



Hematoxylin

Material Safety Data Sheet

SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1. Product identifier

Product: Blue Hematoxylin Counterstain
Catalog No.: HB-050
HB-200

Product: Purple Hematoxylin Counterstain
Catalog No.: HP-050
HP-200

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

Recommended use: Histology Stain, Counterstain for immunohistochemistry

1.3. Details of the supplier of the safety data sheet

MANUFACTURER: Cell IDx, Inc.
6197 Cornerstone Court E, Ste 102
San Diego, CA 92121
EMAIL ADDRESS: info@cellidx.com

1.4. Emergency telephone number

9 am-5 pm PST, M-F 858.452.5800

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the mixture

Carc. 1A H350. May cause cancer.

2.2. GHS label elements

Danger – GHS08



Hazard-determining components of labeling:
ethanol

Hazard statements

May cause cancer.

Precautionary statements

Obtain special instructions before use.

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

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

IF exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards which do not result in classification

None

2.4. Classification System

NFPA ratings (scale 0 - 4)

Health 1

Fire 1

Reactivity 0

HMIS-ratings (scale 0 - 4)

Health 1

Fire 1

Reactivity 0

Other hazards

Results of PBT and vPvB assessment

PBT Not applicable.

vPvB Not applicable



SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical characterization	Mixtures	
Description	Mixture of the substances listed below with non-hazardous additions.	
Dangerous components		
Cas #	Description	%
57-55-6	propane-1,2-diol	10-25
64-17-5	ethanol	10-25
64-19-7	acetic acid	≥0.1-≤2.5

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air and keep at rest. Get medical attention if any discomfort continues. If breathing stops, provide artificial respiration. Get medical attention immediately!

In case of skin contact

Wash off with soap and plenty of water. Consult a physician if symptoms occur after washing.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No specific first aid measures noted

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials

5.2. Special hazards arising from the substance or mixture

No further relevant information available

5.3. Special advice for firefighters

No special measures required

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Not required

6.2. Environmental precautions

Dilute with plenty of water
Do not allow to enter sewers/surface or ground water

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

6.4. Reference to other sections

No dangerous substances are released

6.5. Protective Action Criteria for Chemicals.

Cas #	Description	%
PAC-1:		
57-55-6	propane-1,2-diol	30 mg/m ³
64-17-5	ethanol	1,800 ppm
64-19-7	acetic acid	5 ppm



7681-55-2	sodium iodate	0.83 mg/m ³
PAC-2:		
57-55-6	propane-1,2-diol	1,300 mg/m ³
64-17-5	ethanol	3300* ppm
64-19-7	acetic acid	35 ppm
7681-55-2	sodium iodate	9.1 mg/m ³
PAC-3:		
57-55-6	propane-1,2-diol	7,900 mg/m ³
64-17-5	ethanol	15000* ppm
64-19-7	acetic acid	250 ppm
7681-55-2	sodium iodate	55 mg/m ³

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace

7.2. Conditions for safe storage, including any incompatibilities

No special requirements

7.3. Specific end use(s)

Not required

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with limited values that require monitoring at the workplace

57-55-6 propane-1,2-diol	
WEEL	Long-term value: 10 mg/m ³
64-17-5 ethanol	
PEL	Long-term value: 1900 mg/m ³ , 1000 ppm
REL	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1880 mg/m ³ , 1000 ppm
64-19-7 acetic acid	
PEL	Long-term value: 25 mg/m ³ , 10 ppm
REL	Short-term value: 37 mg/m ³ , 15 ppm
	Long-term value: 25 mg/m ³ , 10 ppm
TLV	Short-term value: 37 mg/m ³ , 15 ppm
	Long-term value: 25 mg/m ³ , 10 ppm

8.2. Exposure controls

General protective and hygienic measures:

Keep away from foodstuffs, beverages, and feed.
Wash hands before breaks and at the end of work.
Store protective clothing separately.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:

Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves:
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material:
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Form: Liquid Color: Purple
Odor	Like alcohol



Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	371 °C (699.8 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	2.6 Vol %
Upper:	15 Vol %
Vapor pressure at 20 °C (68 °F):	59 hPa (44.3 mm Hg)
Density:	Not determined.
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Dynamic:	Not determined.
Kinematic:	Not determined.
Other information:	No further relevant information available.

9.2. Other information

None

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under normal temperature conditions

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No further relevant information available

10.5. Incompatible materials

No further relevant information available

10.6. Hazardous decomposition products

None under normal conditions

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

Primary irritant effect:

On the skin: No irritant effect.

On the eye: No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Carcinogenic categories

IARC (International Agency for Research on Cancer)

64-17-5 ethanol

NTP (National Toxicology Program)

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.



SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

No further relevant information available

12.2. Persistence and degradability

No further relevant information available

12.3. Bio accumulative potential

No further relevant information available

12.4. Mobility in soil

No further relevant information available

12.5. Results of PBT and vPvB assessment

Not applicable

12.6. Other adverse effects

Slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course, or sewage system

SECTION 13: DISPOSAL CONSIDERATIONS

General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product

13.1. Waste treatment methods

Uncleaned packagings

Recommendation: Disposal must be made according to official regulations

Recommended cleansing agent: Water, if necessary with cleansing agent

SECTION 14: TRANSPORTATION INFORMATION

14.1. UN number/UN Proper Shipping Name

Not applicable.

14.2. DOT (US)

Not dangerous good

14.3. Transport hazard class(es)

Not dangerous goods.

14.4. Packing group

Not applicable

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutants

No

14.6. Special precautions for user

None

14,7, Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

SECTION 15: REGULATORY INFORMATION

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

SARA

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):



57-55-6	propane-1,2-diol	
64-17-5	ethanol	
64-19-7	acetic acid	
517-28-2	haematoxylin	
7681-55-2	sodium iodate	
7732-18-5	water, distilled, conductivity or of similar purity	
TSCA new (21st Century Act) (Substances not listed)		
Proposition 65		
Chemicals known to cause cancer:		
None of the ingredients is listed.		
Chemicals known to cause reproductive toxicity for females:		
None of the ingredients are listed.		
Chemicals known to cause reproductive toxicity for males:		
None of the ingredients are listed.		
Chemicals known to cause developmental toxicity:		
64-17-5	ethanol	
Carcinogenic categories		
EPA (Environmental Protection Agency)		
None of the ingredients are listed.		
TLV (Threshold Limit Value established by ACGIH)		
64-17-5	ethanol	A3
NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients are listed.		

SECTION 16: OTHER INFORMATION

Disclaimer

This information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of the material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.