

Safety Data Sheet

Mayer's Acid Hemalum

Section 1 - Chemical Product and Company Identification

SDS Name: Mayer's Acid Hemalum

Catalog Numbers: SO-368, E-300-3, E-311-2, L-756-1B, N-853-4

Company Identification: Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.
10 ELECTRONICS AVENUE
DANVERS, MA 01923

For information, call: 978-739-4883

Emergency Number: 800-424-9300

For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications

H315-Skin corrosion/irritation: 2

H319-Serious eye damage/eye irritation: 2A

4.9% of the mixture consists of ingredients of unknown acute oral toxicity.

5.4% of the mixture consists of ingredients of unknown acute inhalation toxicity.

Pictograms or Hazard symbols and Hazard statement(s):



Signal Word: Warning

Hazard Statements:

H315-Causes skin irritation

H319-Causes serious eye irritation

Precautionary Statements:

P264-Wash thoroughly after handling.

P280-Wear protective gloves/eye protection/face protection.

P302+P352-If on skin: Wash with plenty of soap and water.
P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313-If skin irritation occurs: Get medical advice/attention.
P337+P313-If eye irritation persists: Get medical advice/attention.
P362+P364-Take off contaminated clothing and wash it before reuse.

Section 3 - Composition, Information on Ingredients

CAS #	Chemical Name	Percent
7784-26-1	Ammonium Aluminum Sulfate Dodecahydrate	4.9 w/v
517-28-2	Hematoxylin	0.5 w/w
7681-55-2	Sodium Iodate	0.02 w/v
56-81-5	Glycerin	29 v/v
64-19-7	Glacial Acetic Acid	2.0 v/v
7732-18-5	Water	Balance

Section 4 - First Aid Measures

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek medical attention.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical attention.

Oral Exposure: If swallowed, seek immediate medical advice. Do not induce vomiting. Rinse mouth with water.

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: Use dry chemical, carbon dioxide, dry sand, water spray, or alcohol-resistant foam.

Hazardous Combustion Products: Carbon oxides, nitrogen oxides, sulfur oxides, aluminum oxides, sodium oxides, hydrogen iodide, irritating and toxic fumes and gases.

Flash Point: Not available

Autoignition Temperature: Not available

Explosion Limits, Lower: Not available

Upper: Not available

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):

Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation.

Methods for Cleaning up: Absorb with sand, earth, or vermiculite. Carefully sweep up and containerize for proper disposal. Do not release to the environment. Do not release to drains.

Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Wash thoroughly after handling. Ensure adequate ventilation. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Store in a tightly closed container in a cool, dry, and well-ventilated area. Light sensitive. Keep away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Exposure Limits:

Chemical Name	ACGIH - TLV	NIOSH - IDLH	OSHA - Final PELs
Ammonium Aluminum Sulfate Dodecahydrate CAS#7784-26-1	Not listed	2 mg/m3 TWA	2 mg/m3 TWA (vacated)
Hematoxylin CAS#517-28-2	Not listed	Not listed	Not listed
Sodium Iodate CAS#7681-55-2	Not listed	Not listed	Not listed
Glycerin CAS#56-81-5	Not listed	Not listed	5 mg/m3 TWA 15 mg/m3 TWA
Glacial Acetic Acid CAS#64-19-7	10 ppm TWA 15 ppm STEL	10 ppm TWA 25 mg/m3 TWA 15 ppm STEL 37 mg/m3 STEL 50 ppm IDLH	10 ppm TWA 25 mg/m3 TWA

OSHA Vacated PELs: Ammonium Aluminum Sulfate Dodecahydrate: 2 mg/m3 TWA
Glycerin: 5 mg/m3 TWA; 10 mg/m3 TWA
Glacial Acetic Acid: 10 ppm TWA; 25 mg/m3 TWA

Section 9 - Physical and Chemical Properties
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Physical State: Liquid
Appearance: Dark maroon
Odor: Slight vinegar-like
Vapor Pressure: Not available
Odor Threshold: Not available
Vapor Density: Not available
pH: Approx. 2.4
Relative Density: Not available
Melting point/freezing point: Not available
Solubility: Soluble in water
Boiling Point: Not available
Flash Point: Not available
Evaporation Rate: Not available
Flammability (solid, gas): Not available
Partition coefficient: n-octanol/water: Not available
Autoignition Temperature: Not available
Decomposition Temperature: Not available
Viscosity: Not available
Specific Gravity/Density: Not available

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, ignition sources, and excess heat. Light sensitive.
Incompatibilities with Other Materials: Strong oxidizing agents, reducing agents,

strong bases, acids, nitric acid, chromic acid, ethylene glycol, perchloric acid, phosphorous trichloride, oxidizers, sodium peroxide, strong caustics, carbonates, hydroxides, oxides, organic materials, sulfides, peroxides, metals, finely powdered metals, combustible material, and phosphates.

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides, sulfur oxides, aluminum oxides, sodium oxides, hydrogen iodide, irritating and toxic fumes and gases.

Section 11 - Toxicological Information
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CAS#7784-26-1 Ammonium Aluminum Sulfate Dodecahydrate:

LD50 Oral: Not available

LD50 Dermal: >2000 mg/kg (rat)

LC50 Inhalation: Not available

Carcinogenicity: Ammonium Aluminum Sulfate Dodecahydrate CAS#7784-26-1 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

CAS#517-28-2 Hematoxylin: RTECS#: MH7875000

LD50 Oral: >2000 mg/kg (rat)

LD50 Dermal: Not available

LC50 Inhalation: Not available

Carcinogenicity: Hematoxylin CAS#517-28-2 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

CAS#7681-55-2 Sodium Iodate: RTECS#: NN1400000

LD50 Oral: 505 mg/kg (mouse)

LD50 Dermal: Not available

LC50 Inhalation: Not available

Carcinogenicity: Sodium Iodate CAS#7681-55-2 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

CAS#56-81-5 Glycerin: RTECS#: MA8050000

LD50 Oral: 12600 mg/kg (rat)

LD50 Dermal: >10 g/kg (rabbit)

LC50 Inhalation: >2.75 mg/L 4h mist (rat)

Carcinogenicity: Glycerin CAS#56-81-5 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

CAS#64-19-7 Glacial Acetic Acid: RTECS#: AF1225000

LD50 Oral: 3310 mg/kg (rat)

LD50 Dermal: 1060 mg/kg (rabbit)

LC50 Inhalation: 11.4 mg/L 4h (rat)

Investigated as a mutagen, reproductive effector.

Skin corrosion/irritation: skin (rabbit), causes severe burns.

Serious eye damage/eye irritation: eyes (rabbit), corrosive to eyes, causes serious eye damage.

Carcinogenicity: Glacial Acetic Acid CAS#64-19-7 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

Information on the likely routes of exposure: Routes of entry anticipated: oral, dermal, inhalation, and eye.

Epidemiology: Not available.

Teratogenicity: Not available.

Reproductive Effects: Not available.

Developmental Effects: Not available.

Neurotoxicity: Not available.

Mutagenicity: Not available.

Specific Target Organ Toxicity, Single Exposure: Not available.

Specific Target Organ Toxicity, Repeated Exposure: Not available.

Symptoms associated with exposure: Causes skin irritation. Causes serious eye irritation. Eye contact may cause irritation, watering, redness, pain. Skin contact may cause irritation, redness, blistering.

The toxicological properties of this material have not been thoroughly investigated.

Section 12 - Ecological Information

Ecotoxicity: Do not release to the environment. Do not release to drains. Harmful to aquatic life.

CAS#517-28-2 Hematoxylin:

LC50, freshwater fish: >35 mg/L 96h (oncorhynchus mykiss)(rainbow trout)

EC50, freshwater algae: >100 mg/L 7d (lemna minor)

EC50, water flea: 29.7 mg/L 48h (daphnia magna)

CAS#7681-55-2 Sodium Iodate:

LC50, freshwater fish: 220 mg/L 96h (oncorhynchus mykiss)(rainbow trout)

CAS#56-81-5 Glycerin:

LC50, freshwater fish: 54000 mg/L 96h static (oncorhynchus mykiss)(rainbow trout)

CAS#64-19-7 Glacial Acetic Acid:

LC50, freshwater fish: 88 mg/L 96h (pimephales promelas)(fathead minnow)

LC50, freshwater fish: 75 mg/L 96h (lepomis macrochirus)(bluegill)

EC50, water flea: 95 mg/L 24h

EC50, microtox: 8.8 mg/L 5min (photobacterium phosphoreum)

Persistence and degradability: Not available.

Bio-accumulative potential: Not available.

Mobility: Will likely be mobile in the environment due to its water solubility.

Section 13 - Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal, state, and local regulations.

Section 14 – Transport Information

DOT

Non-Regulated

Section 15 - Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

Section 16 - Additional Information

SDS Creation Date: 10/21/12

Revision #1: 11/21/14

Revision #2: 1-21-21

Revision #3: 8-29-23

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