



Material Safety Data Sheet (MSDS)
Revision Date: 11-27-2022

Kit Name: IHC Hematoxylin Counterstain Kit (300 Tests)
Catalog#: VB-6004

Components:

VB-6004	RTU Hematoxylin Solution 15ml × 2
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VB-6004 RTU Hematoxylin solution MSDS

1. Identification of the Substance/Mixture and Company

Product Name	RTU Hematoxylin solution (15ml × 2)
Catalog#	VB-6004
Product Description	Component
Manufacturer/Supplier	VitroVivo Biotech, LLC. 405 E Gude Dr., Suite 214, Rockville, MD 20850
Tel/fax Number	Phone: 301-500-0499; Toll free: 1-800-260-9817 Fax: 844-248-6208

2. Hazards Identification

GHS CLASSIFICATION:

Flammable liquid Category 2; Acute toxicity, oral Category 5; Acute toxicity, dermal Category 5; Serious eye damage/eye irritation Category 2B

Signal Word: Danger!

Hazard Phrases	
H225	Highly flammable liquid and vapor.
H303+H313	May be harmful if swallowed or in contact with skin.
H320	Causes eye irritation.

Precautionary Phrases	
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P280	Wear protective gloves/ eye protection/ face protection.
P242	Use only non-sparking tools.
P233	Keep container tightly closed.
P243	Take precautionary measures against static discharge.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or physician.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353	IF ON SKIN: Remove/take off all contaminated clothing. Rinse skin with water shower

3. Composition/information on ingredients

Mixtures Description: Mixture of the substances listed below.

Composition:

Component	CAS#
Aluminum potassium sulfate	10043-67-1
Hematoxylin	517-28-2
Sodium iodate	7681-55-2
Glacial acetic acid	64-19-7

4. First Aid Measures

Eye Exposure:	In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
Dermal Exposure:	In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.
Oral Exposure:	If Swallowing seek immediate medical advice.

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

5. Firefighting Measures

Suitable extinguishing media

Water spray, alcohol-resistant foam, dry chemical, and carbon dioxide extinguishers are suitable.

Unsuitable extinguishing media

No known unsuitable extinguishing media.

Special hazards arising from the substance

Carbon oxides, nitrogen oxides (NO_x)

Advice for firefighters

Wear protective gear, such as self-contained breathing apparatus, if necessary

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Provide suitable ventilation. Use any necessary personal protective equipment. Avoid contact with skin and eyes, and avoid creation and inhalation of vapor or dust. Keep all unnecessary personnel away.

For personal protection see section 8

Environmental precautions

Prevent product from entering public sewers and waterways.

Methods and material for containment and cleaning up

Use inert absorbent material to absorb any spilled or leaked product. Keep in suitable, closed containers for disposal.

For proper disposal see section 13

7. Handling and Storage

Precautions for safe handling

Provide suitable ventilation. Wear any necessary personal protective equipment.

For precautions see section 2

Conditions for safe storage, including any incompatibilities

Storage conditions : Store upright, closed container in arid, ventilated environment. Storage Temperature: 2-8°C Product is sensitive to light.

Incompatible materials : Strong oxidizing agents are incompatible with this product.

8. Exposure Controls/Personal Protection

Control parameters

This product is not known to contain any substances with occupational exposure limit values.

Engineering controls

Follow good industrial hygiene and safety practices when handling product.

Personal protective equipment

Eye/face protection : Use only government-approved safety glasses with side-shields.

Skin protection : Use gloves when handling product. Inspect gloves before use to ensure suitability for use. Remove without exposing skin to the gloves outer surface. Discard used gloves according to all pertinent laws and/or current good practices (cGXP). Wash hands with soap and water.

Body protection : Wear appropriate clothing. Ensure clothing is in good condition, with no holes

or tears. When selecting clothing, consider the concentration and amount of substance to be handled.

Respiratory protection : Use only approved respirators and components which comply with CDC and NIOSH (US) or CEN (EU) regulations. Required only when vapors or aerosols are created.

Control of environmental exposure : Prevent product from entering the environment, especially through public sewers or waterways.

General hygiene considerations : Comply with general industrial hygiene practice guidelines.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State: Liquid

Appearance: Amber. Darkens with age

Odor: weak odor

pH: Not available.

Vapor Pressure: Not available.

Vapor Density: >1.0

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: > 100 deg C

Freezing/Melting Point: > 0 deg C

Decomposition Temperature: Not available.

Solubility: Soluble.

Specific Gravity/Density: Not available.

Molecular Formula: Solution

Molecular Weight: Not available.

10 Stability and Reactivity

Reactivity

No special reactivity is known.

Chemical stability

Product is stable when stored and used as recommended.

Stability note(s)

Avoid exposing the product to light.

Polymerization

No known polymerization.

Possibility of hazardous reactions

No hazardous reactions are known.

Incompatible materials

Strong oxidizing agents are incompatible with this product.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological Information

Routes of entry:

Skin/eye contact, inhalation, and ingestion.

Acute toxicity:

Oral LD50	N/A
Inhalation LC50	N/A
Dermal LD50	N/A
Other information on acute toxicity	N/A
Skin corrosion/irritation	Irritating to skin and mucous membranes
Serious eye damage/eye irritation	Irritating to eyes.
Respiratory or skin sensitization	N/A
Germ cell mutagenicity	N/A

Carcinogenicity:

IARC

Hydrochloric Acid is listed as Group 3 – Not classifiable as to carcinogenicity in humans

NTP

None of the components are listed.

Specific target organ toxicity: N/A

Aspiration hazard: N/A

Potential health effects:

Inhalation: May be irritating to mucous membranes.

Ingestion: While the toxicity of this compound is low, large doses may cause nausea, vomiting, diarrhea.

Skin Contact: Mild skin irritation.

Eye Contact: May be irritating to eyes.

Signs and Symptoms of Exposure:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological Information

Toxicity

No ecological toxicity data available.

Aquatic toxicity

No aquatic toxicity data available.

Persistence and degradability

No persistence/degradability data available.

Bioaccumulative potential

No bioaccumulation data available.

Mobility in soil

No soil mobility data available.

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment is not required/was not conducted.

Other adverse effect

No other adverse effect data available.

13. Disposal Considerations

Product

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult and adhere to local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Packaging

Packaging should be disposed of in the same manner as unused product.

Recommendation

Disposal must be made according to official regulations.

14. Transport Information

DOT (US)

Not a dangerous good under DOT(US) regulations.

IMDG

Not a dangerous good under IMDG regulations.

IATA

Not a dangerous good under IATA regulations.

15. Regulatory Information

Federal and State Regulations:

New York release reporting list: Acetic acid Rhode Island RTK hazardous substances: Acetic acid Pennsylvania RTK: Acetic acid Florida: Acetic acid Minnesota: Acetic acid Massachusetts RTK: Acetic acid New Jersey: Acetic acid TSCA 8(b) inventory: Acetic acid; Water

Other Classifications:

DSCL (EEC):

R25- Toxic if swallowed. R36/38- Irritating to eyes and skin. S1/2- Keep locked up and out of the reach of children. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.):

Health Hazard: 2 Fire Hazard: 0 Reactivity: 0 Personal Protection: J

National Fire Protection Association (U.S.A.):

Health: 1 Flammability: 0 Reactivity: 0

Protective Equipment:

Gloves. Lab coat. Splash goggles.

16. Other Information

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.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

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