

SDS no. 50YMU5MH • Date of issue: 2024-10-30

**GHS Product identifier**

Product name	IMIDAZOLE BUFFER CONCENTRATE
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Product number AIB

## Laboratory reagent.

### Supplier's details

Name	ChemSupply Australia Pty Ltd
Address	38-50 Bedford Street 5013 Gillman South Australia Australia

Telephone 08 8440 2000  
email [www.chemsupply.com.au](http://www.chemsupply.com.au)

## National contact

Name	Australian Biostain Pty Ltd
Address	16 Shipwright Road 5016 Largs North SA Australia

**Emergency phone number**

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

### General hazard statement

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

### Classification of the substance or mixture

**GHS classification in accordance with: UN GHS revision 7**

- Toxic to reproduction, Cat. 1

# Safety Data Sheet

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### GHS label elements, including precautionary statements

#### Pictograms



#### Signal word

**Danger**

#### Hazard statement(s)

H360

May damage fertility or the unborn child

#### Precautionary statement(s)

P202

Do not handle until all safety precautions have been read and understood.

P280

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

P308+P313

IF exposed or concerned: Get medical advice/attention.

P405

Store locked up.

P501

Dispose of contents/container to an approved waste disposal facility

## SECTION 3: Composition/information on ingredients

### Mixtures

Other components either not classified as Hazardous under the GHS, or below cut-off concentrations to be classified as Hazardous.

### Hazardous components

Component	CAS no.	Concentration
Imidazole (EC no.: 206-019-2; Index no.: 613-319-00-0)	288-32-4	7 % (weight)
CLASSIFICATIONS: Toxic to reproduction, Cat. 1B; Acute toxicity, oral, Cat. 4; Skin corrosion/irritation, Cat. 1C. HAZARDS: H302 - Harmful if swallowed; H314 - Causes severe skin burns and eye damage; H360D - May damage the unborn child.		
HYDROCHLORIC ACID (<37%) (EC no.: 231-595-7; Index no.: 017-002-01-X)	7647-01-0	< 5 % (weight)
CLASSIFICATIONS: Specific target organ toxicity following single exposure, Cat. 3; Skin corrosion/irritation, Cat. 1B. HAZARDS: H314 - Causes severe skin burns and eye damage; H335 - May cause respiratory irritation. [SCLs/M-factors/ATEs]: Skin Corr. 1B; H314: C ≥ 25 %; Skin Irrit. 2; H315: 10 % ≤ C < 25 %; Eye Irrit. 2; H319: 10 % ≤ C < 25 %; STOT SE 3; H335: C ≥ 10 %		

## SECTION 4: First-aid measures

### Description of necessary first-aid measures

#### General advice

For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor (at once).

#### If inhaled

If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

#### In case of skin contact

Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes. Ensure contaminated clothing is washed before re-use. Seek medical advice if concerned.

#### In case of eye contact

Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.

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If swallowed

Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

### Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

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## SECTION 5: Fire-fighting measures

### Suitable extinguishing media

Use water spray, fog or foam - Do NOT use water jets.

### Specific hazards arising from the chemical

Temperature and combustion of materials in the vicinity may cause formation of toxic fumes.

### Special protective actions for fire-fighters

Wear SCBA and chemical splash suit. Fully encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for these materials.

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## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

### Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel). Keep in suitable, closed containers for disposal.

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## SECTION 7: Handling and storage

### Precautions for safe handling

Wash hands and face thoroughly after working with material. Avoid generation or accumulation of dusts. Avoid prolonged or repeated contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Use local exhaust extraction.

### Conditions for safe storage, including any incompatibilities

Store away from oxidizing agents. Keep container tightly closed and in a cool, dry, well-ventilated place, away from direct sunlight and other sources of heat or ignition.

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## SECTION 8: Exposure controls/personal protection

### Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

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

#### Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

#### Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hand Protection: Ensure hand protection complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

**Body protection**

Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection: Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

**Respiratory protection**

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

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## SECTION 9: Physical and chemical properties

**Basic physical and chemical properties**

Physical state	Solid
Appearance	Clear colourless liquid.
Color	No data available.
Odor	Characteristic.
Odor threshold	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	~100°C
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	7.2 - 7.4
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Soluble.
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	No data available.
Relative vapor density	No data available.
Particle characteristics	No data available.

**Supplemental information regarding physical hazard classes**

No data available.

**Further safety characteristics (supplemental)**

No data available.

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## SECTION 10: Stability and reactivity

**Reactivity**

Stable under normal conditions of storage and handling.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

Hazardous Polymerization: Will not occur.

**Conditions to avoid**

Avoid temperature extremes.

**Incompatible materials**

Strong oxidising agents, alkali metals, various metals and alloys.

**Hazardous decomposition products**

Other decomposition products - No data available In the event of fire: see section 5

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**SECTION 11: Toxicological information**

**Information on toxicological effects**

**Acute toxicity**

Acute Toxicity - Oral: LD50 (rat): 970 mg/kg - Imidazole

Ingestion: May be harmful by ingestion. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: May be harmful by inhalation. May be irritating to mucous membranes and upper respiratory tract.

**Skin corrosion/irritation**

May cause skin irritation.

**Serious eye damage/irritation**

May cause eye irritation.

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

H360D May damage the unborn child.

**Specific target organ toxicity (STOT) - single exposure**

Not classified based on available information.

**Specific target organ toxicity (STOT) - repeated exposure**

Not classified based on available information.

**Aspiration hazard**

Not classified based on available information.

**Additional information**

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Imidazole: cat LDLo subcutaneous 125mg/kg (125mg/kg) BEHAVIORAL: FOOD INTAKE (ANIMAL)

BEHAVIORAL: REGIDITY Archiv fuer Experimentelle Pathologie und Pharmakologie. Vol. 84, Pg. 155, 1918.

dog LD50 subcutaneous 28mg/kg (28mg/kg) Przegląd Epidemiologiczny. Vol. 67, Pg. 295, 1993.

guinea pig LD50 oral 760mg/kg (760mg/kg) Przegląd Epidemiologiczny. Vol. 67, Pg. 295, 1993.

mammal (species unspecified) LD50 oral 1gm/kg (1000mg/kg) Pesticide Chemicals Official Compendium, Association of the American Pesticide Control Officials, Inc., 1966. Vol. -, Pg. 608, 1966.

mouse LD50 intraperitoneal 300mg/kg (300mg/kg) National Technical Information Service. Vol. AD277-689,

mouse LD50 intravenous 475mg/kg (475mg/kg) BEHAVIORAL: CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD Arzneimittel-Forschung. Drug Research. Vol. 33, Pg. 716, 1983.

[Link to PubMed](#)

mouse LD50 oral 880mg/kg (880mg/kg) German Offenlegungsschrift Patent Document. Vol. #3046325,

mouse LD50 subcutaneous 817mg/kg (817mg/kg) Journal of Pharmacology and Experimental Therapeutics. Vol. 119, Pg. 444, 1957.

[Link to PubMed](#)

rat LD50 oral 220mg/kg (220mg/kg) Przegląd Epidemiologiczny. Vol. 67, Pg. 295, 1993.

rat LD50 subcutaneous 626mg/kg (626mg/kg) Journal of Pharmacology and Experimental Therapeutics. Vol. 119, Pg. 444, 1957.

[Link to PubMed](#)

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## SECTION 12: Ecological information

### Toxicity

Acute Toxicity - Fish: Daphnia 341 mg/48hr.

### Mobility in soil

Product is readily diluted with water and may find its way into waterways and soils.

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## SECTION 13: Disposal considerations

### Disposal methods

### Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

### Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

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## SECTION 14: Transport information

### ADG (Road and Rail)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

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## SECTION 15: Regulatory information

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

### Australia SUSMP

Poison Schedule: NS

## **SECTION 16: Other information**

### **Further information/disclaimer**

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

### **Preparation information**

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), [hcis.safeworkaustralia.gov.au](https://hcis.safeworkaustralia.gov.au)

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)