

Safety Data Sheet Hematoxylin

Section 1: Identification

Product identifier

Product Name	Hematoxylin
Product Code	HE115
Relevant identified uses of the substance or mixture and uses advised against	
Recommended use	
Use Restrictions:	
Detail of the supplier of the safety data sheet	
Manufacturer	
Supplier/ Distributor	Chemical Store Inc. 1059 Main Avenue, Clifton, NJ 07011 Tel: 1(973)405-6248 Website: ChemicalStore.com Email: info@ChemicaStore.com
Emergency Telephone Number	+1 (973) 420 – 4972 (United States)

Section 2: Hazards Identification

Classification

This chemical is considered hazardous according to [US] OSHA (29 CFR 1910.1200, 2024)

Label Elements

Signal Word

Warning

Hazard Statements

Causes serious eye irritation

Precautionary

Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear eye/face protection

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Hazards not otherwise classified (HNOC)

None identified

Hazards classified under paragraph (d)(1)(ii) of 1910.1200



No information available

Section 3: Composition/ Information on

Hazardous Components					
Chemical Name	CAS Number	% by weight	LD50/LC50	Classifications	Comments
Hematoxylin	517-28-2	>80%			

Section 4: First Aid Measures

General Advice	If symptoms persist, call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and effects	None reasonably foreseeable
Notes to Physician	Treat symptomatically

Section 5: Fire Fighting Measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature Not applicable

Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
 Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

Protective Equipment and Precautions for Firefighters

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

NFPA

Health	Flammability	Instability	Physical Hazards
2	1	1	N/A

Section 6: Accidental Release Measures

Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation
Environmental Precautions	Should not be released into the environment.
Methods for Containment and Clean up	Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal

Section 7: Handling and Storage

Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from direct sunlight. Incompatible Materials. Strong oxidizing agents.

Section 8: Exposure Control/ Personal Protection

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection	Tight sealing safety goggles
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Recommended Filter type:	Particulates filter conforming to EN 143
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

Appearance

Physical State	Powder Solid
Color	Beige
Odor	Characteristic
Odor Threshold	No information available
<u>Property</u>	<u>Values</u>
Melting Point/Range	100 - 120 °C / 212 - 248 °F
Softening Point	No data available
Boiling Point/Range	No information available
Flash Point	No information available
Flammability (liquid)	Not applicable
Flammability (solid,gas)	No information available
Explosion Limits	No data available

Remarks **• Method**

Autoignition Temperature	Not applicable 267 °C
Decomposition Temperature	°C
pH	No information available
Viscosity	Not applicable
Water Solubility	Soluble in water
Solubility in other solvents	No information available
Partition Coefficient (n-octanol/water)	
Component	log Pow
Hematoxylin	0.3
Vapor Pressure	negligible
Density / Specific Gravity	No data available
Bulk Density	No data available
Vapor Density	Not applicable
Particle characteristics	No data available

Method - No information available
Solid

Solid

Solid

Other Information

Molecular Formula	C16 H14 O6
Molecular Weight	302.27
Evaporation Rate	Not applicable - Solid

Section 10: Stability and Reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions. Light sensitive.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to light.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO2)
Hazardous Polymerization	Hazardous polymerization does not occur
Hazardous Reactions	None under normal processing.

Section 11: Toxicological Information

Information on expected route of exposure

Inhalation	Avoid breathing dust or spray mist. May be harmful if inhaled.
Ingestion	May be harmful if swallowed
Eyes	Avoid contact with eyes. Irritating to eyes.
Skin	Avoid contact with skin. May cause irritation.

Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hematoxylin	LD50 > 2000 mg/kg (Rat)	-	-

Toxicologically Synergistic Products

No information available

(b) skin corrosion/irritation; Based on available data, the classification criteria are not met
Test method OECD Test Guideline 439
Test species in vitro
Observational endpoint No skin irritation

(c) serious eye damage/irritation; Category 2
Test method OECD 405
Test species rabbit
Observation end point Irritating to eyes

(d) respiratory or skin sensitization;
Respiratory No data available
Skin Based on available data, the classification criteria are not met

Component	Test method	Test species	Study result
Hematoxylin 517-28-2 (>80)	OECD Test Guideline 442D	in vitro	non-sensitising

(e) germ cell mutagenicity; Based on available data, the classification criteria are not met

Component	Test method	Test species	Study result
Hematoxylin 517-28-2 (>80)	OECD Test Guideline 471 Bacterial Reverse Mutation Test	Bacteria	negative

(f) carcinogenicity;

The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Hematoxylin	517-28-2	Not listed	Not listed	Not listed	Not listed	Not listed

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs None known.

(j) aspiration hazard; Not applicable Solid

Symptoms / effects, both acute and delayed; No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

Endocrine Disrupting Properties This product does not contain any known or suspected endocrine disruptors.

Section 12: Ecological Information

Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Hematoxylin	EC50 > 100 mg/L (7d) Lemna minor	LC50 > 35 mg/L (96h) Oncorhynchus mykiss	Not listed	EC50 = 29.7 mg/L (48h) Daphnia magna

Persistence and Degradability based on information available. May persist

Bioaccumulation/ Accumulation No information available.

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

Component	log Pow
Hematoxylin	0.3

Toxicity	Material data lacking.
Persistence and degradability	Material data lacking.
Bio accumulative potential	Material data lacking.
Mobility in Soil	Material data lacking.
Other adverse effects Other Information	No studies have been found
Other information	No data is available on the adverse effects of this material on the environment. Aquatic toxicity values are expected to be in the range of 1 - 10 mg/l based upon data from components and similar products.

Section 13: Disposal Considerations

Waste treatment methods

Product waste	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Packaging waste	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14: Transport Information

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

Section 15: Regulatory Information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Hematoxylin	517-28-2	Listed	ACTIVE	Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)	Not applicable
TSCA 12(b) - Notices of Export	Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Hematoxylin	517-28-2	Listed	-	208-237-3	Listed	Listed	Listed	Listed	Listed	KE-10609

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ): N
 DOT Marine Pollutant N
 DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Hematoxylin	517-28-2	-	-	-

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Hematoxylin	517-28-2	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Hematoxylin	517-28-2	Not applicable	Not applicable	Not applicable	Not applicable

Section 16: Other Information

Revision date: 2026-05-21

Initial preparation date: 2026-05-21

SDS version: 1.0

Supersedes: [No previous version number]

Change History

Version	Date	Description of Change
[1.0]	[2026-05-21]	Initial SDS creation
[1.1]	[YYYY-MM-DD]	[e.g., Updated hazard classification / Added toxicology data / Editorial corrections]

Abbreviations and Acronyms

Term	Meaning
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
OSHA	Occupational Safety and Health Administration

Term	Meaning
ACGIH	American Conference of Governmental Industrial Hygienists
NIOSH	National Institute for Occupational Safety and Health
TWA	Time-Weighted Average
STEL	Short-Term Exposure Limit
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
PBT	Persistent, Bioaccumulative, Toxic
vPvB	very Persistent and very Bioaccumulative

[Add additional abbreviations used in this SDS]

Key Literature and Data Sources

This Safety Data Sheet was prepared using information from the following sources:

- [ECHA / REACH database]
 - [NIOSH Pocket Guide]
 - [PubChem / NIH]
 - [OECD test data]
 - [Supplier technical data sheets]
 - [Scientific literature]
-

Hazard Classification Method

The classification of this substance was determined by:

- Experimental data
- Read-across
- Literature review
- GHS calculation method
- Supplier classification

[Describe method if required]

Full Text of Hazard and Precautionary Statements

[If abbreviated elsewhere, provide full text here]

Example:

H302 – Harmful if swallowed

H315 – Causes skin irritation

P280 – Wear protective gloves/protective clothing/eye protection/face protection

[Insert applicable H-codes and P-codes]

Training Advice

Workers handling this product should be trained in:

- Chemical hazard communication
 - Use of personal protective equipment
 - Safe handling and storage
 - Emergency response and spill procedures
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Disclaimer

The information provided in this Safety Data Sheet is believed to be accurate and represents the best information currently available. However, no warranty, express or implied, is made regarding its accuracy, completeness, or suitability for any particular purpose. The user is responsible for determining the applicability of this information to their specific use and for compliance with all applicable laws and regulations.

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