

## 1. PRODUCT AND COMPANY IDENTIFICATION

**1.1 Product identifier** Trade name: Hematoxylin, Mercury Free  
Product code(s): 7000, 7001, 7004

**1.2 Relevant identified use** Laboratory Reagent

**1.3 Supplier** Company:  
Astral Diagnostics  
1224 Forest Parkway  
Suite 200  
West Deptford, NJ 08066  
Telephone: 856.224.0900

**1.4 Emergency Telephone** CHEMTREC 800.424.9300

## 2. HAZARDS IDENTIFICATION

### 2.2 GHS Label elements, including precautionary statements



**Signal Word: Warning!**

### 2.1 Classification of the substance or mixture

**Hazard statement(s):**

**H312:** Harmful in contact with skin

**H332:** Harmful if inhaled

**H303:** May be harmful 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.

### 2.3 WHMIS Classification

Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).

Class D-2B: Material causing other toxic effects (Toxic).

### 2.4 NFPA Rating

Health hazard: 1  
Fire: 0  
Reactivity Hazard: 0

## Target Organs

?????

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Components	Name	CAS number	% by weight
	Water	7732-18-5	94
	Hematoxylin	517-28-2	<1
	Sodium Iodate	7681-55-2	<1
	Ethanol	64-17-5	<5
	IPA	67-63-0	<1
	Aluminum Ammonium Sulfate	7784-26-1	5

### 4. FIRST AID MEASURES

#### 4.1 General Information

- Eye contact:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin contact:** In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Inhalation:** Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion:** Call medical doctor or poison control center immediately. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

### 5. FIREFIGHTING MEASURES

- 5.1 Extinguishing media:** Use an extinguishing agent suitable for the surrounding fire.
- 5.2 Special hazards:** 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.
- 5.3 Hazardous Products:** Decomposition products may include the following materials:  
Carbon dioxide  
Carbon monoxide  
Nitrogen oxides  
Sulfur oxides  
Metal oxide/oxides
- 5.4 Special protective equipment for fire-fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- 5.5 Special remarks on explosion hazards:** No specific Data

## 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- 6.2 Environmental precaution:** Avoid dispersal of spilled 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 Clean up:** Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

## 7. HANDLING AND STORAGE

- 7.1 Safe Handling:** Do not get in eyes, on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Use empty containers to retain product, residue can be hazardous. Do not reuse container.
- 7.2 Storage:** Store in accordance with local regulations. Store in a segregated and approved area. Store in original container, protected from direct sunlight. Separate from oxidizing materials. 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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control Parameters:** Consult local authorities for acceptable exposure limits.
- 8.2 Engineering measures:** Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.
- 8.3 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 workstation location.
- 8.4 Personal protection**
- Respiratory:** 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.

**Hands:** 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. Recommended: neoprene

**Eyes:** 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 or dusts. Recommended: splash goggles

**Skin:** 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. Recommended: lab coat

**8.5 Environmental exposure controls:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Physical state:</b>	Liquid.	<b>Color:</b>	Maroon
<b>Flash Point:</b>	Not available	<b>Odor:</b>	Characteristic (slight)
<b>pH:</b>	Not available.	<b>Boiling/condensation point:</b>	Not available
<b>Melting/freezing point:</b>	Not available	<b>Relative density:</b>	Not available
<b>Vapor pressure:</b>	Not available	<b>Vapor density:</b>	Not available
<b>Volatility:</b>	5% (v/v)	<b>Odor threshold:</b>	Not available
<b>Evaporation rate:</b>	0.36 Water (butyl acetate=1)	<b>VOC:</b>	5%
<b>Solubility:</b>	Soluble in water.		

## 10. STABILITY AND REACTIVITY

**10.1 Chemical stability:** The product is stable.

**10.2 Possibility of hazardous reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.

**10.3 Hazardous polymerization:** Under normal conditions of storage and use, hazardous polymerization will not occur.

**10.4 Conditions to avoid:** No specific data.

**10.5 Materials to avoid:** Reactive or incompatible with the following materials: oxidizing materials reducing materials and acids.

**10.6 Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not occur.

## 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

### Acute Toxicity

<b>Oral LD50:</b>	no data available
<b>Inhalation LC50:</b>	no data available
<b>Dermal LD50:</b>	no data available
<b>Other information on acute toxicity:</b>	no data available
<b>Skin corrosion/irritation:</b>	no data available
<b>Serious eye damage/eye irritation:</b>	no data available
<b>Respiratory or skin sensitization:</b>	no data available
<b>Germ cell mutagenicity:</b>	no data available
<b>Specific target organ toxicity, single exposure (Globally Harmonized System):</b>	no data available
<b>Specific target organ toxicity, repeated exposure (Globally Harmonized System):</b>	no data available
<b>Aspiration hazard:</b>	no data available

## 11.2 Potential Health Effects

**Inhalation:** Toxic if inhaled. Causes respiratory tract irritation.

**Ingestion:** Toxic if swallowed.

**Skin:** Toxic if absorbed through skin. Causes skin irritation.

**Eyes:** Causes eye irritation.

## 11.2 Signs and Symptoms of Exposure

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

## 12. ECOLOGICAL INFORMATION

### 12.1 Data:

**Toxicity:** No data available

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** No data available

## 13. DISPOSAL CONSIDERATIONS

**13.1 Methods:** 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, local laws and regulations.

## 14. TRANSPORT INFORMATION

### Land Transport DOT (US)

Not regulated

## 15. REGULATORY INFORMATION

### United States

**HCS Classification:** Not regulated

**U.S. Federal regulations:** **TSCA 8(a) IUR:** Not determined  
**United States inventory (TSCA 8b):**  
All components are listed or exempted.

**SARA 302/304/311/312 extremely hazardous substances:** No products were found.  
**SARA 302/304 emergency planning and notification:** No products were found.  
**SARA 302/304/311/312 hazardous chemicals:** Methanol  
**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:**  
 Ethanol  
 Clean Water Act (CWA) 307: No products were found.  
 Clean Water Act (CWA) 311: No products were found.  
**Clean Air Act (CAA) 112 accidental release prevention:** No products were found.  
 Clean Air Act (CAA) 112 regulated flammable substances: No products were found.  
 Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

**DEA List I & II Chemicals (Precursor Chemicals):** Not listed

**Connecticut Carcinogen Reporting:** None of the components are listed.  
**Connecticut Hazardous Material Survey:** None of the components are listed.  
**Florida substances:** None of the components are listed.  
**Illinois Chemical Safety Act:** None of the components are listed.  
**Illinois Toxic Substances Disclosure to Employee Act:** None of the components are listed.  
**Louisiana Spill:** None of the components are listed.  
**Louisiana Reporting:** None of the components are listed.  
**Massachusetts Spill:** None of the components are listed.  
**Massachusetts Substances:** None of the components are listed.  
**Minnesota Hazardous Substances:** The following component is listed: Ethyl Alcohol  
**Michigan Critical Material:** None of the components are listed.  
**NJ Toxic Catastrophe Prevention Act:** None of the components are listed.  
**New Jersey Spill:** None of the components are listed.  
**New Jersey Hazardous Substances:** The following component is listed: Ethyl. Alcohol  
**NY Toxic Chemical Release Reporting:** None of the components are listed.  
**New York Acutely Hazardous Substances:** None of the components are listed.  
**Pennsylvania RTK Hazardous Substances:** The following component is listed: Denatured Alcohol  
**Rhode Island Hazardous Substances:** None of the components are listed.

**WHMIS (Canada):** Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).  
 Class D-2B: Material causing other toxic effects (Toxic).

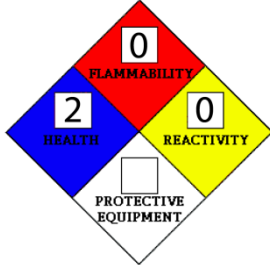
**Canadian lists:**  
**CEPA Toxic substances:** None of the components are listed.  
**Canadian ARET:** None of the components are listed.  
**Canadian NPRI:** The following component is listed: Ethyl Alcohol  
**Alberta Designated Substances:** None of the components are listed.  
**Ontario Designated Substances:** None of the components are listed.  
**Quebec Designated Substances:** None of the components are listed.

**CEPA DSL / CEPA NDSL:** All components are listed or exempted.

**International regulations**

**International lists:**  
**Australia inventory (AICS):** All components are listed or exempted.  
**China inventory (IECSC):** All components are listed or exempted.  
**Japan inventory:** Not determined.  
**Korea inventory:** Not determined.  
**New Zealand Inventory of Chemicals (NZIoC):** All components are listed or exempted.  
**Philippines inventory (PICCS):** All components are listed or exempted.

## 16. OTHER INFORMATION



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

### Disclaimer

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Astral Diagnostics and its Affiliates shall not be liable for any damage resulting from handling.