERIMENTAL ANIMALS

Effects of Overexposure:

ACUTE: EYES: IRRITATES THE EYES. SKIN: MAY GIVE

IRRITATION WITH REDNESS & PAIN. INHALATION: INHALATION OF VAPORS MAY IRRITATE MUCOUS MEMBRANES & INDUCE COUGH. INGESTION: IRRITATION OF THE GASTROINTESTINAL TRACT. LONG TERM (CHRONIC): PROLONGED OR FREQUENT EXPOSURE TO VAPORS MAY RESULT IN DAMAGE TO LIVER, KIDNEYS, BLOOD OR CENTRAL NERVOUS SYSTEM (BRAIN DAMAGE). HAEMATOXYLIN HAS SHOWN A CARCINOGENIC EFFECT IN EXPERIMENTAL ANIMALS. ALUMINUM SULPHATE HAS SHOWN MUTAGENIC & REPRODUCTIVE EFFECTS IN RATS & MICE

IC & REPRODUCTIVE EFFECTS IN RATS & MICE

Medical Condition Aggravated by Exposure:NO DATA PROVIDED BY RESPONSIBLE PARTY.

===== First Aid Measures =====

First Aid:EYE: FLUSH WITH WATER OR PHYSIOLOGICAL SALT WATER FOR 15 MINS. REMEMBER TO REMOVE CONTACT LENSES. SKIN: REMOVE CONTAMINATED CLOTHING & WASH WITH WATER & SOAP. INHALATION: REMOVE TO FRESH AIR. KEEP AT REST. ADMINISTER OXYGEN OR ARTIFICIAL RESPIRATION AS NEEDED. INGESTION: RINSE MOUTH

H & DRINK PLENTY WATER. KEEP UNDER
SURVEILLANCE. GENERAL: IF ANY SYMPTOMS OCCUR: SEEK MEDICAL ADVICE.
SHOW THIS SAFETY DATA SHEET TO A PHYSICIAN OR EMERGENCY WARD.

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

Extinguishing Media:USE CARBON DIOXIDE, DRY CHEMICAL, ALCOHOL FOAM OR
WATER FOG.

Fire Fighting Procedures:WHEN EXTINGUISHING FIRES USE BREATHING
APPARATUS WITH AN INDEPENDENT SOURCE OF AIR.

Unusual Fire/Explosion Hazard:THE PRODUCT MAY FORM HAZARDOUS

DECOMPOSITION PRODUCT SUCH AS IODINE, OXIDES OF CARBON, SULPHUR,
SODIUM & ALUMINUM. REMOVE CONTAINERS IF POSSIBLE

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

Spill Release Procedures:PROVIDE FOR SUFFICIENT VENTILATION/RESPIRATORY
PROTECTION. DO NOT EMPTY INTO DRAINS. IF THE PRODUCT CONTAMINATES
LAKES, RIVERS OR SEWAGES, INFORM APPROPRIATE AUTHORITIES IN
ACCORDANCE WITH LOCAL REGULATIONS. ABSORB SPILLED LIQUID & PLACE
SPILLAGE IN A PLASTIC C

ONTAINER.

Neutralizing Agent:NO DATA PROVIDED BY RESPONSIBLE PARTY.

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

Handling and Storage Precautions:STORE AT ROOM TEMPERATURE. KEEP
CONTAINER CLOSED WHEN NOT IN USE. DO NOT STORE IN DIRECT SUNLIGHT.

Other Precautions:NO DATA PROVIDED BY RESPONSIBLE PARTY.

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

Respiratory Protection:USE MASK WITH A GAS/PARTICLE FILTER: A2/P2 SL
WHEN RISK OF INHALING VAPORS.

Ventilation:PROVIDE ADEQUATE VENTILATION.

Protective Gloves:USE GLOVES OF BUTYL RUBBER OR NEOPRENE

Eye Protection:WEAR SAFETY GOGGLES.

Other Protective Equipment:RUBBER APRON IS RECOMMENDED. SAFETY SHOWER
SHOULD BE AVAILABLE IN LOCAL AREA.

Work Hygienic Practices:AVOID BREATHING OF VAPORS & CONTACT WITH SKIN &
EYES.

Supplemental Safety and Health

NO DATA PROVIDED BY RESPONSIBLE PARTY.

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

HCC:T6

Boiling Pt:B.P. Text:1

23.9 TO 133.9 DEG C

Vapor Density:> 1

Spec Gravity:1.033-1.054

pH:ACIDIC

Solubility in Water:COMPLETE

Appearance and Odor:DARK PURPLE-RED LIQUID, FAINT VINEGAR ODOR

===== Stability and Reactivity Data =====

STRONG OXIDIZING AGENTS, ALKALIS OR ACIDS CAN ALTER THE STAINING CHARACTERISTICS OF THE SOLUTIONS.

Stability Condition to Avoid:NO DATA PROVIDED BY RESPONSIBLE PARTY.

Hazardous Decomposition Products:COMBUSTION MAY PRODUCE IODINE, OXIDES OF CARBON, SULPHUR, SODIUM & ALUMINUM

Conditions to Avoid Polymerization:WILL NOT OCCUR

===== Toxicological Information =====

Toxicological Information:ACUTE TOXICITY: IRRITATES THE EYES. SKIN: MAY GIVE IRRITATION WITH REDNESS AND PAIN. INHALATION: INHALATION OF VAPORS MAY IRRITATE MUCOUS MEMBRANES AND INDUCE COUGH. INGESTION: IRRITATION TO THE GASTR OINTESTINAL TRACR. LONG TERM TOXICITY; PROLONGED OR FREQUENT EXPOSURE TO VAPORS MAY RESULT IN DAMAGE TO LIVER, KIDN EYS, BLOOD OR CENTRAL NERVOUS SYSTEM (BRAIN DAMAGE). HAEMATOYLIN HAS SHOWN A CARCINOGENIC EFFECT IN EXPERIMENTAL ANIMALS. ALUMINIUM SULPHATE HAS SHOWN MUTAGENIC AND REPRODUCTIVE EFFECTS IN RATS AND MICE.

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

Ecological:DO NOT EMPTY INTO WATERS OR DRAINS. ECO-TOXICOLOGIC DATA FOR ALUMINUM SULPHATE; DAPHNIA MAGNA: EC50=59.6 MG/L (ALUMINUM 48 HOURS, IMMOBILITY).TUBIFEX TUBIFEX;EC50=69.8MG/L (ALUMINUM 24 HOUR S).EC50=55. 9 MG/L(ALUMINUM 48 HOURS).EC50=50.2 MG/L (ALUMINUM 96 HOURS)

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

Waste Disposal Methods:DISPOSAL SHOULD BE ACCORDING TO LOCAL, STATE OR NATIONAL LEGISLATION. DISPOSE OF THROUGH AUTHORITY FACILITIES OR PASS TO CHEMICAL DISPOSAL COMPANY

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

Transport Information:THIS PRODUCT IS NOT CONSIDERED HAZARDOUS ACCORDING TO ANY TRANSPORTATION REGUL

ATIONS.

===== 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 respo
nsibility for the suitability of this information to their
particular situation.