

AUSTRALIAN CHEMICAL REAGENTS
SAFETY DATA SHEET

Date Prepared: September 2023
Version No: 2

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Iodine Solution - Strong (10% Iodine in Ethanol)
Product Code: 3176
Other Names: Nil
Uses: Indicator solution

Supplier: Australian Chemical Reagents
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1. HAZARDS INFORMATION

GHS Classification

Flammable Liquids: Category 2
Serious Eye Damage/Irritation: Category 2A

**Signal Word(s)
Pictogram(s)**

DANGER

**Hazard Statement(s)**

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

**Precautionary Statement(s)
Preventative**

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.
P242 Use only non-sparking tools.
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

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

P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P363 Wash contaminated clothing before reuse.
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 water spray, carbon dioxide or dry chemical for extinction.

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients :

Chemical Entity	CAS No	Proportion
Iodine	[1787-61-7]	10%
Ethanol	[64-17-5]	90%

4. FIRST AID MEASURES

Safety showers and eye wash facilities should be provided.

Swallowed :

If conscious wash out mouth with water. Do NOT induce vomiting. Seek medical advice. Show this SDS to medical practitioner.

Eye :

Immediately hold eyelids open and flood with water for at least 15 minutes. Obtain medical aid. Show this SDS to medical practitioner.

Skin :

Remove contaminated clothing. Immediately wash skin thoroughly with water and mild soap. Seek medical advice if irritation persists. Show this SDS to medical practitioner. Launder clothing before reuse.

Inhaled :

Remove from contaminated air. Maintain breathing with artificial respiration if necessary. Seek medical assistance. Show this SDS to a doctor.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Hazards From Combustion Products:

Decomposition products include carbon monoxide.

Precautions For Fire Fighters and Special Protective Equipment:

Fire fighters and others who may be exposed to combustion products during fire should wear full protective clothing including positive pressure self-contained breathing apparatus (SCBA). Wear SCBA with full face-piece, operated in positive pressure mode when fighting fires.

Hazchem Code: •3YE

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:

Prevent from entering waterways. Isolate ignition sources. No smoking. Restrict access to area. Ventilate area. Remove chemicals that can react with the spilled material.

Methods and materials for containment and clean up:

Use inert material such as sand or earth to contain spill or leak. Absorb spills with chemical absorber or vermiculite and dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

Conditions for Safe Storage:

Store sealed in original container in a cool well ventilated situation away from foods and other chemicals. Do not store in direct sunlight. Refer to AS 1940 - *The storage and handling of flammable and combustible liquids* for storage procedures. Do not store in direct sunlight. Observe good hygiene and housekeeping practices.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards:

Safe Work Australia – Ethanol 1880mg/m³ TWA

Biological Limit Values: No data available.

Engineering Controls:

Not required with normal use. If mists are likely to be generated maintain atmospheric concentrations to minimal concentrations with flame proof extraction ventilation.

Personal Protective Equipment (PPE):

The use of nitrile or neoprene gloves complying with AS 2161 and the use of faceshield, chemical goggles or safety glasses with side shield protection complying with AS/NZS 1337 is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	Dark brown liquid
Odour:	Characteristic iodine odour
pH:	Not applicable
Boiling Point (°C) :	Approx 78°
Freezing/melting Point:	Not applicable
Vapour Pressure (mm of Hg @ 25°C) :	Not applicable
Vapour Density:	Not applicable
Specific Gravity :	0.81
Flash Point (°C) :	9
Flammability Limits (%) :	LEL 3.5 UEL 190
Solubility in Water (g/L) :	Miscible

10. STABILITY AND REACTIVITY

Chemical stability:

Stable.

Conditions to avoid:

Excessive heat.

Incompatible materials:

Oxidising agents

Hazardous decomposition products:

Refer to section 5 (Fire Fighting Measures).

Hazardous reactions:

Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Health Effects:

Swallowed : May be irritating to tissue. Ingestion of large quantities may cause gastro intestinal effects such as discomfort, vomiting, and diarrhoea.

Eye : Irritating to eye tissue

Skin : May be irritating to skin tissue.

Inhaled : Inhalation of vapours may irritate nose and throat. Aspiration of liquid into lungs can cause serious or fatal pneumonitis

Chronic Effects: Prolonged contact with skin may result in dermatitis.

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12. ECOLOGICAL INFORMATION

Ecotoxicity:

No data available.

Persistence and degradability:

No data available.

Mobility:

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.

14. TRANSPORT INFORMATION

UN Number: 1993

UN Proper Shipping Name: FLAMMABLE LIQUID N.O.S. (contains ethanol)

Class and subsidiary risk(s): 3

Packing Group: 11

Hazchem Code: •3YE

Special precautions for user : Nil

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP):

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16. OTHER INFORMATION

Disclaimer:

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END of SDS