



## HURST SCIENTIFIC

### Safety Data Sheet Eosin Alcoholic with Phloxine

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#### SECTION 1: Identification

##### 1.1 GHS Product identifier

Product name Eosin Alcoholic with Phloxine  
Product number EOSPRBH-500M, 1L, 2.5L, 5L, 10L & 20L  
Brand Hurstchem

##### 1.2 Other means of identification Eosin with Phloxine

##### 1.3 Recommended use of the chemical and restrictions on use Laboratory Reagent

##### 1.4 Supplier's details

Name Hurst Scientific  
Address 2/36 Hensbrook Loop  
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

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#### SECTION 2: Hazard identification

##### General hazard statement

Classified as a **Hazardous** substance according to the Globally Harmonized 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

- Flammable liquids, Cat. 2
- Eye damage/irritation, Cat. 2A

##### 2.2 GHS label elements, including precautionary statements

Pictograms.



1. Flame; 2. Exclamation mark

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Signal word **Danger**

### Hazard statement(s)

H225 - Highly flammable liquid and vapor.

H302 - Harmful if swallowed.

H319 – Causes serious eye irritation.

### Precautionary Statement (s):

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P233 Keep container tightly closed.

P243 Take precautionary measures against static discharge.

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

P264 Wash skin thoroughly after handling.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P370 + P378 In case of fire: Use extinguishing media as outlined in Section 5 of this Safety Data Sheet.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P403 + P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local authority guidelines.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical Name	CAS Number	Concentration
Ethanol	64-17-5	Remainder
Eosin	17372-87-1	<5%
Acetic Acid	64-19-7	<1%
Phloxine B	18472-87-2	<1%
Aluminum Ammonium Sulfate Dodecahydrate	7784-26-1	<1%
Water	7732-18-5	<10%

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## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

If inhaled	Evacuate to fresh air immediately. If unconscious place in recovery position, provide artificial respiration if breathing ceases. Seek immediate medical attention.
In case of skin contact	Remove contaminated clothing and wash affected area with soap and water thoroughly and rinse with Methylated Spirits. Seek medical attention immediately.
In case of eye contact	Flush eyes with copious amounts of water for at least 15 minutes. Seek immediate medical attention.
If swallowed	DO NOT induce vomiting. Rinse mouth thoroughly with water. Seek immediate medical attention.
Personal protective equipment for first-aid responders	Eye wash station, safety shower and First Aid kit.

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### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically and in accordance with narcotic intoxication.

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## SECTION 5: Fire-fighting measures

5.1	Suitable extinguishing media	Water fog or foam, keep containers cool with water spray.
5.2	Specific hazards arising from the chemical	Toxic gases may evolve.
5.3	Special protective actions for fire-fighters	Highly flammable liquid, contain spill and wear full fire kit and breathing apparatus.
5.4	Hazchem code	2YE

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment, and emergency procedures

Eliminate all sources of ignition and take measures to prevent static discharge. Wear appropriate protective clothing. Ensure adequate ventilation. If possible, contain the spill. Evacuate all unnecessary personnel.

### 6.3 Methods and materials for containment and cleaning up.

Absorb with vermiculite or similar and place into a suitably labelled container. Dispose of waste according to local authority guidelines. Wash the affected area with a large volume of water. Do not contaminate drains or waterways.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Use only in an adequately ventilated area away from all sources of ignition. Avoid breathing in mists or vapours. Wear appropriate protective clothing to avoid any exposure and practice good personal hygiene.

### 7.2 Conditions for safe storage, including any incompatibilities.

Store in tightly closed containers in a cool, dry environment away from sources of ignition and check regularly for leaks.

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## SECTION 8: Exposure controls/personal protection

### National exposure standards

Ethanol: [TWA]: 1880mg/m<sup>3</sup>, 1000ppm  
Acetic Acid (100%): [TWA] 10ppm, 25mg/m<sup>3</sup>  
[STEL] 15ppm, 37mg/m<sup>3</sup>

### Biological Limit Values

### Engineering Controls

Not available for this mixture.

### Personal Protective Equipment

Ensure adequate ventilation to maintain airborne concentrations below national exposure standards.

Safety glasses or goggles, chemical-resistant gloves, and laboratory coat. If working within a confined area always use a suitable respirator.

### Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirators when necessary.

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## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

Appearance	Bright red liquid
Color	Bright red
Odor	Not evident
Melting point/freezing point	-117°C
Boiling point or initial boiling point and boiling range	78°C
Flammability	Highly Flammable
Flash point	12°C
pH	N/A
Solubility	In all portions
Vapor pressure	59hPa @20°C

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Density and/or relative density	N/A
Relative vapor density	N/A

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## SECTION 10: Stability and reactivity

<b>Reactivity</b>	Non-reactive under recommended conditions for use and storage.
<b>Chemical stability</b>	Stable under recommended conditions for use and storage.
<b>Conditions to avoid</b>	Heat, sparks, flame, and build-up of static
<b>electricity. Incompatible materials</b>	Strong alkalis, acids, nitrates, and oxidizing agents.
<b>Hazardous decomposition products</b>	Toxic gases may be emitted.
<b>Hazardous reactions</b>	Polymerization will not occur.

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## SECTION 11: Toxicological information

### HEALTH EFFECTS:

<b>Eye Contact</b>	Vapor may irritate eyes, liquid and mists may severely irritate and damage the optic nerve.
<b>Skin Contact</b>	Skin contact may lead to slight irritation and/or redness.
<b>Inhalation</b>	Vapor is moderately irritating to the mucous membranes and respiratory tract. Caution, inhalation of the vapor may result in drunkenness, headache, nausea, Incoordination, narcosis and vomiting.
<b>Ingestion</b>	Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain, diarrhoea, headache, dizziness, and drowsiness with large doses.
<b>Skin Corrosion / Irritation</b>	No classification.
<b>Serious Eye Damage / Irritation</b>	Reversible effects to eyes.
<b>Respiratory or Skin Sensitization</b>	No classification.
<b>Germ Cell Mutagenicity</b>	No classification.
<b>Carcinogenicity</b>	No classification.
<b>Reproductive Toxicity</b>	No classification.
<b>Specific Target Organ Toxicity (STOT) – Single Exposure</b>	No classification.
<b>Specific Target Organ Toxicity (STOT) – Repeated Exposure</b>	No classification.
<b>Aspiration Hazard</b>	No classification.

### TOXICITY:

Ethanol: LD50: (Oral, Rat) 7060mg/kg  
LC50/4h (Inhalation, Rat) 3.8 mg l-1 h-1  
Acetic Acid: LD50 (Oral, Rat) 3310 mg/kg  
LD50 (Dermal, Rabbit) 1060mg/kg

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## SECTION 12: Ecological information

<b>Toxicity</b>	Not available.
<b>Persistence and degradability</b>	Not available.
<b>Bioaccumulate potential</b>	Not expected to bio-accumulate.
<b>Mobility in soil</b>	Not available.
<b>Other adverse effects</b>	Environmental fate (exposure) Do not contaminate drains and waterways. May cause long term effects to the aquatic environment.

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## **SECTION 13: Disposal considerations**

### **Product disposal**

Dispose of material via a licensed contractor and in accordance with local authority guidelines.

### **Other disposal recommendations**

Special precautions Nil.

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## **SECTION 14: Transport information**

Classified as **Dangerous goods** by the criteria of the Australian Dangerous Goods Code.

<b>UN Number</b>	1170
<b>UN Proper shipping name</b>	Ethanol (Ethanol solution)
<b>Class and subsidiary risk</b>	3
<b>Packing group</b>	II
<b>Special precautions</b>	Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidizing agents (Class 5.1), organic peroxides (Class 5.2), toxic substances (Class 6.1), infectious substances (Class 6.2) or radioactive substances (Class 7). Exemptions may apply.
<b>Hazchem code</b>	2YE

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## **SECTION 15: Regulatory information**

### **15.2 Chemical Safety Assessment**

- **TWA (Time Weighted Average):** The average airborne concentration of a particular substance when calculated over a normal eight hour working day, for a five-day week.
- **STEL (Short Term Exposure Limit):** The average airborne concentration over a 15-minute period, which should not be exceeded at any time during a normal eight-hour workday.

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## **SECTION 16: Other information**

### **16.1 Further information/disclaimer**

#### **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); Can print: Canberra (2007), Volume 1, 7th Edition.
5. Standards Australia, Dangerous Goods Initial Emergency Response Guide: Australian Handbook (SAA/SNZ HB76); Homebush (2004).

### **16.2 Preparation 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.

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