Infosafe No™ 1CHJ4	Issue Date :July 2021	RE-ISSUED by CHEMSUPP

Product Name **METHYL VIOLET**

Classified as hazardous

1. Identification

GHS Product Identifier	METHYL VIOLET
Company Name	CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia
Telephone/Fax Number	Tel: (08) 8440-2000
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)
E-mail Address	www.chemsupply.com.au
Recommended use of the chemical and restrictions on use	Microscopy; biological stain; acid-base indicator; medicine (topical antibacterial and antiallergen); medication (vet); alcohol denaturant; found in most copying or indelible pencils (prior to 1950), in more recent years pencil manufacturers have replaced gentian violet with acidic (anionic) dyes; used industrially to prepare inks, and to both dye and surface-coat paper; as a dye for wood; textile dye; leather dyeing; pesticide; and laboratory reagent.

Other Names

Name	Product Code
METHYL VIOLET LR Methyl violet 2B, C.I. 42535, Basic violet 1	ML055

Other Information

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.

2. Hazard Identification

GHS classification of the substance/mixture	Hazardous to the Aquatic Environment - Acute Hazard: Category 1 Carcinogenicity: Category 2 Acute Toxicity - Oral: Category 4
Signal Word (s)	WARNING
Hazard Statement (s)	H302 Harmful if swallowed. H351 Suspected of causing cancer. H400 Very toxic to aquatic life.
Pictogram (s)	Health hazard, Exclamation mark, Environment



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. P281 Use personal protective equipment as required.

Precautionary statement – Response	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P330 Rinse mouth. P308+P313 IF exposed or concerned: Get medical advice/attention. P391 Collect spillage.
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

Ingredients	**Name**	**CAS**	**Proportion**
	Methyl violet	8004-87-3	100 %
Other Information	pH indicator: tests pH ranges from 0 to 1.6. At the acid end of its measuring range, it takes on a yellow colour. At the alkaline end, it becomes bluish-violet.		

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. DO NOT INDUCE VOMITING. Seek immediate medical advice.
Skin	Wash affected areas with copious quantities of water immediately for at least 15 minutes while removing contaminated clothing and shoes. Seek medical attention.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical attention.
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.

5. Fire-fighting measures

Suitable extinguishing media	No limitations to the type of extinguishing media. Use fire extinguishing media appropriate for surrounding environment. Use water spray, dry chemical, carbon dioxide, or appropriate foam.
Hazards from Combustion Products	Nitrous vitriol gases, hydrogen chloride (HCl), carbon monoxide and carbon dioxide and very toxic fumes of chlorides.
Specific Methods	Small fire: Use dry chemical, CO2, coarse water spray or foam. Large fire: Use coarse water spray, fog or foam.
Specific hazards arising from the chemical	May burn but do not ignite readily. Runoff may pollute waterways. Containers may explode when heated. Fire or heat may produce irritating, poisonous and/or corrosive fumes.
Hazchem Code	2Z
Decomposition Temp.	137 °C
Precautions in connection with Fire	Wear SCBA and chemical splash suit. SCBA and structural firefighter's uniform may provide limited protection. Respirator should be worn.

6. Accidental release measures

Personal Precautions	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 using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance

with local regulations.

7. Handling and storage

Precautions for Safe Handling	Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Ensure good ventilation/exhaustion at the workplace. Isolate from incompatible substances. Empty containers pose a fire risk, evaporate the residue under a fume hood. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.
Conditions for safe storage, including any incompatibilities	Store away from oxidizing agents. Store away from sources of heat or ignition. Store in a cool place. Keep containers closed at all times.
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/m3. All atmospheric contamination should be kept to as low a level as is workable.
Appropriate engineering controls	Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.
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.
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.
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.
Body Protection	Clean impervious clothing should be worn. 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 with metallic lustre.
Odour	Odourless.

Decomposition Temperature	137 °C
Melting Point	137 °C (decomposition)
Solubility in Water	Slightly soluble (30 g/L @ 25 °C)
Solubility in Organic Solvents	Soluble in ethanol, diethylene glycol, and dipropylene glycol.
pH	pH ~ 4.5 (10 g/l, H2O)
Vapour Pressure	Negligible.
Evaporation Rate	Negligible.
Volatile Component	0 %volume @ 21 °C.
Flammability	Combustible.
Molecular Weight	393.97

10. Stability and reactivity

Chemical Stability	Stable under normal temperatures and pressures. Hygroscopic Light sensitive.
Conditions to Avoid	Incompatible materials, dust generation, excess heat, strong oxidants, light.
Incompatible Materials	Oxidising agents and reducing agents.
Hazardous Decomposition Products	Oxides of carbon and nitrogen, hydrogen chloride gas and chlorides.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Toxicology Information	No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. If mishandled or overexposed to this product the following symptoms or effects may occur. To the best of our knowledge, the toxicological properties of this material have not been fully investigated.
Acute Toxicity - Oral	LD50 (rat): 413 mg/kg.
Ingestion	Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting, diarrhoea, pain, headache and dizziness. May cause damage to mucous membranes, gastrointestinal tract. The results of the long-term studies available suggest that exposure to crystal violet/gentian violet may lead to irreversible damage.
Inhalation	Dust is irritating to the mucous membranes, respiratory tract. Symptoms may include coughing, sore throat, dyspnoea, and chest pain.
Skin	May cause slight irritation with redness and pain.
Eye	Risk of serious damage to eyes. Risk of permanent damage due to staining of the cornea.
Respiratory sensitisation	Not classified based on available information.
Skin Sensitisation	Not classified based on available information.
Germ cell mutagenicity	Not classified based on available information.
Carcinogenicity	Carcinogenicity: Category 2 H351 Suspected of causing cancer.
Reproductive Toxicity	Not classified based on available information.
STOT-single exposure	Not classified based on available information.

STOT-repeated exposure	Not classified based on available information.
Chronic Effects	Possible risks of irreversible effects. Prolonged or repeated skin contact may cause dermatitis.
Serious eye damage/irritation	Not classified based on available information.
Mutagenicity	Not classified based on available information.
Subchronic/Chronic Toxicity	Long-term feeding studies in rats and mice revealed an increased incidence of tumors in different target organs. The results of the long-term studies available suggest that exposure to crystal violet/gentian violet may lead to irreversible damage. The positive in-vitro genetic toxicity findings also point in a negative direction. However, the data available do not suffice to classify the dye as carcinogenic in humans.

12. Ecological information

Ecotoxicity	Highly toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Environmental Protection	Do not allow to enter waters, waste water, or soil!
Acute Toxicity - Fish	LC50 (P. promelas): 0.047 mg/l/ 96 h.

13. Disposal considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.

14. Transport information

Transport Information	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 Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in; (a) packagings that do not incorporate a receptacle exceeding 500 kg(L); or (b) IBCs.
U.N. Number	3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (Methyl violet)
Transport hazard class(es)	9
Hazchem Code	2Z
Packing Group	III
EPG Number	9C1
IERG Number	47
Environmental Hazards	Highly toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

15. Regulatory information

Regulatory Information	Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. All the constituents of this product are listed on the Australian Inventory of Chemical Substances (AICS), or exempted.
Poisons Schedule	Not Scheduled

16. Other Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.

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	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'. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand. Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.
Contact Person/Point	Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: 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.
Empirical Formula & Structural Formula	Empirical Formula: C24H27N3.HCl. Structural Formula: [(CH3)2NC6H4]2C:C6H4:NCH3·HCl.

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