Safety Data Sheet

Sternheimer-Malbin Stain

Revision Date: 01/17/19

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Trade name: Sternheimer-Malbin Stain
Urinary Sediment Stain
Product code(s): 6561-01, 6561-02, 6561-04, 6561-15, 6561-32

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):

H226: Flammable liquid (category 3)
H316: Causes mild skin irritation
H319: Causes serious eye irritation
H412: May cause long lasting harmful effects to aquatic life

Precautionary statement(s):

P260: Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
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	HMIS Classification
Health hazard: 2	Health hazard: 2
Fire: 2	Flammability: 2
Reactivity Hazard: 0	Physical hazards: 0

Potential Health Effects : Inhalation – May cause respiratory tract irritation.
Skin - May cause skin irritation.
Eyes – May cause eye irritation.
Ingestion – Potentially toxic if swallowed in large quantities.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS number	% by volume
Ethanol	64-17-5	~10
Isopropyl Alcohol	67-63-0	<1
Crystal Violet	17372-87-1	<1
Ammonium Oxalate	6009-70-7	<1
Safranin	477-73-6	<1
Water	7732-18-5	Balance

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
Ethanol Solution	ACGH	STEL	1000 ppm 15 min	
	OSHA	PEL (TWA)	1000 ppm 8 hours	
	NIOSH	REL (TWA)	1000 ppm 10 hours	
Isopropyl Alcohol	ACGIH	TWA	200 ppm	
	ACGIH	STEL	400 ppm	
	NIOSH	TWA	980 mg/m3, 400 ppm	
	OSHA	TWA	980 mg/m3, 400 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.
Color: Purple
Flash Point: NA
Odor: Characteristic

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

Boiling/condensation point: 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
Not established.
10.4. Conditions to avoid
Extremely high or low temperatures.
10.5. Incompatible materials
Strong oxidizers. Strong acids.
10.6. Hazardous decomposition products
Carbon monoxide. Carbon dioxide. Nitrogen Oxides. Ammonia

11. TOXICOLOGICAL INFORMATION

Water (7732-18-5)
LD50 oral rat ≥ 90000 mg/kg
ATE US (oral) 90000.000 mg/kg body weight

Ethanol (64-17-5)
LD50 Oral rat 3450 mg/kg (mouse)
LC50 Inhalation rat 20000 ppm/10H

Isopropyl Alcohol (67-63-0)
LC50 inhalation rat (mg/l) 73 mg/l (4hr)
LD50 Dermal rabbit 12870 mg/kg
ATE US oral 5045 mg/kg body weight
ATE US dermal 12870 mg/kg body weight

Ammonium Oxalate
ATE US oral 500 mg/kg
ATE US dermal 1100 mg/kg

Skin corrosion/irritation: Not classified
Serious eye damage/irritation: causes serious eye irritation
Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not Classified

12. ECOLOGICAL INFORMATION

Toxicity:
Ethanol
LC50 fish 14200 mg/l

Isopropyl Alcohol
LC50 fish 2 9640 mg/l

EC50 Daphnia 2 13299 mg/l

Persistence and degradability:
Ethanol
BOD 0.8-0.967 gO2/g
COD 1.7 gO2/g
ThOD 2.1 g)2/g

Isopropyl Alcohol
BOD 1.19 gO2/g
COD 2.23 gO2/g
ThOd 2.4 gO2/g

Bioaccumulative potential:
Ethanol
BCF fish 1 1
Log Pow -0.31

Isopropyl Alcohol
Log Pow 0.05

Mobility in soil:
Ethanol
Surface tension 0.022 N/m

Isopropyl Alcohol
Surface tension 0.021 N/m

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 Regulated

15. REGULATORY INFORMATION

15.1 US Federal Regulations
All components are listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2 International Regulations
All components are listed on the Canadian DSL (Domestic Substances List)
15.3 US State regulations
California Proposition 65

This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

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.