

MSDS

HEMATOXYLIN STAINS, GILL 1, GILL 2, GILL 3

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Catalog Number: 3535, 3536, 3537	
Product Identity: HEMATOXYLIN STAINS, GILL 1, GILL 2, GILL 3	
Manufacturer's Name: RICCA CHEMICAL COMPANY LLC	Emergency Contact(24 hr) -- CHEMTREC® Domestic: 800-424-9300 International: 703-527-3887
CAGE Code: 0V553	
Address: 448 West Fork Dr Arlington, TX 76012	Telephone Number For Information: 817-461-5601
Date Prepared: 7/28/99	Revision: 3 Last Revised: 05/25/2006 Date Printed: 08/31/2006 12:15:50 pm

Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Ethylene Glycol	107-21-1	24 - 26	Not Available C 100 mg/m3	Not Available Not Available
Hematoxylin	517-28-2	< 1	Not Available Not Available	Not Available Not Available
Acetic Acid	64-19-7	2 - 6	10 ppm 25 mg/m3	10 ppm 25 mg/m3
Sodium Iodate	7681-55-2	< 0.1	Not Available Not Available	Not Available Not Available
Water, Deionized	7732-18-5	Balance	Not Available Not Available	Not Available Not Available
Aluminum Sulfate Hydrate	7784-31-8	1.8 -5.3	Not Available 2 mg/m3	Not Available Not Available

Section 3: Hazard Identification

Emergency Overview: May cause irritation to the eyes. May be harmful if swallowed. Wash areas of contact with plenty of water. If ingested, dilute with water, induce vomiting then call a physician.

Target Organs: eyes, skin, respiratory system, teeth, central nervous system, cardiovascular system, liver, kidneys.

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Eye Contact: May cause slight irritation.

Inhalation: May cause irritation.

Skin Contact: May cause irritation, allergic reaction and rash.

Ingestion: May cause nausea and vomiting. Early symptoms mimic alcohol inebriation and are followed by nausea, vomiting, abdominal pain, weakness, muscle tenderness, respiratory failure, convulsions, cardiovascular collapse, pulmonary edema, hypocalcemic tetany and severe metabolic acidosis.

Chronic Effects/Carcinogenicity: Chronic exposure may lead to kidney and liver damage.

IARC - No.

NTP - No.

OSHA - No.

Reproductive Information: Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Acetic Acid. Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Ethylene Glycol.

Teratology (Birth Defect) Information: Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Acetic Acid. Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Aluminum Sulfate Hydrate. Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Ethylene Glycol.

Section 4: First Aid Measures - In all cases, seek qualified evaluation.

Eye Contact: Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Skin Contact: Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops.

Ingestion: Dilute immediately with water or milk. Induce vomiting. Call a physician.

Section 5: Fire Fighting Measures

Flash Point: Not Available.

Method Used: Not Available.

LFL: Not Available.

UFL: Not Available.

Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Fire & Explosion Hazards: Not considered to be a fire or explosion hazard.

Fire Fighting Instructions: Poisonous gases are produced in fire. Continue to cool containers with water after fire is extinguished. For larger fires, use unmanned hose apparatus, if possible. Consider down wind conditions. Do not release runoff from fire-fighting measures to sewers or waterways.

Fire Fighting Equipment: Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Section 6: Accidental Release Measures

Absorb with suitable material and dispose of in accordance with local regulations.

Section 7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Store at controlled room temperature, 15 - 30°C.

Safety Storage Code: General

Section 8: Exposure Control/Personal Protection

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

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Section 9: Physical and Chemical Properties

Appearance: Dark purple liquid
Odor: very weak vinegar odor
Solubility in Water: Infinite
Specific Gravity: Approximately 1

pH: 2 - 4
Boiling Point(°C): Approximately 100
Melting Point(°C): Approximately 0
Vapor Pressure: Not Applicable.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.
Incompatibility: Strong oxidizers (ex. Potassium Permanganate, Chromium Trioxide), Sulfuric Acid, Perchloric Acid.
Hazardous Decomposition Products: Burning may produce oxides of Carbon.
Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

LD50, Oral, Rat: (Ethylene Glycol) 4700 mg/kg, (Acetic Acid) 3310 mg/kg, (Aluminum Sulfate) > 9 gm/kg, details of toxic effects not reported other than lethal dose value.

Section 12. Ecological Information

Ecotoxicological Information: Ethylene Glycol has moderate acute and chronic toxicity to aquatic life. It has caused chromosomal damage to agricultural crops.
Chemical Fate Information: Ethylene Glycol is slightly persistent in water, with a half-life of between 2 to 20 days. This material is not expected to significantly bioaccumulate.

Section 13. Disposal Considerations

Absorb with suitable inert material (vermiculite, dry sand, earth) and place in a chemical waste container for proper disposal in an approved waste disposal facility for incineration in a chemical incinerator equipped with scrubber and afterburner. Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

Part Numbers:

This product is not regulated.

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA Status: These items meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

TSCA Status: All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

Section 302 Extremely Hazardous Substances: Not Applicable.

Section 311/312 Hazardous Categories: Acute, Chronic: Yes Fire, Pressure, Reactivity: No

Section 313 Toxic Chemicals: Not Applicable.

California: None Reported.

Pennsylvania: Acetic Acid is listed as an Environmental Hazard on the state's Hazardous Substances List. Aluminum Sulfate Hydrate is listed as an Environmental Hazard on the state's Hazardous Substances List. Ethylene Glycol is listed as an Environmental Hazard on the state's Hazardous Substances List.

RCRA Status: Not Applicable.

CERCLA Reportable Quantity: Acetic Acid - 5,000 pounds. Aluminum Sulfate Hydrate - 5000 pounds. Ethylene Glycol - 5,000 pounds.

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WHMIS: Not Applicable.

Section 16. Other Information

NFPA Ratings:

Health: 1 Flammability: 1 Reactivity: 0 Special Notice Key:None

HMIS Ratings:

Health: 1 Flammability: 1 Reactivity: 0 Protective Equipment:B (Protective Eyewear, Gloves)

Rev 1, 9-22-2000: Reformatted from WordPerfect® to Microsoft Word®; (Section 1) Revised emergency telephone number to CHEMTREC® 800-424-9300; (Section 2) revised exposure limits for Ethylene Glycol to ppm; (Section 3) added Ethylene Glycol to reproductive effects citation, added Aluminum Sulfate to mutation data citation; (Section 11) added Aluminum Sulfate information; (Section 15) added hazardous categories; (Section 15) added TSCA hydrate statement.

Rev 2, 10-09-2001: Reformatted to electronic data format.

Rev 3, 05-25-2006: Reviewed and approved for distribution.

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.