

Safety Data Sheet

Hematoxylin, Gill 3X

Revision Date: 01/09/19

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier	Trade name: Hematoxylin, Gill 3X Product code(s): 7014-16, 7014-G
1.2 Relevant identified uses	Laboratory Reagent
Supplier:	Astral Diagnostics Inc. 800-441-0366 Technical Service Monday-Friday: 8:00 -5:00 PM
Synonym:	None.
Material uses:	Laboratory Reagent.
Validation date:	12/11/2013
In case of emergency:	800-424-9300 CHEMTREC (USA) 24 Hours/Day: 7 Days/Week

2. HAZARDS IDENTIFICATION

Emergency Overview:

GHS Label Elements: Pictogram



Signal Word: Warning

Hazard statement(s):

H315: Causes skin irritation (Cat 2)

H319: Causes serious eye irritation

H332: May cause damage to organs through prolonged or repeated exposure if swallowed

Precautionary statement(s):

P280: Wear protective gloves/ eye protection/ face protection.

P305+351+338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

NFPA Rating

Health hazard: 2

Fire: 0

Reactivity Hazard: 0

HMIS Classification

Health hazard: 2

Flammability: 0

Physical hazards: 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS number	% by volume
Water	7732-18-5	73
Hematoxylin	517-28-2	<1
Sodium Iodate	7681-55-2	<1
Ethylene Glycol	107-21-1	25
Aluminum Sulfate	7784-31-8	<6
Acetic Acid	64-19-7	<3

4. FIRST AID MEASURES

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: *Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.*

First-aid measures after skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media: Do not use a heavy water stream

5.2 Special hazards arising from the substance or mixture

No additional information available

5.3 Advice for firefighters

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment: Gloves. Safety glasses. Combined gas/dust mask with filter type B/P3.
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, vapors, spray. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood.

Hygiene measures: Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Comply with applicable regulations.

Storage conditions: Keep container closed when not in use. Protect from sunlight. Store in a well-ventilated place.

Incompatible products: Strong oxidizers. Strong reducing agents. Strong bases.

Incompatible materials: Sources of ignition. Direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Consult local authorities for acceptable exposure limits.

Component	Source	Type	Value	Note
Ethylene glycol	ACGIH	TWA	25 ppm	
	ACGIH	STEL	10 mg/m ³	
	ACGIH	STEL	50 ppm	
Aluminum sulfate	ACGIH	Ceiling	100 mg/m ³	
	OSHA	PEL	2mg/m ³	
	NIOSH	TWA	2 mg/m ³	
Acetic Acid	ACGIH	TWA	10 ppm	
	ACGIH	STEL	15 ppm	
	NIOSH	ST	15 ppm	
	NIOSH	TWA	10ppm 25 mg/m ³	
	OSHA	TWA	10 ppm	

Personal protective equipment: Safety glasses. Gloves. Protective clothing. High gas/vapor concentration: gas mask with filter type B.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or face shield.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Wear appropriate mask. Gas mask with filter type B.

Other information: Do not eat, drink or smoke during use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.

Flash Point: NA

pH: NA

Color: Maroon

Odor: Vinegar odor

Boiling/condensation point: NA

Melting/freezing point: NA
Vapor pressure: NA
Odor threshold: NA
VOC: NA

Relative density: NA
Vapor density: NA
Evaporation rate: NA
Solubility: Soluble in the following materials: water

10. STABILITY AND REACTIVITY

10.1. Reactivity

No further relevant information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal condition of use

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Hazardous decomposition products should not be produced

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Water (7732-18-5)

LD50 oral rat ≥ 90000 mg/kg
ATE US (oral) 90000.000 mg/kg body weight

Ethylene Glycol (107-21-1)

LD50 oral rat > 5000 mg/kg
ATE US (oral) 500 mg/kg

Acetic Acid (64-19-7)

LD50 oral rat 3310 mg/kg
ATE US (oral) 3310 mg/kg

Skin corrosion/irritation: causes skin irritation

Serious eye damage/irritation: causes serious eye irritation

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

12. ECOLOGICAL INFORMATION

Toxicity:

Ethylene Glycol

EC50 Daphnia 1: >10000 mg/l

LC50 fish 2: 40761 mg/l

Persistence and degradability:

Ethylene Glycol

Persistence and degradability: readily biodegradable in water and in soil

Biochemical oxygen demand: 0.47 g O₂/g substance

Chemical oxygen demand: 1.24g O₂/g substance

Acetic Acid

Persistence and degradability: readily biodegradable in water and in soil

Biochemical oxygen demand: 0.6-0.74 g O₂/g substance

Chemical oxygen demand: 1.03g O₂/g substance

ThOD: 1.07 g O₂/g substance

Bioaccumulative potential: no data available

Mobility in soil:

Ethylene Glycol

Surface Tension: 0.048 N/m (20°C)

Acetic Acid

Surface Tension: 0.028 N/m (20°C)

Ecology: may be harmful to plant growth, blooming and fruit formation

PBT and vPvB assessment: no data available

Other adverse effects: no data available

13. DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

15.1 US Federal Regulations

Ethylene Glycol

CERCLA RQ, 5000lb

15.2 International Regulations (WHMIS Classifications)

Ethylene Glycol

Listed on the Canadian DSL

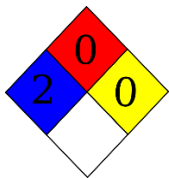
15.3 California Proposition 65



WARNING: This product can expose you to chemicals including Ethylene Glycol, which is known to the State of California to cause birth defects or to the reproductive harm. For more information go to www.P65Warnings.ca.gov

16. OTHER INFORMATION

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



Notice to reader

This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labeling of Chemicals (GHS). To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries makes any warranty of merchantability or any other warranty, expressed or implied, which respect to such information, and we assume no liability resulting from its use. In no event shall Astral Diagnostics, Inc be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages resulting from use of or reliance upon this information.