

SAFETY DATA SHEET

Rankine Indicator

Classified as *Hazardous* according to criteria of the GHS

1. Product and Company Information

PRODUCT NAME: Rankine Indicator
OTHER NAMES: none
PRODUCT NUMBER: 111110
RECOMMENDED USE: Indicator in wine analysis
SUPPLIER DETAILS: AIM Scientific; 274 Prospect Rd, Prospect SA 5082; phone (08) 8342 5870, fax (08) 8342 5801
EMERGENCY PHONE NUMBER: 131126 (Poisons Information Centre)

2. Hazards Identification

GHS CLASSIFICATION: Flammable liquid (Category 2)
Serious eye damage/eye irritation (Category 2)

PICTOGRAM:



SIGNAL WORD: **Danger**

HAZARDS STATEMENTS:

H225 – Highly flammable liquid and vapour
H319 – Causes serious eye irritation

PRECAUTIONARY STATEMENTS:

P210 – Keep away from heat/sparks/open flames/hot surfaces.
P233 – Keep container tightly closed.
P240 – Ground/Bond container and receiving equipment.
P241 – Use explosion-proof electrical/ventilating/lighting/equipment.
P280 – Wear protective gloves/eye protection/face protection.
P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
P370 + P378 – In case of fire: Use dry sand/dry chemical or alcohol-resistant foam for extinction.
P403 + P235 – Store in a well-ventilated place. Keep cool.
P501 – Dispose of contents/container to an approved waste disposal plant.

3. Composition / Information on Ingredients

INGREDIENT NAME	CAS-NO.	PROPORTION
Ethanol	64-17-5	40 – 50 %
Methyl red, sodium salt	845-10-3	< 1 %
Methylene blue	122965-43-9	< 1 %
Water	7732-18-5	48 – 60 %

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4. First Aid Measures

GENERAL ADVICE: Consult a physician. Show this safety data sheet to the doctor in attendance.

IF INHALED: Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.

IN CASE OF SKIN CONTACT: First rinse with plenty of soap and water, then remove contaminated clothes, rinse again. If irritation occurs seek medical advice.

IN CASE OF EYE CONTACT: Immediately irrigate with copious quantity of lukewarm water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance.

IF SWALLOWED: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek immediate medical assistance.

5. Fire Fighting Measures

EXTINGUISHING MEDIA: Flammable. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

SPECIAL HAZARDS: Emits carbon oxides under fire conditions.

EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Hazchem-Code: 2Y

6. Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

ENVIRONMENTAL PRECAUTIONS: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

7. Handling and Storage

PRECAUTIONS FOR SAFE HANDLING: Do not breathe vapour/mist. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Keep away from sources of ignition – do not smoke. Take measures to prevent the build up of electrostatic charge.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Store in cool place. Store out of direct sunlight. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. Exposure Controls / Personal Protection

OCCUPATIONAL EXPOSURE LIMITS:

Component	CAS-No.	Value	Control Param.	Basis
Ethanol	64-17-5	TWA	1,000 ppm 1,880 mg/m ³	Australia, Workplace Exposure Standards for Airborne Contaminants

ENGINEERING CONTROLS: Have safety shower and eye bath available. Use only in a well-ventilated area or in a chemical fume hood.

PERSONAL PROTECTIVE EQUIPMENT: Compatible chemical-resistant gloves, chemical safety goggles or face-shield.

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9. Physical and Chemical Properties

APPEARANCE:	dark green liquid
ODOUR:	alcohol odour
pH:	not applicable
MELTING POINT/RANGE:	no data available
BOILING POINT/RANGE:	78°C – 100°C
FLASH POINT:	no data
FLAMMABILITY:	flammable
VAPOUR PRESSURE:	n/a
SG / DENSITY:	< 1
SOLUBILITY:	completely soluble in water

10. Stability and Reactivity

REACTIVITY:	no data available
CHEMICAL STABILITY:	stable
POSSIBILITY OF HAZARDOUS REACTIONS:	no data available
CONDITIONS TO AVOID:	heat, open flames.
INCOMPATIBLE MATERIALS:	oxidising agents, peroxides.
HAZARDOUS DECOMPOSITION PRODUCTS:	no data available.

11. Toxicological Information

ACUTE TOXICITY:	LD50 oral – rat: 10,470 mg/kg (ethanol).
SKIN CORROSION/IRRITATION:	Skin - rabbit: no skin irritation - 24 h (ethanol).
SERIOUS EYE DAMAGE/IRRITATION:	Eyes - rabbit: moderate eye irritation (ethanol).
RESPIRATORY OR SKIN SENSITISATION:	No data available.
GERM CELL MUTAGENICITY:	No data available.
CARCINOGENICITY:	No data available.
REPRODUCTIVE TOXICITY:	No data available.
SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:	No data available.
SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE:	No data available.
ADDITIONAL INFORMATION:	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

12. Ecological Information

ECOTOXICITY:	LC50 - fish (fathead minnow): 14,200 mg/L - 96 h (ethanol).
PERSISTENCE AND DEGRADABILITY:	Readily biodegradable (ethanol).
BIOACCUMULATIVE POTENTIAL:	No data available.
MOBILITY IN SOIL:	No data available.
OTHER ADVERSE EFFECTS:	No data available.

13. Disposal Considerations

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

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14. Transport Information

UN-NUMBER: 1993

PROPER SHIPPING NAME: Flammable liquid, N.O.S.

DG-CLASS: 3

PACKAGING GROUP: III

ENVIRONMENTAL HAZARDS: no

SPECIAL PRECAUTIONS FOR USER: no data available

ADDITIONAL INFORMATION: none

HAZCHEM CODE: 2Y

15. Regulatory Information

STANDARD FOR THE UNIFORM SCHEDULING OF MEDICINES AND POISONS: Not listed.

16. Other Information

The health and safety hazard information in this Material Data Safety Sheet is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Handling, storage, use and disposal of the product are beyond our control. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss or damage arising out of, or in any way connected with the handling, storage, use or disposal of the product. The customer assumes all liability arising from the use of the product for any application and for the suitability for the intended use. This SDS is to be used only for this product. Contact the supplier for further information about the product.

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