



Infosafe No™	1CH2W	Issue Date : March 2020	RE-ISSUED by CHEMSUPP
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Product Name : **CRYSTAL VIOLET / GENTIAN VIOLET**

Classified as hazardous

**1. Identification**

**GHS Product Identifier** CRYSTAL VIOLET / GENTIAN VIOLET

**Company Name** CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

**Address** 38 - 50 Bedford Street GILLMAN  
SA 5013 Australia

**Telephone/Fax Number** Tel: (08) 8440-2000  
Fax: (08) 8440-2001

**Emergency phone number** CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

**Recommended use of the chemical and restrictions on use** Medicine (topical antibacterial and antiallergen), acid-base indicator, alcohol denaturant, biological stain, textile dye and laboratory reagent.

**Other Names**

<u>Name</u>	<u>Product Code</u>
CRYSTAL VIOLET LR	CL067
Gentian Violet, C.I. 42555, Methyl violet 10B, Basic violet 3, Hexamethyl-p-rosaline chloride	

**Other Information**

Chem-Supply 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 Chem-Supply 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 Chem-Supply 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.

**2. Hazard Identification**

**GHS classification of the substance/mixture** Hazardous to the Aquatic Environment - Acute Hazard: Category 1  
Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1  
Carcinogenicity: Category 2  
Eye Damage/Irritation: Category 1  
Acute Toxicity - Oral: Category 4

**Signal Word (s)** DANGER

**Hazard Statement (s)** H302 Harmful if swallowed.  
H318 Causes serious eye damage.  
H351 Suspected of causing cancer.  
H410 Very toxic to aquatic life with long lasting effects.

**Pictogram (s)** Environment, Exclamation mark, Health hazard, Skull and crossbones

**Precautionary statement – Prevention**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P281 Use personal protective equipment as required.

**Precautionary statement – Response**

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P330 Rinse mouth.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P308+P313 IF exposed or concerned: Get medical advice/attention.



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**Precautionary statement – Storage** P405 Store locked up.

**Precautionary statement – Disposal** P501 Dispose of contents/container to an approved waste disposal plant.

**3. Composition/information on ingredients**

**Chemical Characterization** Solid

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Gentian Violet	548-62-9	100 %		

**4. First-aid measures**

**Inhalation** If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Consult a physician.

**Ingestion** Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. Give water to drink. DO NOT INDUCE VOMITING. Seek medical advice if symptoms persist.

**Skin** 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 /attention depending on the severity.

**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.

**First Aid Facilities** Maintain eyewash fountain and safety shower in work area.

**Advice to Doctor** Treat symptomatically based on judgement of doctor and individual reactions of the patient.

**Other Information** For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor at once.

**5. Fire-fighting measures**

**Hazards from Combustion** May liberate toxic and /or poisonous fumes such as oxides of carbon and nitrogen and hydrogen chloride gas.

**Products**

**Specific Methods** Small fire: Use dry chemical, CO2 or water spray.  
Large fire: Use water spray, fog or foam.

**Specific hazards arising from the chemical** May burn but do not ignite readily. Containers may explode when heated. Runoff may pollute waterways. Fire will produce irritating, poisonous and/or corrosive gases.

**Hazchem Code** 2Z

**Precautions in connection with Fire** Wear SCBA and structural firefighter's uniform.

**6. Accidental release measures**

**Personal Precautions** Take off immediately all contaminated clothing. Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

**Personal Protection** Wear protective clothing specified for normal operations (see Section 8)

**Clean-up Methods - Small Spillages** Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

**Clean-up Methods - Large Spillages** Seek expert advice on handling and disposal.

**Environmental Precautions** Prevent contamination of soil and water.

**7. Handling and storage**

**Precautions for Safe Handling** Wash hands and face thoroughly after working with material. Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid generation or accumulation of dusts. Avoid prolonged or repeated contact with skin and eyes .

**Conditions for safe storage, including any incompatibilities** Store away from oxidizing agents. Keep away from direct sunlight and other sources of heat or ignition. Keep container tightly closed and dry



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**Storage Regulations** Refer Australian Standard AS/NZS 4681:2000 'The storage and handling of Class 9 (miscellaneous) dangerous goods and articles'.**Storage Temperatures** Store at room temperature (15 to 25 °C recommended).**8. Exposure controls/personal protection****Other Exposure Information** No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m<sup>3</sup>. All atmospheric contamination should be kept to as low a level as is workable.**Appropriate engineering controls** Maintain concentration below recommended exposure limit.**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. Recommendation: Dust respirator.**Eye 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. Recommendation: Goggles or face-shield.**Hand Protection** Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.**Personal Protective Equipment** Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.**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.**Hygiene Measures** Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.**9. Physical and chemical properties****Form** Solid**Appearance** Dark green powder or greenish glistening pieces having a metallic luster.**Odour** Odourless.**Melting Point** 173 °C**Solubility in Water** Soluble (50 g/L @ 27 °C).**Solubility in Organic Solvents** Insoluble in diethyl ether.**Specific Gravity** 1.19**pH** pH (10 g/L, aqueous solution, 20 °C): 2.5 - 3.5**Flammability** Combustible.**Molecular Weight** 407.99**10. Stability and reactivity****Chemical Stability** Stable under normal use conditions.**Conditions to Avoid** Light. Incompatibles.**Incompatible Materials** Strong oxidizing agents, strong reducing agents and strong acids.



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<b>Hazardous Decomposition Products</b>	May liberate toxic and/ or poisonous fumes including oxides of carbon and nitrogen and hydrogen chloride gas.
<b>Hazardous Polymerization</b>	Will not occur.

**11. Toxicological Information**

<b>Ingestion</b>	Harmful if swallowed. Ingestion of the material causes damage to mucous membranes and gastrointestinal tract. Symptoms include of nausea, vomiting, diarrhea, pain, headaches, dizziness. Irreversible damage is possible.
<b>Inhalation</b>	Inhalation of dust may cause irritation to the mucous membranes, and respiratory tract. Symptoms include of coughing and dyspnoea.
<b>Skin</b>	May cause irritation and stains to the skin.
<b>Eye</b>	Severe eye irritation. Risk of serious damage to eyes. This product contains a cationic dye which may cause permanent injury to the cornea and conjunctiva in documented exposure cases with human or rabbit eyes.
<b>Respiratory sensitisation</b>	Not classified based on available information.
<b>Skin Sensitisation</b>	Not classified based on available information.
<b>Germ cell mutagenicity</b>	Not classified based on available information.
<b>Carcinogenicity</b>	Carcinogenicity: Category 2 H351 Suspected of causing cancer.
<b>Reproductive Toxicity</b>	Not classified based on available information.
<b>STOT-single exposure</b>	Not classified based on available information.
<b>STOT-repeated exposure</b>	Not classified based on available information.
<b>Chronic Effects</b>	Possible risks of irreversible effects.
<b>Serious eye damage/irritation</b>	Eye Damage/Irritation: Category 1 H318 Causes serious eye damage.
<b>Mutagenicity</b>	Not classified based on available information.
<b>Other Information</b>	Long-term feeding studies in rats and mice revealed an increased incidence of tumors in different target organs. Results of long-term studies available suggest that exposure to crystal violet/gentain violet may lead to irreversible damage. Postitive in-vitro genetic toxicity findings also point in a negative direction. However, the data available is insufficient to classify the dye as carcinogenic in humans. For some minor components, animal experiments performed in conditions comparable with workplace situations show a potential for carcinogenicity in humans. Possible mutagenic effect on humans but these results require futher clarification.

**12. Ecological information**

<b>Ecotoxicity</b>	Highly toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.
<b>Bioaccumulative Potential</b>	Not readily biodegradable.
<b>Environmental Protection</b>	Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic organisms.

**13. Disposal considerations**

<b>Disposal Considerations</b>	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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**14. Transport information**

<b>Transport Information</b>	Class 9 Miscellaneous dangerous goods shall not be loaded in a vehicle with: - Class 1 Explosives - Class 5. 1 Oxidizing agents (when Class 9 substance capable of igniting and burning - Class 5. 2 Organic peroxides (when Cl. 9 capable of igniting/burnin
<b>U.N. Number</b>	3077



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<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
<b>Transport hazard class(es)</b>	9
<b>Hazchem Code</b>	2Z
<b>Packaging Method</b>	3.8.9
<b>Packing Group</b>	III
<b>EPG Number</b>	9C1
<b>IERG Number</b>	47

**15. Regulatory information**

<b>Regulatory Information</b>	Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
<b>Poisons Schedule</b>	Not Scheduled
<b>Hazard Category</b>	Harmful,Irritant,Dangerous for the environment

**16. Other Information**

<b>Literature References</b>	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010. Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'. Safe Work Australia, 'Hazardous Chemical Information System, 2005'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'. Paul McCarthy Ph. (08) 8440 2000 <b>DISCLAIMER STATEMENT:</b>
<b>Contact Person/Point</b>	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. Chem-Supply 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.

**Empirical Formula & Structural Formula** C<sub>25</sub>H<sub>30</sub>N<sub>3</sub>.Cl

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