HURST SCIENTIFIC

Safety Data Sheet
Leishman's Stain

SECTION 1: Identification

1.1 GHS Product identifier

Product name	Leishman's Stain
Product number	LESH-1L
Brand	Hurstchem

1.3 Recommended use of the chemical and restrictions on use

Laboratory Reagent

1.4 Supplier's details

Name	Hurst Scientific
Address	2 Transit Place 6112 Forrestdale WA Australia
Telephone	1300 778 068
email	sales@hurstscientific.com.au

1.5 Emergency phone number

Australian Poisons Information Centre 131 126
Australian Emergency Services 000

SECTION 2: Hazard identification

General hazard statement
Classified as a Hazardous substance according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as a Dangerous goods according to the ADG Code for the Transport of Dangerous Goods by Road and Rail (7th Edition).

2.1 Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Acute toxicity, dermal, Cat. 3
- Acute toxicity, inhalation, Cat. 3
- Acute toxicity, oral, Cat. 3
- Specific target organ toxicity following single exposure, Cat. 1
- Flammable liquids, Cat. 2

2.2 GHS label elements, including precautionary statements

Pictograms

1. Skull and crossbones; 2. Health hazard; 3. Flame

Signal word **Danger**

Hazard statement(s)

H225	Highly flammable liquid and vapor
H301	Toxic if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled
H370	Causes damage to organs [organs, route]

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting/...] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash … thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P302+P352	IF ON SKIN: Wash with plenty of water/...
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor/...
P311	Call a POISON CENTER/doctor/...
P312	Call a POISON CENTER/doctor/... if you feel unwell.
P321	Specific treatment (see … on this label).
P330	Rinse mouth.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use … to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to …

SECTION 3: Composition/information on ingredients

3.1 Substances

Hazardous components

Component	CAS no.	Concentration
Methanol	67-56-1	99 %
Leishman's stain	12627-53-1	1 %

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled	Remove person to fresh air and keep comfortable for breathing. If unconscious, place in the recovery position and ensure airway is clear. Provide artificial respiration if breathing has stopped. Seek medical advice/attention.
In case of skin contact	Remove contaminated clothing and footwear. Rinse affected skin with water and wash thoroughly with soap and water. If irritation, redness, pain or other symptoms occur, seek medical advice/attention.
In case of eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention.
If swallowed	DO NOT induce vomiting. If the person is conscious, give small amounts of water to drink. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

4.2 Most important symptoms/effects, acute and delayed
Symptoms may include irritation to the eyes, skin and respiratory tract. Prolonged or repeated exposure may result in more pronounced effects depending on the nature and concentration of the substance.

4.3 Indication of immediate medical attention and special treatment needed, if necessary
Treat symptomatically. Ensure that medical personnel are aware of the material involved and take precautions to protect themselves.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media
Use carbon dioxide (CO_2), dry chemical powder, alcohol-resistant foam or water spray/fog. Use extinguishing media appropriate to surrounding fire conditions.

5.2 Specific hazards arising from the chemical
Flammable liquid and vapour. Vapours may form explosive mixtures with air and may travel to a source of ignition and flash back. Hazardous combustion products may include oxides of carbon and other toxic gases.

5.3 Special protective actions for fire-fighters
Highly flammable liquid. Eliminate all ignition sources and evacuate the area if safe to do so. Fire-fighters should wear self-contained breathing apparatus (SCBA) and full protective equipment. Use water spray to cool unopened containers exposed to fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Eliminate all sources of ignition and take precautionary measures against static discharge. Evacuate area of unprotected personnel. Wear appropriate personal protective equipment as specified in Section 8. Avoid breathing vapours, mists or aerosols.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Prevent product from entering drains, waterways or soil. Notify relevant authorities if contamination of the environment occurs.

6.3 Methods and materials for containment and cleaning up
Contain the spill and absorb with inert, non-combustible material (e.g. vermiculite, sand, earth). Place collected material into a suitably labelled container for disposal. Dispose of waste in accordance with local authority guidelines. Clean contaminated surfaces with water and detergent where appropriate.

Reference to other sections
See Section 8 for personal protective equipment and Section 13 for disposal considerations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Use in accordance with good industrial hygiene and safety practice. Avoid breathing vapours, mists or aerosols and avoid contact with skin and eyes. Use only in adequately ventilated areas. Keep away from sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities
Store in a cool, dry, well-ventilated area. Keep container tightly closed when not in use. Protect from heat, sparks, open flames and direct sunlight. Store away from incompatible materials. Inspect containers regularly for damage or leaks. Refer to Section 10 for incompatible materials.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

CAS: 67-56-1
Methanol
AU/SWA (AU): 250 ppm; 328 mg/m3 STEL inhalation [Methyl alcohol]; 200 ppm; 262 mg/m3 TWA inhalation [Methyl alcohol]

8.2 Appropriate engineering controls
Ensure adequate ventilation to maintain airborne concentrations below national exposure standards. Ventilation is required, whether natural or manual exhaust system is needed to keep levels below exposure limits.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection
Safety glasses or splash-proof goggles.

Skin protection
Rubber, nitrile or neoprene gloves and laboratory coat.

Respiratory protection
Recommended mask/respirator in high-risk situations.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	clear,colourless liquid with mild alcohol like odour
Color	Clear
Odor	alcohol-like
Melting point/freezing point	-98 °C
Boiling point or initial boiling point and boiling range	64.7 °C
Flammability	
Lower and upper explosion limit/flammability limit	Upper explosion limit: 36 %(V) Lower explosion limit: 6 %(V)
Flash point	9.7 °C
Auto-ignition temperature	
Decomposition temperature	
pH	

Kinematic viscosity	
Solubility	
Partition coefficient n-octanol/water (log value)	
Vapor pressure	130.3 hPa (97.7 mmHg) at 20.0 °C
Density and/or relative density	0.791
Relative vapor density	

SECTION 10: Stability and reactivity

10.1 Reactivity
Non-reactive and stable under recommended conditions for use and storage.

10.2 Chemical stability
Non-reactive and stable under recommended conditions for use and storage.

10.4 Conditions to avoid
Heat, sparks, open flames, direct sunlight and other sources of ignition.

10.5 Incompatible materials
Oxidizing agents, Acid anhydrides, Aluminium, Halogenated compounds, Acids

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Methanol
LD50 Oral - Rat - 1,187 - 2,769 mg/kg
LD50 Skin - Rabbit - 17,100 mg/kg
LD50 Inhalation - Rat - 128.2 mg/l - 4 h

Skin corrosion/irritation
May cause irritation, resulting in redness, rash, itchiness and dermatitis.

Serious eye damage/irritation
Can cause irritation, resulting in lacrimation, pain and redness.

Respiratory or skin sensitization
Irritation to the mucous membranes of the respiratory system, nose and throat can occur. Results can include coughing and headache.

Germ cell mutagenicity
No evidence of mutagenic properties.

Carcinogenicity
Group 3 - Not classifiable as to carcinogenicity to humans.

Reproductive toxicity
Not classified based on available information.

Specific target organ toxicity (STOT) - single exposure
May cause irritation to the upper respiratory tract and may cause headache and coughing. High level exposure may result in drowsiness or dizziness.

Specific target organ toxicity (STOT) - repeated exposure
Not classified based on available information.

Aspiration hazard
Not classified based on available information.

SECTION 12: Ecological information

Toxicity
Not classified.

Persistence and degradability
Readily biodegradable.

Mobility in soil
No information available.

SECTION 13: Disposal considerations

Disposal methods

Product disposal
Dispose of in accordance with local authority guidelines.

Packaging disposal
Dispose of in accordance with local authority guidelines.

Waste treatment
Dispose of in accordance with local authority guidelines.

Sewage disposal
DO NOT contaminate drains and waterways.

SECTION 14: Transport information

DOT (US)
UN number: 1230
Class: 3
Packing group: II
Proper shipping name: Methanol - Leishman Stain

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Australian Inventory of Industrial Chemicals
Chemical name: Methanol, [1,2-ethanediylbis(oxy)]bis-
CAS number: 3586-55-8, CR number: 8225

Australian Inventory of Industrial Chemicals
Chemical name: Leishman's stain
CAS number: 12627-53-1, CR number: 13294

Australian Inventory of Industrial Chemicals
Chemical name: Methanol
CAS number: 67-56-1, CR number: 756

SECTION 16: Other information

16.1 Further information/disclaimer

This SDS is prepared in accordance with the Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals
Code of Practice, (2011). The information contained within is believed to be accurate at the date of preparation/review. Hurst
Scientific makes no claims of the accuracy or completeness of the information and excludes all liability for any loss or damage
related to the supply or use of the information in this material safety data sheet. It is recommended the user make their own
determinations as to the suitability of the information provided to the application in which the product is to be used.

16.2 Preparation information

References

1. Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011).
2. Safe Work Australia, National Code of Practice for the Labelling of Workplace Hazardous Chemicals (2015).
3. Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants (2013)
4. National Transport Commission Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code); Canprint: Canberra (2007), Volume 1, 7th Edition.
5. Standards Australia, Dangerous Goods Initial Emergency Response Guide: Australian Handbook (SAA/SNZ HB76); Homebush (2004).