

SAFETY DATA SHEET

Revision Date 29-Mar-2024

Revision Number 5

1. Identification

Product Name

Hematoxylin hydrate

Cat No. : 47223

CAS No Synonyms

Recommended Use Uses advised against

No information available Laboratory chemicals.

517-28-2

Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe:**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 Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 4 Category 2 Category 2 Category 3

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	90-95
Water	7732-18-5	1-7

4. First-aid measures

Skin Contact	Wash off immediately with plenty of water for at least 15 minutes.
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- Inhalation Remove to fresh air.
- Ingestion Do NOT induce vomiting.

Most important symptoms and No information available.

effects Notes to Physician	Treat symptomatically		
	5. Fire-fighting	measures	
Unsuitable Extinguishing Media	No information available		
Flash Point Method -	No information available No information available		
Autoignition Temperature Explosion Limits	Not applicable		
Upper Lower Sensitivity to Mechanical Impact	No data available No data available No information available No information available		
Specific Hazards Arising from the Cl Keep product and empty container awa		nition.	
Hazardous Combustion Products Carbon monoxide (CO). Carbon dioxide Protective Equipment and Precautio As in any fire, wear self-contained brea protective gear.	ns for Firefighters	and, MSHA/NIOSH (approv	ved or equivalent) and full
NFPA Health 2	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental rele	ase measures	
Personal Precautions Environmental Precautions	Ensure adequate ventilation. See Section 12 for additional		lipment as required.
Methods for Containment and Clean Up	No information available.		
	7. Handling ar	nd storage	
Handling	Ensure adequate ventilation.		
Storage.	Keep containers tightly closed Materials. Strong oxidizing a		tilated place. Incompatible
8. Ex	posure controls / p	personal protecti	on
Exposure Guidelines	This product does not contain limitsestablished by the region		
Engineering Measures	Ensure that eyewash stations	and safety showers are clo	se 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.

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

Physical State	Powder Solid
Appearance	Cream Brown
Odor	No information available
Odor Threshold	No information available
pH	Not applicable
Melting Point/Range	200 °C / 392 °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	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
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10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Light sensitive.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO ₂)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information			
Oral LD50	Category 4. ATE = 300 - 2	:000 mg/kg.	
Dermal LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.		
Mist LC50	Based on ATE data, the cl	assification criteria are not met. A	ATE > 5 mg/l.
Vapor LC50	Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.		
Component Information			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation

Hematoxyli	n	LD50 > 2000 mg/kg (LD50 > 2000 mg/kg (Rat) Not listed Not listed			ot listed
	Water				-	
Toxicologically Syn Products	ergistic	NO INIOMALION AV	allable			
	ista affacte	as well as chronic effe	acts from short ar	nd long-term expo	SUIPA	
Delayed and milled						
Irritation		No information av	No information available			
Sensitization		No information av	ailable			
Carcinogenicity		The table below in	ndicates whether e	ach agency has lis	ted any ingredient	as a carcinogen.
Component	CAS N	o IARC	NTP	ACGIH	OSHA	Mexico
Hematoxylin	517-28-	-2 Not listed	Not listed	Not listed	Not listed	Not listed
Water	7732-18		Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information av	ailable			
Reproductive Effect	S	No information av	ailable.			
Developmental Effe	cts	No information av	No information available.			
Teratogenicity		No information av	No information available.			
STOT - single expos STOT - repeated exp		Respiratory syste None known	Respiratory system None known			
Aspiration hazard		No information av	No information available			
Symptoms / effects delayed	,both acute	te and No information available				
Endocrine Disrupto	Endocrine Disruptor Information No information available					
Other Adverse Effects The toxicological properties have not been fully investigated.						

12. Ecological information

Ecotoxicity 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 Degrada	ability No information	n available		

Persistence and Degradability

Bioaccumulation/ Accumulation

No information available.

Mobility

No information available.

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
DOT	Not regulated
<u>TDG</u>	Not regulated

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IATA	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	-
Water	7732-18-5	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 Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

China, X = listed, Australia, U.S.A. (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (KECL), China (IECSC), Japan (ENCS), Philippines (PICCS).

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
Water	7732-18-5	Х	-	231-791-2	Х	Х		Х	Х	KE-35400

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

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Water	-	-	Х	-	-

U.S. Department of Transportation Reportable Quantity (RQ):

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

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	0	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Hematoxylin	517-28-2	-	-	-
Water	7732-18-5	-	-	_

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
Water	7732-18-5	Listed	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
Water	7732-18-5	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Revision Date Print Date Revision Summary	29-Mar-2024 29-Mar-2024 New emergency telephone response service provider.

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

End of SDS