Material Safety Data Sheet

Section 1: Product and Company Identification			
Product Name	Hematoxylin		
Catalogue Number:	ASC-1032		
E-mail:	Sales@ausamics.com	**Website**:	Ausamics.com

Section 2: Hazards Identification	
Classification of the substance or mixture **Classification according to Regulation (EC) No 1272/2008** Eye irritation (Category 2), H319	
Label elements **Labelling according to Regulation (EC) No 1272/2008**	
Pictogram	
Signal Word	Warning
Hazard statement(s) H319 Causes serious eye irritation.	
Precautionary statement(s) P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/ attention. Supplemental Hazard Statements none	
Other hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.	

Section 3: Composition / Information on Ingredients			
Mixture			
Synonym		Natural Black 1	
Formula Molecular weight CAS-No. EC-No.		C16H14O6 · xH2O 302,28 g/mol 517-28-2 208-237-3	
Component		Classification	Concentration
Haematoxylin			
CAS-No. EC-No.	517-28-2 208-237-3	Eye Irrit. 2; H319	<= 100 %

Description of first-aid measures	
General advice	Show this material safety data sheet to the doctor in attendance.
If inhaled	After inhalation: fresh air.
In case of skin contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
In case of eye contact	After eye contact: rinse out with plenty of water. Call in the ophthalmologist. Remove contact lenses.
If swallowed	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.	
Indication of any immediate medical attention and special treatment needed No data available	

Section 5: Fire Fighting Measures
Extinguishing media
Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder.
Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.
Special hazards arising from the substance or mixture Carbon oxides Combustible. Development of hazardous combustion gases or vapors possible in the event of fire.
Advice for firefighters In the event of fire, wear self-contained breathing apparatus.
Further information Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6: Accidental Release Measures
Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Avoid inhalation of dust. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
Environmental precautions Do not let product enter drains.
Methods and materials for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dust.
Reference to other sections For disposal see section 13.

Section 7: Handling and Storage
Precautions for safe handling For precautions see section 2.

Conditions for safe storage, including any incompatibilities	
Storage conditions	Tightly closed. Dry. Light sensitive.
Storage class	Storage class (TRGS 510): 11: Combustible Solids.

Section 8: Exposure Controls / Personal Protection
Control parameters **Ingredients with workplace control parameters**
Exposure controls
Personal protective equipment **Eye/face protection** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.
Skin protection Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested: KCL 741 Dermatril® L Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested: KCL 741 Dermatril® L
Body Protection protective clothing
required when dust is generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P2 The entrepeneur must ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures must be properly documented.
Control of environmental exposure Do not let product enter drains.

Section 9: Physical and Chemical Properties	
Physical state	Powder
Color	Beige
Odor	No data available
Melting point/freezing point	Melting point/range: 200 °C - dec.
Initial boiling point and boiling range	Decomposes below the boiling point.
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Flash point	No data available

Vapor pressure	< 0,1 hPa at 25 °C - OECD Test Guideline 104
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
Water solubility	18,3 g/l at 20 °C - OECD Test Guideline 105
Partition coefficient: n-octanol/water	log Pow: <= 0,3 at 30 °C - OECD Test Guideline 117 - Bioaccumulation is not expected.
Density	No data available
Relative density	No data available
Relative vapor density	No data available
Particle characteristics	No data available
Explosive properties	No data available
Oxidizing properties	none
Other safety information	No data available

Section 10: Stability and Reactivity

Reactivity
The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

Chemical stability
The product is chemically stable under standard ambient conditions (room temperature).

Possibility of hazardous reactions
Violent reactions possible with: Strong oxidizing agents

Conditions to avoid
no information available

Incompatible materials
No data available

Hazardous decomposition products
In the event of fire: see section 5.

Section 11: Toxicological Information

Information on toxicological effects

Mixture

Acute toxicity	LD50 Oral - Rat - female - >= 2.000 mg/kg (OECD Test Guideline 423) Inhalation: No data available Dermal: No data available
Skin corrosion/irritation	Skin - in vitro membrane barrier Result: No skin irritation - 3 - 60 min (OECD Test Guideline 431)
Serious eye damage/eye irritation	Eyes - Rabbit Result: Eye irritation - 1 h (OECD Test Guideline 405)

Respiratory or skin sensitization	In vitro study - In vitro study Result: negative (OECD Test Guideline 442D)
Germ cell mutagenicity	Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	
Endocrine disrupting properties Product: Assessment	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
RTECS: MH7875000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately. Handle in accordance with good industrial hygiene and safety practice.	

Section 12: Ecological Information	
Toxicity	
Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - > 35 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - ca. 29,7 mg/l - 48 h (OECD Test Guideline 202) static test NOEC - Daphnia magna (Water flea) - < 20 mg/l - 48 h (OECD Test Guideline 202)
Persistence and degradability	
Biodegradability	anaerobic - Exposure time 28 d Result: 10 - 20 % - Not readily biodegradable. (OECD Test Guideline 301F)
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Endocrine disrupting properties Product:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100

Assessment	or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Other adverse effects	Discharge into the environment must be avoided.

Section 13: Disposal Consideration
Waste treatment methods **Product** Offer surplus and non- recyclable solutions to a licensed company. Contact a licensed professional waste disposal service to dispose of this material
Contaminated packaging Dispose of as unused product.

Section 14: Transport Information	
UN number	ADR/RID: - IMDG: - IATA: -
UN proper shipping name	ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods
Transport hazard class(es)	ADR/RID: - IMDG: - IATA: -
Packaging group	ADR/RID: - IMDG: - IATA: -
Environmental hazards	ADR/RID: no IMDG Marine pollutant: no IATA: no
Special precautions for user	No data available
Further information	Not classified as dangerous in the meaning of transport regulations.

Section 15: Regulatory Information
Safety, health and environmental regulations/legislation specific for the substance or mixture This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Other regulations Take note of Dir 94/33/EC on the protection of young people at work.
Chemical Safety Assessment For this product a chemical safety assessment was not carried out.

Section 16: Additional Notes	
Documented By	Ausamics Life Science Sales@Ausamics.com
Revision date	June 11, 2024
Summary of Revisions	This document has been revised to meet the requirements of the US OSHA HazCom 2012 Standard, which supersedes the existing regulations outlined in 29 CFR 1910.1200, in order to align with the internationally recognized globally Harmonized System of Classification and Labeling of chemicals (GHS).

Disclaimer	The information presented in this Safety Data sheet is accurate to the best of our knowledge, information, and belief at the time of publication. It is intended as a guide for the safe handling, use, processing, storage, transportation, disposal, and release of specific materials. However, it should be interpreted as a warranty or quality specification. The provided information pertains solely to the designated material and may not be applicable to its use in combination with other materials or in any process, unless explicitly stated in the text.