

# SAFETY DATA SHEET

Creation Date 05-May-2011

Revision Date 20-Jun-2024

Revision Number 5

# 1. Identification

## **Product Name**

## Hematoxylin hydrate

# Cat No. : H345-25; H345-100; XXH3451KG; NC2947182

CAS No Synonyms 517-28-2 C.I. 75290; Natural Black 1

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

## Details of the supplier of the safety data sheet

### <u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

### **Emergency Telephone Number**

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

## Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	0 /

### Label Elements

Signal Word Warning

Hazard Statements Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation



#### Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

### Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

### 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

## Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

## Storage

Store in a well-ventilated place. Keep container tightly closed

## Store locked up

## Disposal

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

None identified

## 3. Composition/Information on Ingredients

	Component	CAS No	Weight %
	Hematoxylin	517-28-2	100
		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

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 Method -	No information available No information available
Autoignition Temperature Explosion Limits	Not applicable
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	
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 (CO<sub>2</sub>). **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 2	Flammability 1	<b>Instability</b> 0	Physical hazards N/A	
	6. Accidental re	elease measures		
Personal Precautions	Ensure adequate ventilat formation.	on. Use personal protective equ	ipment as required. Avoid dust	
Environmental Precautions	Should not be released ir Information.	Should not be released into the environment. See Section 12 for additional Ecological Information.		
Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed Up containers for disposal.				
	7. Handling	and storage		
Handling	• •	equipment/face protection. Ens t in eyes, on skin, or on clothing	ure adequate ventilation. Avoid . Avoid ingestion and inhalation.	
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.			
8.	Exposure controls	/ personal protecti	on	
Exposure Guidelines	es This product does not contain any hazardous materials with occupational exposure limitsestablished 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	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. 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.	

# 9. Physical and chemical properties

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Physical State	Powder Solid
Appearance	Amber
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point/Range	100 - 120 °C / 212 - 248 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	negligible
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Soluble in hot water
Partition coefficient; n-octanol/wa	ater No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C16 H14 O6 . x H2 O
Molecular Weight	302.27
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# 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.
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.

# 11. Toxicological information

### Acute Toxicity

Product Information Component Information	-					
Componer		LD50 Oral	LD50 Oral LD50 Dermal LC50 Inhalation			
Hematoxyli		LD50 > 2000 mg/kg (	Rat)	Not listed	No	ot listed
Toxicologically Syn	ergistic	No information av	/ailable		•	
Products	-					
Delayed and immed	liate effects	as well as chronic effe	ects from short a	nd long-term expo	sure	
Irritation		No information av	No information available			
Sensitization		No information av	vailable			
Carcinogenicity		The table below in	ndicates whether e	each agency has lis	ted any ingredient	as a carcinogen.
Component	CAS No	D IARC	NTP	ACGIH	OSHA	Mexico
Hematoxylin	517-28-2	2 Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information av	No information available			
Reproductive Effect	ts	No information av	No information available.			
Developmental Effe	cts	No information av	No information available.			
Teratogenicity		No information av	No information available.			
STOT - single exposision STOT - repeated exp		Respiratory syste None known	Respiratory system None known			
Aspiration hazard		No information av	No information available			
Symptoms / effects delayed	s,both acute	and No information av	nd No information available			
Endocrine Disrupto	r Informatio	n No information av	No information available			
Other Adverse Effe	cts		Tumorigenic effects have been reported in experimental animals. The toxicological properties have not been fully investigated.		icological	

# 12. Ecological information

Ecotoxicity
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Do not empty into drains.

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

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

### **Bioaccumulation/ Accumulation** No information available.

Mobility

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

Component	log Pow
Hematoxylin	<=0.3

	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
	14 Transport information

14. Transport information				
DOT TDG IATA	Not regulated			
TDG	Not regulated			
ΙΑΤΑ	A Not regulated			
IMDG/IMO	Not regulated			
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	Х	ACTIVE	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

### TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

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	Х	-	208-237-3	Х	Х	Х	Х	Х	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
<b>OSHA</b> - 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
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N 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

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

Not applicable

### 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	<b>Convention (PIC)</b>	Basel Convention (Hazardous Waste)
Hematoxylin	517-28-2	Not applicable	Not applicable	Not applicable	Not applicable

Prepared By
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16. Other information

Regulatory Affairs Richard Allan Scientific A Subsidiary of Thermo Fisher Scientific Tel: (800) 522-7270

Creation Date	05-May-2011
Revision Date	20-Jun-2024
Print Date	20-Jun-2024
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally
	Harmonized System of Classification and Labeling of Chemicals (GHS).

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

