

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name



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Product	Crystal Violet			Code	2070
CAS#	HSNO#	UN #	DG Class/es	Packing group #	
548-62-9	HSR003684	n/a	n/a	n/a	

Recommended use: Laboratory Investigations

2. Hazards Identification

2.1 New Zealand:

Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Not classified as Dangerous Goods for transport, according to the New Zealand Standard NZS 5433:1999 Transport of Dangerous Goods on Land.

HSNO Classification:

- 6.1C - Substance that is acutely toxic.
- 6.3B - Substance that is irritating to the skin.
- 8.3A - Substance that is corrosive to ocular tissue.
- 9.1A - Substance that is very ecotoxic in the aquatic environment.
- 9.2B - Substance that is toxic in the soil environment.

2.2 GHS Classification

Acute toxicity, Oral (Category D) Skin irritation (Category A) Serious eye damage (Category A) Carcinogenicity (Category B) Aquatic toxicity (Acute or Chronic) (Category A)

2.2 GHS Label elements, including precautionary statements Pictogram



Pictogram

Signal word **Danger**

Hazard statement(s)

H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H351 Suspected of causing cancer. H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves.

Response P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. 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. P321 Specific treatment (see supplemental first aid instructions on this label). P330 Rinse mouth. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse. P391 Collect spillage.

Storage P405 Store locked up.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Gentian Violet	548-62-9	100 %

4. FIRST AID MEASURES

Inhalation	If inhaled, remove to fresh area. Keep at rest until recovered. If symptoms develop seek medical attention.
Ingestion	If swallowed do not induce vomiting. Wash out mouth with water. If symptoms develop seek medical attention.
Skin	Wash with water and soap. If irritation develops seek medical attention.
Eye	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed off completely. If irritation develops, seek medical attention.
First Aid Facilities	Eye wash and normal washroom facilities.
Advice to Doctor	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Foam, dry chemical powder, carbon dioxide, water spray or water fog.
Hazards from Combustion Products	Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide, hydrogen chloride and oxides of nitrogen.
Specific Hazards	Combustible solid; will decompose and burn under fire conditions. The finely divided dust, in sufficient quantity, may form flammable/explosive mixtures with air. Dust clouds may present an explosion hazard in the presence of an ignition source. To prevent static discharge all equipment must be adequately grounded.
Precautions in connection with Fire	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion. Water spray may be used to cool down heat-exposed containers. If safe to do so, remove containers from path of fire.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Wear appropriate personal protective equipment and clothing to prevent inhalation and eye exposure. Sweep up material avoiding dust generation or where possible use dustless methods such as vacuum to collect the material and transfer into suitable labelled containers for subsequent recycling or disposal. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations. Dispose of waste according to applicable local and national regulations.
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7. HANDLING AND STORAGE

Precautions for Safe Handling	Wear appropriate protective equipment to prevent inhalation and eye exposure. Use in designated areas with adequate ventilation. Prevent the creation of dust in the work atmosphere. Keep containers closed when not in use. Practice good personal hygiene, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.
Conditions for Safe Storage	Store in a cool, dry, well-ventilated area away from heat, sources of ignition and oxidising agents. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	<p>No exposure standards have been established for the mixture by the Australian National Occupational Health & Safety Commission (NOHSC) or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, over-exposure to some chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels.</p> <p>The exposure limits for dust not otherwise specified are as follows:</p> <p>Australian National Occupational Health And Safety Commission (NOHSC) exposure standards:</p> <p>Dust TWA 10 mg/m³ (inspirable fraction)</p> <p>New Zealand Workplace Exposure Standards (OSH):</p> <p>Dust TWA 10 mg/m³ (inspirable fraction); TWA 3 mg/m³ (respirable fraction)</p> <p>TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.</p>
Biological Limit Values	No biological limit allocated.
Engineering Controls	Good ventilation adequate to maintain the concentration below exposure standards is required. Where dust is generated, a local exhaust ventilation system, drawing dust away from workers' breathing zone, should be used.
Respiratory Protection	Where ventilation is inadequate, the use of an Air Purifying Respirator with a particulate/dust filter complying with AS/NZS 1715 and AS/NZS 1716 is recommended.
Eye Protection	Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye

protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection	Wear laminated film or other suitable, impervious gloves conforming to AS/NZS 2161: Occupational protective gloves.
Body Protection	Suitable protective clothing should be worn e.g. cotton overalls buttoned at neck and wrist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Green powder or crystals.
Melting Point	205°C (decomposes)
Boiling Point	Not available
Solubility in Water	Soluble
Specific Gravity	Not available
Vapour Pressure	Negligible
Flash Point	Not applicable
Flammability	Combustible solid.
Auto-Ignition Temperature	Not available
Flammable Limits - Lower	Not available
Flammable Limits - Upper	Not available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of handling and storage.
Incompatible Materials	Strong oxidising agents.
Hazardous Decomposition Products	Thermal decomposition products include carbon monoxide, carbon dioxide, hydrogen chloride and oxides of nitrogen.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	For Gentian Violet: LD50 (Oral, Rat): 420 mg/kg LD50 (Oral, Mouse): 96 mg/kg LD50 (Oral, Rabbit): 150 mg/kg This product contains a cationic dye. Similar dyes have caused permanent injury to the cornea and conjunctiva in documented exposure cases with human or rabbit eyes.
Inhalation	Harmful by inhalation. Inhalation of dust may irritate the respiratory system.
Ingestion	Harmful if swallowed. Ingestion of this product may irritate the gastric tract, causing nausea and vomiting.
Skin	May be irritating to skin. Skin contact may cause redness and itchiness.
Eye	Risk of serious damage to eyes. Eye contact can cause severe irritation, tearing, stinging, blurred vision and redness. It can cause permanent eye injury if not washed off immediately.
Chronic Effects	Prolonged or repeated exposure to dust by inhalation may lead to respiratory disorders.

12. ECOLOGICAL INFORMATION

Ecotoxicity	This substance is very ecotoxic in the aquatic environment.
Persistence / Degradability	Not available
Mobility	Not available
Bioaccumulative Potential	Not available
Environment Protection	Do not allow product to enter drains, waterways or sewers.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.
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14. TRANSPORT INFORMATION

Transport Information	Australia: Not classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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New Zealand:
Not classified as Dangerous Goods for transport according to the NZS 5433:1999 Transport of Dangerous Goods on Land.

15. REGULATORY INFORMATION

Regulatory Information	Australia: Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia. Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
Poisons Schedule	Not Scheduled
National and or International Regulatory Information	New Zealand: Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. ERMA Approval Code: HSR003684; C.I. Basic Violet 3.
Hazard Category	Harmful,Irritant
AICS (Australia)	All constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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