

## Safety Data Sheet **CRYSTAL VIOLET 0.5%**

SDS no. GBY4RCW1 • Version 1.0 • Date of issue: 2025-12-05

---

### SECTION 1: Identification

#### GHS Product identifier

Product name CRYSTAL VIOLET 0.5%

Product number CV.5

#### Recommended use of the chemical and restrictions on use

Laboratory stain/reagent. Staining of micro-organisms.

#### 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)

---

### SECTION 2: Hazard identification

#### 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

- Flammable liquids, Cat. 3

#### GHS label elements, including precautionary statements

#### Pictograms

# Safety Data Sheet

## CRYSTAL VIOLET 0.5%

SDS no. GBY4RCW1 • Version 1.0 • Date of issue: 2025-12-05



### Signal word

### Warning

#### Hazard statement(s)

H226

Flammable liquid and vapor

#### Precautionary statement(s)

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233

Keep container tightly closed.

P240

Ground and bond container and receiving equipment.

P241

Use explosion-proof [electrical/ventilating/lighting/...] equipment.

P242

Use non-sparking tools.

P243

Take action to prevent static discharges.

P280

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

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P370+P378

In case of fire: Use agents recommended in Section 5 of SDS for extinction

P403+P235

Store in a well-ventilated place. Keep cool.

P501

Dispose of contents/container to an approved waste disposal facility

#### Other hazards which do not result in classification

Protocols in which this material/reagent is used may greatly influence Risks/Hazards.; Even though a Hazard or Risk is not identified, this does not exclude that an effect may or can occur.

## SECTION 3: Composition/information on ingredients

### Mixtures

Component	Identification	Weight %
Water	CAS no.: 7732-18-5 EC no.: 231-791-2	>= 91.5 %
Ethanol	CAS no.: 64-17-5 EC no.: 200-578-6 Index no.: 603-002-00-5	<= 8 %
Crystal violet	CAS no.: 548-62-9 EC no.: 208-953-6 Index no.: 612-205-00-8	<= 0.5 %

## SECTION 4: First-aid measures

### Description of necessary first-aid measures

#### General advice

First Aid Facilities: Maintain eyewash fountain in work area.

#### 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.

## Safety Data Sheet

### CRYSTAL VIOLET 0.5%

SDS no. GBY4RCW1 • Version 1.0 • Date of issue: 2025-12-05

In case of skin contact	Rinse with plenty of water. Get medical attention if irritation develops and persists.
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.
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.

---

## SECTION 5: Fire-fighting measures

#### Suitable extinguishing media

Caution: Use of water spray when fighting fire may be inefficient.

Small fire: Use foam, dry chemical, CO<sub>2</sub> or water spray.

Large fire: Use foam, fog or water spray - Do not use water jets.

If safe to do so, move undamaged containers from fire area. Cool containers with flooding quantities of water until well after fire is out.

#### Specific hazards arising from the chemical

Hazards from Combustion Products: Oxides of carbon.

#### Special protective actions for fire-fighters

SCBA and structural firefighter's uniform may provide limited protection. Fully-encapsulating, gas-tight suits should be worn for maximum protection.

---

## 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. Eliminate sources of ignition

---

## SECTION 7: Handling and storage

#### Precautions for safe handling

Avoid fumes.

Wear Safety glasses, gloves and protective apron.

Work in an area of good ventilation, an approved fume cupboard is preferred.

No eating or drinking in workplace, wash hands whenever leaving work area.

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

Store in a well ventilated place. Keep container tightly closed. Store out of direct sunlight and away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of reach of children.

---

## SECTION 8: Exposure controls/personal protection

#### Control parameters

# Safety Data Sheet

## CRYSTAL VIOLET 0.5%

SDS no. GBY4RCW1 • Version 1.0 • Date of issue: 2025-12-05

### CAS: 64-17-5

Ethanol

AU/SWA (Australia): 1000 ppm; 1880 mg/m<sup>3</sup> TWA inhalation [Ethyl alcohol]

### 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.

#### 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

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/ NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

---

## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

Physical state	Liquid
Appearance	
Color	Dark Blue
Odor	Faint alcohol.
Odor threshold	
Melting point/freezing point	n/d
Boiling point or initial boiling point and boiling range	n/d
Flammability	Mildly flammable
Lower and upper explosion limit/ flammability limit	n/d
Flash point	49 to 53°C
Auto-ignition temperature	n/d

# Safety Data Sheet

## CRYSTAL VIOLET 0.5%

SDS no. GBY4RCW1 • Version 1.0 • Date of issue: 2025-12-05

Decomposition temperature	n/d
pH	n/a
Kinematic viscosity	n/d
Solubility	Solubility in Water: Completely.
Partition coefficient n-octanol/ water (log value)	n/d
Vapor pressure	n/d
Density and/or relative density	Approx 1
Relative vapor density	n/d
Particle characteristics	n/a

---

### 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

None under normal use conditions.

Hazardous Polymerization: Will not occur.

#### Conditions to avoid

Avoid storing in direct sunlight and avoid extremes of temperature.

Heat, flames and sparks.

#### Incompatible materials

Strong oxidisers, metals.

#### Hazardous decomposition products

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

---

### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity

Acute Toxicity - Oral: LD50 Crystal Violet 420 mg/kg Oral rat.

Ingestion: Significant oral exposure is considered to be unlikely and is unlikely to cause any irritation problems in the short or long term.

Inhalation: Unlikely to cause any irritation or discomfort.

##### Skin corrosion/irritation

No adverse effects expected. However will stain the skin, and the stain may be difficult to remove, but should not cause any adverse health effects.

# Safety Data Sheet

## CRYSTAL VIOLET 0.5%

SDS no. GBY4RCW1 • Version 1.0 • Date of issue: 2025-12-05

### Serious eye damage/irritation

May be mildly irritating to the eyes.

### Respiratory or skin sensitization

Not classified based on available information.

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.

### 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.

---

## SECTION 12: Ecological information

### Toxicity

No data available on product

---

## 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.

---

## SECTION 14: Transport information

### ADG (Road and Rail)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

---

## SECTION 15: Regulatory information

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

#### Australia SUSMP

Poison Schedule: NS

## Safety Data Sheet

### CRYSTAL VIOLET 0.5%

SDS no. GBY4RCW1 • Version 1.0 • Date of issue: 2025-12-05

---

## 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

All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. ChemSupply Australia Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.

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](http://hcis.safeworkaustralia.gov.au)

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)