

Safety Data Sheet

Hematoxylin

Section 1 - Chemical Product and Company Identification

SDS Name: Hematoxylin

Catalog Numbers: R-56

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

H319-Serious eye damage/eye irritation: 2A

H335-Specific target organ toxicity, single exposure; Respiratory tract irritation: 3

H402-Hazardous to the aquatic environment, acute hazard: 3

Consists of unknown acute dermal toxicity.

Consists of unknown acute inhalation toxicity.

Pictograms or Hazard symbols and Hazard statement(s):



Signal Word: Warning

Hazard Statements:

H319-Causes serious eye irritation

H335-May cause respiratory irritation

H402-Harmful to aquatic life

Precautionary Statements:

P261-Avoid breathing dust/fume/gas/mist/vapours/spray.
P264-Wash thoroughly after handling.
P271-Use only outdoors or in a well-ventilated area.
P273-Avoid release to the environment.
P280-Wear eye protection/face protection.
P304+P340-If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312-Call a Poison Center/doctor if you feel unwell.
P337+P313-If eye irritation persists: Get medical advice/attention.
P403+P233-Store in a well-ventilated place. Keep container tightly closed.
P405-Store locked up.
P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
517-28-2	Hematoxylin	≥60 w/w

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. Rinse mouth with water and drink small quantities of water (stop if the exposed person feels sick as vomiting may be dangerous).

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. During a fire, irritating gases may be generated by thermal decomposition or combustion.

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

Hazardous Combustion Products: Carbon oxides, potentially hazardous fumes and gases.

Flash Point: Not available

Autoignition Temperature: Not applicable

Explosion Limits, Lower: Not available

Upper: Not available

NFPA Rating: (estimated) Health: 2; 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. Avoid dust formation.

Methods for Cleaning up: Carefully sweep up and containerize for proper disposal. Avoid generating dusty conditions. 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. Minimize dust generation and accumulation. Keep in a tightly closed and light-resistant container. Store in a cool, dry, and well-ventilated area. **Light sensitive.** Protect from direct sunlight. 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
Hematoxylin CAS#517-28-2	Not listed	Not listed	Not listed

Section 9 - Physical and Chemical Properties

Physical State: Powder Solid
Appearance: Light tan to brown crystalline powder
Odor: Not available
Vapor Pressure: <0.1 hPa at 25°C (77°F)
Odor Threshold: Not available
Vapor Density: Not available
pH: Not available
Relative Density: Not available
Melting point/freezing point: 200°C (392°F)
Solubility: 18.3 g/L at 20°C (68°F)
Boiling Point: Not available
Flash Point: Not available
Evaporation Rate: Not available
Flammability (solid, gas): Not available
Partition coefficient: n-octanol/water: log Pow \leq 0.3 at 30°C (86°F)
Autoignition Temperature: Not applicable
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. Light sensitive. May discolor on exposure to light.
Conditions to Avoid: Incompatible materials, light, excess heat. Avoid dust formation.
Incompatibilities with Other Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Carbon oxides, potentially hazardous fumes and gases.

Section 11 - Toxicological Information

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. See RTECS – tumorigenic effects have been reported in experimental animals.

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: Ames test (negative).

Specific Target Organ Toxicity, Single Exposure: Not available.

Specific Target Organ Toxicity, Repeated Exposure: Not available.

Symptoms associated with exposure: Eye exposure may cause irritation, pain, redness, watering, blurred vision. Inhalation may cause respiratory irritation.

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: ca. 29.7 mg/L 48h static (daphnia magna)

Persistence and degradability: No information available.

Bio-accumulative potential: No information 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: 10-15-12

Revision #1: RC 3-3-15

Revision #2: 6-1-18

Revision #3: 4-14-22

Revision #4: 12-6-23

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