

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name Hematoxylin Solution - Harris Formula
CAS number See Section 3
Synonyms No information available

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory Chemicals

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC
 12501 Pauls Valley Road
 Austin, Texas 78737
 U.S.A.
Telephone 512-668-9918
Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Reproductive Toxicity Category 1

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

May damage fertility or the unborn child.

Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves and eye protection.

IF exposed or concerned: Get medical attention.

Store locked up.

Dispose of contents in accordance with local, state, federal and international regulations.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Data not available.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Water	No information available	7732-18-5	89.73%
Aluminum Ammonium Sulfate Dodecahydrate	No information available	7784-26-1	5.87%
Ethyl Alcohol	No information available	64-17-5	3.68%
Hematoxylin	No information available	517-28-2	0.49%
Methyl Alcohol	No information available	67-56-1	0.18%
Potassium Iodate	No information available	7758-05-6	< 0.1%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled Not expected to require first aid. If necessary, remove to fresh air.

In case of skin contact Results in drying and cracking which can lead to secondary infections and dermatitis.

In case of eye contact May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva.

If swallowed Dilute immediately with water or milk. Induce vomiting. Call a physician.

4.2 Most important symptoms and effects, both acute and delayed

May damage fertility or the unborn child. May cause irritation to the eyes. May be harmful if swallowed. Contact may result in allergic reaction. Wash areas of contact with plenty of water. If ingested, dilute with water, induce vomiting then call a physician. EYE CONTACT: May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva. SKIN CONTACT: Results in drying and cracking which can lead to secondary infections and dermatitis.

4.3 Indication of any immediate medical attention and special treatment needed

Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops. Dilute immediately with water or milk. Induce vomiting. Call a physician.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use any means suitable for extinguishing surrounding fire.

Unsuitable extinguishing media No information available

5.2 Specific hazards arising from the substance or mixture

Not considered to be a fire or explosion hazard.

5.3 Special protective equipment and precautions for firefighters

Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

5.4 Further information

Flash Point No information available

Autoignition Temperature No information available

Explosion limits

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

NFPA

Health	Flammability	Instability	Physical hazards
1	0	0	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective gloves and eye protection.

6.2 Environmental precautions

No information available

6.3 Methods and materials for containment and cleaning up

Absorb with suitable material and dispose of in accordance with local regulations.

6.4 Reference to other sections

No information available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin.

Hygiene measures

No information available

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store locked up. Protect from freezing and physical damage. Store at controlled room temperature, 15 - 30°C.

Incompatibilities

See Section 10.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
Ethyl Alcohol (64-17-5)	TWA	1000 ppm TWA; 1900 mg/m ³ TWA
Methyl Alcohol (67-56-1)	TWA	200 ppm TWA; 260 mg/m ³ TWA

US. ACGIH Threshold Limit Values

Component	Type	Value
Ethyl Alcohol (64-17-5)	TLV-STEL	1000 ppm STEL
Methyl Alcohol (67-56-1)	TLV-STEL TLV-TWA	250 ppm STEL 200 ppm TWA

US. NIOSH: Pocket Guide to Chemical Hazards

No information available

Biological occupational exposure limits

No information available

8.2 Exposure controls

Appropriate engineering controls

No specific controls are needed. Normal room ventilation is adequate.

Personal protective equipment**Eye/face protection**

Wear protective gloves and eye protection. Safety glasses or goggles.

Skin protection

Wear protective gloves and eye protection. Chemical resistant gloves.

Body Protection

Wear protective gloves and eye protection.

Respiratory protection

Normal room ventilation is adequate.

Control of environmental exposure

No information available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Dark purple liquid
Odor	Data not available.
Odor Threshold	Data not available.
pH	2 - 3
Melting Point/Range	Approximately 0°C
Boiling Point/Range	Approximately 98°C
Evaporation Rate	Data not available.
Flammability (solid)	Data not available.
Flammability or explosive limit	Data not available.
Upper	Data not available.
Lower	Data not available.

Vapor Pressure	Data not available.
Vapor Density	Data not available.
Density	1.02
Solubility	Miscible
Partition coefficient; n-octanol/water	Data not available.
Autoignition Temp	Data not available.
Decomposition Temp	Data not available.
Viscosity	Data not available.
Molecular Formula	Data not available.
Molecular Weight	Data not available.
VOC Content(%)	Data not available.
Oxidizing properties	Data not available.

9.2 Other safety information Data not available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal use and storage conditions.

10.2 Chemical stability

Stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

Data not available.

10.4 Conditions to avoid

Avoid incompatible materials.

10.5 Incompatible materials

Oxidizers, Platinum, Sodium, Potassium Dioxide, Bromine Pentafluoride, acetyl Bromide, Acetyl Chloride.

10.6 Hazardous decomposition products

Will not occur.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methanol	Rat: 5628 mg/kg	Not listed	Not listed
Ethanol	Rat: 7060 mg/kg, respiration changes noted	Not listed	Not listed

Skin corrosion/irritation

Not applicable.

Serious eye damage/eye irritation

Not applicable.

Respiratory or skin sensitization

Not applicable.

Germ cell mutagenicity

Not applicable.

Carcinogenicity

Not applicable.

Specific target organ toxicity - single exposure

Not applicable.

Specific target organ toxicity - repeated exposure

Not applicable.

Reproductive toxicity

May damage fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Chronic effects

Data not available.

11.2 Additional Information

Data not available.

SECTION 12: Ecological information

12.1 Toxicity

Not applicable.

12.2 Persistence and degradability

Data not available.

12.3 Bio accumulative potential

Data not available.

12.4 Mobility in soil

Data not available.

12.5 Results of PBT and vPvB assessment

Data not available.

12.6 Endocrine disrupting properties

Data not available.

12.7 Other adverse effects

Data not available.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Data not available.

SECTION 14: Transport information

DOT (US) Not regulated according to DOT Regulations.

IMDG No information available

IATA Not regulated according to IATA Dangerous Goods Regulations.

SECTION 15: Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Hematoxylin (CAS # 517-28-2): "Present (ACTIVE)" As Benz[b]indeno[1,2-d]pyran-3,4,6a,9,10(6H)-pentol, 7,11b-dihydro-, (6aS,11bR)- [517-28-2]

Ethyl Alcohol (CAS # 64-17-5): "Present (ACTIVE)" As Ethanol [64-17-5]

Methyl Alcohol (CAS # 67-56-1): "Present (ACTIVE)" As Methanol [67-56-1]

Water (CAS # 7732-18-5): Present [XU] (ACTIVE)

Potassium Iodate (CAS # 7758-05-6): "Present (ACTIVE)" As Iodic acid (HIO3), potassium salt (1:1) [7758-05-6]

Aluminum Ammonium Sulfate Dodecahydrate (CAS # 7784-26-1): "Present (ACTIVE)" As Sulfuric acid, aluminum ammonium salt (2:1:1) [7784-25-0]

CERCLA Hazardous Substance List (40 CFR 302.4)

No information available

SARA 304 Emergency release notification

No information available

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Methyl Alcohol (CAS # 67-56-1): "5000 lb final RQ

Methyl Alcohol (CAS # 67-56-1): 2270 kg final RQ" As Methanol [67-56-1]

SARA 313 (TRI reporting)

Methyl Alcohol (CAS # 67-56-1): "1.0 % de minimis concentration" As Methanol [67-56-1]

Aluminum Ammonium Sulfate Dodecahydrate (CAS # 7784-26-1): "1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing)" As Aqueous ammonia from water dissociable ammonium salts and other sources [RR-47925-4]

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

No information available

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

No information available

Safe Drinking Water Act

No information available

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

No information available

US state regulations

US. Massachusetts RTK - Substance List

Ethyl Alcohol (CAS # 64-17-5): "Teratogen" As Ethyl alcohol [64-17-5]

Methyl Alcohol (CAS # 67-56-1): "Present" As Methanol [67-56-1]

US. New Jersey Worker and Community Right-to-Know Act

Ethyl Alcohol (CAS # 64-17-5): "carcinogen
Ethyl Alcohol (CAS # 64-17-5): "sn 0844" As Ethyl alcohol [64-17-5]
Ethyl Alcohol (CAS # 64-17-5): flammable - third degree
Ethyl Alcohol (CAS # 64-17-5): mutagen
Ethyl Alcohol (CAS # 64-17-5): teratogen
Methyl Alcohol (CAS # 67-56-1): "flammable - third degree
Methyl Alcohol (CAS # 67-56-1): "SN 1222 500 lb TPQ" As Methanol [67-56-1]
Methyl Alcohol (CAS # 67-56-1): teratogen

US. Pennsylvania Worker and Community Right-to-Know Law

Ethyl Alcohol (CAS # 64-17-5): "Present" As Denatured alcohols [RR-00113-8]
Ethyl Alcohol (CAS # 64-17-5): "Present" As Ethanol [64-17-5]
Methyl Alcohol (CAS # 67-56-1): "Environmental hazard" As Methanol [67-56-1]
Methyl Alcohol (CAS # 67-56-1): "Present" As Denatured alcohols [RR-00113-8]
Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6]
Aluminum Ammonium Sulfate Dodecahydrate (CAS # 7784-26-1): "Present" As Aluminum soluble salts [RR-00021-5]

California Proposition 65

Ethyl Alcohol (CAS # 64-17-5): "carcinogen, 7/1/1988 (when associated with alcohol abuse)
Ethyl Alcohol (CAS # 64-17-5): "developmental toxicity, 10/1/1987 (listed under Ethyl alcohol in alcoholic beverages)" As Alcoholic beverages [RR-01961-4]
Ethyl Alcohol (CAS # 64-17-5): carcinogen, 4/29/2011" As Alcoholic beverages [RR-01961-4]
Methyl Alcohol (CAS # 67-56-1): "developmental toxicity, 3/16/2012" As Methanol [67-56-1]

SECTION 16: Other information

Date of Issue: 12/30/2025

SECTION 17: Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.