

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Material Name:** Gentian Violet.  
**Catalogue Number:** C095, C0951, C0955.  
**Other Names:** Crystal violet; C.I. 45255, BasicViolet 3.  
**Recommended Use:** Biological Stain.

**Supplier Name:** ProSciTech  
**Street Address:** 1/11 Carlton Street, Kirwan, Qld. 4817 Australia  
**Telephone Number:** (07) 4773 9444 **Fax Number:** (07) 4773 2244  
**Emergency Contact:** (07) 4773 9444 8:30am – 5:00pm, Monday to Friday

## SECTION 2 - HAZARDS IDENTIFICATION

**Hazard Classification:** Hazardous according to criteria of NOHSC.  
**Hazardous and/or Dangerous Nature:** HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.  
**Risk Phrases:** R22 Harmful if swallowed.  
R40 Limited evidence of a carcinogenic effect.  
R41 Risk of serious eye damage.  
R50/53 Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.  
**Safety Phrases:** S2 Keep out of reach of children.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S46 If swallowed, seek medical advice immediately and show this container or label.  
S60 This material and its container must be disposed of as hazardous waste.  
S61 Avoid release to the environment. Refer to special instructions/Material Safety Data Sheets.

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

**SUBSTANCE:** **Chemical Identity:** Gentian Violet.  
**Common Name(s):** Crystal violet; C.I. 45255, BasicViolet 3.  
**CAS Number(s):** 548-62-9

MIXTURE:	Ingredients	Cas Number(s)	Proportion (%)
	Gentian Violet	548-62-9	90-100

## SECTION 4 - FIRST AID MEASURES

**Swallowed:** If victim is conscious and alert, give 2-4 cupfuls of water or milk to drink. Never give anything by mouth to an unconscious person. Do Not induce vomiting. Get medical attention if irritation or symptoms appear.

**Eye:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**Skin:** Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

**Inhaled:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if cough or other symptoms appear.

**First Aid Facilities:** Eyebath/eyewash & Safety shower.

**Medical Attention & Special Treatment:** Treat symptomatically and supportively.

**ADDITIONAL INFORMATION:**

## SECTION 5 - FIRE FIGHTING MEASURES

### Suitable Extinguishing Media:

Use extinguishing media most appropriate for the surrounding fire. Use water spray, dry chemical, alcohol foam, or carbon dioxide.

### Hazards from Combustion Products:

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Carbon monoxide, Carbon dioxide, Nitrogen oxides, Hydrogen Chloride gas.

### Precautions for Fire Fighters:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

### Hazchem Code:

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

### Emergency Procedures:

#### Containment and clean up:

Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust. Use precautions as indicated in the Section 8. Provide ventilation.

## SECTION 7 - HANDLING & STORAGE

### Precautions for Safe Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use adequate ventilation. Keep container tightly closed. Do not get in skin or in eyes. Do Not ingest or inhale.

### Conditions for Safe Storage:

Do not store in direct sunlight. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards:** No exposure standard allocated.

**Biological Limit Values:** No biological limit allocated.

### Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Use adequate ventilation to keep airborne concentrations low.

### Personal Protective Equipment:

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.

**Skin:** Wear protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

## SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance:</b>	Dark green crystalline powder.
<b>Odour:</b>	Not available.
<b>pH:</b>	Not available.
<b>Vapour pressure (mm of Hg at 25°C):</b>	Not available.
<b>Vapour density:</b>	Not available.
<b>Boiling point/range (°C):</b>	Not applicable.
<b>Freezing/melting point (°C):</b>	215°C.
<b>Solubility:</b>	Water soluble. Other Solvents: Chloroform, Ethanol.
<b>Specific gravity or density:</b>	Not available.
<b>Flash Point:</b>	Not available.
<b>Flammable (explosive) limits:</b>	Not available.
<b>Ignition temperature:</b>	Not available.
<b>Additional Information:</b>	

## SECTION 10 - STABILITY AND REACTIVITY

**Chemical stability:** Stable under normal conditions of use.

<b>Conditions to avoid:</b>	Incompatible material.
<b>Incompatible Materials:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Carbon monoxide, Carbon dioxide, Nitrogen oxides, Hydrogen Chloride gas.
<b>Hazardous Reactions:</b>	Will not occur

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Exposure and Health Effects:

#### Ingestion:

Toxic. Results in symptoms of nausea, vomiting, diarrhea, and abdominal pain. Severe systemic poisonings have not been reported in man, but animal studies have shown blood pressure rise and death from respiratory paralysis..

#### Inhalation:

Inhalation of dust may irritate the mucous membranes and upper respiratory tract.

#### Skin Contact:

May cause irritation. Can stain area of contacted skin.

#### Eye Contact:

Causes severe irritation. Contact may cause permanent eye damage.

#### Human/Animal data:

Oral rat: LD50 = 420 mg/kg

Oral mouse: LD50 = 96 mg/kg

Oral rabbit: LD50 = 150 mg/kg

Teratogenicity: Embryo or Fetus: Stunted fetus, oral-rabbit TDLo=7mg/kg. Specific

Developmental Abnormalities: Musculoskeletal, oral-rat TDLo=10mg/kg.

Reproductive Effects: Fertility: Post-implantation mortality, oral-rat TDLo=40mg/kg.

Mutagenicity: Please refer to RTECS # BO9000000 for specific information.

#### Carcinogenicity:

HSIS lists as a Category 3 Carcinogen: Unclassifiable as to carcinogenicity in humans.

## SECTION 12 – ECOLOGICAL INFORMATION

**Ecotoxicity:** Not available.

**Persistence and degradability:** Not available.

**Mobility:** Not available.

**Additional Information:** Not available.

## SECTION 13 - DISPOSAL CONSIDERATIONS

### Disposal Methods:

Dispose of in accordance to local, state and federal laws.

### Special Precautions:

## SECTION 14 - TRANSPORT INFORMATION

**UN Number:** Not regulated.

**UN Proper Shipping Name:** Not regulated.

**Class and Subsidiary risk:** Not regulated.

**Packing Group:** Not regulated.

**Special Precautions for User:**

**Hazchem Code:**

## SECTION 15 - REGULATORY INFORMATION

**Poison Schedule Number:** None allocated.

## SECTION 16 - OTHER INFORMATION

Date of preparation of MSDS: November 09

Comments:

The information published in this Material Safety Data Sheet has been compiled from data in various technical publications. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. We reserve the right to revise material Safety Data Sheets as new information becomes available. Copies may be made for

non-profit use.