

Safety Data Sheet

Effective Date: March 18, 2016

Version: 1.0

Product Name: Ultra High Def™ Hematoxylin

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

1.1 Product identifier

Trade name	Ultra High Def™ Hematoxylin
Cat ##	ACR-027
Components	Aluminum Sulfate, Acetic Acid, Hematoxylin
EC	N/A, 200-580-7, 208-237-3
CAS	7784-31-8, 64-19-7, 517-28-2

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

Liquid in plastic bottle

1.3 Manufactured For:

StatLab Medical Products
 2090 Commerce Drive
 McKinney, TX 75069
 (800) 442-3573
 statlab.com

1.4 Emergency telephone number


Chemtrec: 800-424-9300 (USA & Canada)
 Chemtrec: 703-527-3987 (international)
 Non-transport: 972-436-1010 (USA)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

	Hazard Class	Category	Hazard Statements (for pure substances)
Aluminum Sulfate	N/A	N/A	H318
Acetic Acid	N/A	N/A	H226, H314
Hematoxylin	N/A	N/A	H302 H315 H319

2.2 Label elements

Signal Word	Danger
Pictogram	
H-Statements	N/A
P-Statements	N/A
EUH-Statements	N/A

2.3 Other hazards

N/A

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SECTION 3: Composition/information on ingredients

Name	Identifiers	Classification according to CLP	Classification (for pure substances)
Aluminum Sulfate	EC: N/A CAS:7784-31-8	Concentration: <5%	R41
Acetic Acid	EC: 200-580-7 CAS: 64-19-7	Concentration: <2%	R10, R35
Hematoxylin	EC:208-237-3 CAS:517-28-2	Concentration: >1%	R36/38

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled	Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
If on skin	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
If in eyes	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs
If swallowed	Get medical attention immediately. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Self-protection of the first aider	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
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4.2 Most important symptoms and effects, both acute and delayed

N/A

4.3 Indication of any immediate medical attention and special treatment needed

N/A

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Extinguish using suitable agents
Unsuitable extinguishing media	N/A

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products	Carbon dioxide, Carbon monoxide, Nitrogen oxides
Other information	N/A

5.3 Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Wear protective clothing containing self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Protective equipment	Ensure adequate ventilation Eye Protection: Wear goggles or safety glasses Hand protection: Wear latex or vinyl gloves Other protective equipment: Use lab coat or apron to prevent contact with eyes, skin and clothing
Emergency procedures	N/A
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

6.2 Environmental precautions

Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

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For containment	N/A
For cleaning up	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Other information	N/A

6.4 Reference to other sections

N/A

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire	N/A
Measures to prevent aerosol and dust generation	N/A
Measures to protect the environment	N/A
Advice on general occupational hygiene	Wear personal protective equipment. Ensure adequate ventilation. Do not eat, drink and smoke in areas where this product is handled, stored and processed. Wash hands and face after handling the product. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	Store at 2°C to 8°C
Packaging materials	N/A
Requirements for storage rooms and vessels	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
Storage class	N/A
Other information	N/A

7.3 Specific end use(s)

Recommendations	N/A
Industrial sector specific solutions	N/A

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits	
Product/ingredient name	Exposure limit values
Acetic acid	<p>Notes: list of indicative occupational exposure limit values</p> <p>TWA: 10 ppm 8 hours.</p> <p>TWA: 25 mg/m³ 8 hour</p>

8.2 Exposure controls

Respiratory Protection	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Skin and body protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Eye/face Protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Hygiene Measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the

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	workstation location.
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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Odor	Slight Vinegar odor
Order Threshold	N/A
pH	N/A
Melting Point/ Freezing Point	N/A
Initial Boiling Point/ Freezing Point	N/A
Flash Point	N/A
Evaporation Rate	N/A
Flammability	N/A
Upper/Lower Flammability or Explosive Limits	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Relative Density	N/A
Solubility	N/A
Partition Coefficient: n-octanol/water	N/A
Auto-Ignition Temperature	N/A
Decomposition temperature	N/A
Viscosity	N/A
Explosive Properties	N/A
Oxidizing Properties	N/A

9.2 Other Information

N/A

Section 10: Stability and Reactivity

10.1 Reactivity

N/A

10.2 Chemical Stability

Stable under recommended storage conditions

10.3 Possibility of Hazardous Reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to Avoid

Protect from sunlight.

10.5 Incompatible Materials

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Reactive or incompatible with oxidizing materials and acids

10.6 Hazardous Decomposition Products

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

SECTION 11: Toxicological Information

Aluminum Sulfate (in pure form): LD50 Oral (rat): 5000mg/kg	
Common route of entry	Oral, Dermal, Inhalation
Potential Effects of Acute Exposure	N/A
Potential Effects of Chronic Exposure	N/A
Symptoms of Overexposure	N/A
Acetic Acid (in pure form): LD50 Oral (rat): 3310mg/kg	
Common route of entry	Oral, Dermal, Inhalation
Potential Effects of Acute Exposure	N/A
Potential Effects of Chronic Exposure	N/A
Symptoms of Overexposure	N/A
Hematoxylin (in pure form): LD50 Oral (rat): 400mg/kg	
Common route of entry	Oral, Dermal, Inhalation
Potential Effects of Acute Exposure	N/A
Potential Effects of Chronic Exposure	N/A
Symptoms of Overexposure	N/A

SECTION 12: Ecological Information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Acetic acid	Acute EC50 73400 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 65000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours

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	Acute LC50 75000 µg/l Fresh water	Fish – Lepomis macrochirus	96 hours

12.2 Persistence and Degradability

N/A

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Acetic acid	-0.17	3.16	low

12.4 Mobility in Soil

N/A

12.5 Results of PBT and vPvB Assessment

N/A

12.6 Other Adverse Effects

N/A

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

SECTION 14: Transport Information

14.1 Un Number

N/A

14.2 Un Proper Shipping Name

N/A

14.3 Transport Hazard Class (es)

N/A

14.4 Packing Group

N/A

14.5 Environmental Hazards

N/A

14.6 Special Precautions for User



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Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code

N/A

SECTION 15: Regulatory Information

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

N/A

15.2 Chemical Safety Assessment

N/A

SECTION 16: Other Information

This information is believed to be accurate and represents the best information currently available to StatLab Medical Products. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information of their particular purposes.