AUSTRALIAN CHEMICAL REAGENTS

SAFETY DATA SHEET

Date Prepared: January 2018
Version No: 3

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	Boric Acid Reagent with Indicators
Product Code:	5232
Other Names:	Nil
Uses:	Analytical Reagent
Supplier:	Australian Chemical Reagents 38-50 Bedford Street Gillman SA 5013
Contacts:	Telephone: 61 08 84402000 Fax: 61 08 84402001 Emergency Phone: 61 08 84402000 Mon – Fri 8:30am – 5:00pm

2. HAZARDS INFORMATION

GHS Classification

Toxic to reproduction: Category 1B

Signal Word(s) DANGER

Pictogram(s)

Hazard Statement(s)

H360 May damage fertility or the unborn child.

Precautionary Statement(s)

Preventative

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P281 Use personal protective equipment as required.

Response

P308+P313 IF exposed or concerned: Get medical advice/attention.

Storage P405 Store locked up.

Disposal P501 Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients :

Chemical Entity	CAS No	Proportion
Boric Acid	[10043-35-3]	1%
Ethyl alcohol	[64-17-5]	1.7%
Methyl Red	[493-52-7]	<0.1%
Bromocresol Green	[76-60-8]	<0.1%
Water	[7732-18-5]	to 100%

4. FIRST AID MEASURES

Safety showers and eye wash facilities should be provided.

Swallowed :

If conscious wash out mouth with water. 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:

Solution will not burn or support combustion.

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.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:

Prevent from entering waterways. Restrict access to area. Ventilate area.

Methods and materials for containment and clean up:

Wear appropriate personal protective equipment. 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. Observe good hygiene and housekeeping practices.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards:

Safe work Australia – None known

Biological Limit Values: No data available.

Engineering Controls:

Use with adequate general ventilation.

Personal Protective Equipment (PPE):
The use of butyl rubber 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 grey red liquid
Odour:	Nil
pH:	4
Boiling Point (^{0}C) :	100
Freezing/melting Point:	Not applicable
Vapour Pressure (mm of Hg @ 25^{0}C) :	Not applicable
Vapour Density:	Not applicable
Specific Gravity :	1
Flash Point (^{0}C) :	Not flammable
Flammability Limits (%) :	Not flammable
Solubility in Water (g/L) :	Soluble

10. STABILITY AND REACTIVITY

Chemical stability:
Stable.
Conditions to avoid:
Excessive heat.
Incompatible materials:
Alkalis, hypochlorites, cyanides, sulphides, metals
Hazardous decomposition products:
Refer to section 5 (Fire Fighting Measures).
Hazardous reactions:
Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Health Effects:
Swallowed : May irritate gastric system. For boric acid LDLo woman 200 mg/kg. For ethanol oral – human LDLo 1400 mg/kg
Eye : May irritate eye tissue. 100mg ethanol applied to rabbit eyes produced moderate irritation after 24 hours.
Skin : May irritate skin tissue. 500mg ethanol applied to rabbit skin produced severe irritation after 24 hours.
Inhaled : May be irritating to respiratory tissue. May result in dizziness, headaches and nausea. For ethanol LC50 inhalation rat 20000 ppm / 10 hours
Chronic Effects: May cause dermatitis or borism (dry skin eruptions and gastric disturbances) with long term contact.

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: Not applicable
UN Proper Shipping Name: Not applicable
Class and subsidiary risk(s): Not applicable
Packing Group: Not applicable
Hazchem Code: Not applicable
Special precautions for user : Nil

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP):
Not scheduled

16. OTHER INFORMATION

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END of SDS