

SAFETY DATA SHEET (SDS)



Crystal violet, 0.5%

Issue date: 10-09-2025

Section 1: Product Identifier and Chemical Identity

Product Identifier	
Product Name:	Crystal violet, 0.5%
Product Codes:	SI6/100, SI6/500
Other means of identification:	
Chemical formula, alternative names:	$C_{25}H_{30}ClN_3(aq)$ Basic violet 3 Aniline violet 4-{Bis[4-(dimethylamino)phenyl]methylidene}-N,N-dimethylcyclohexa-2,5-dien-1-iminium chloride
Recommended use of the chemical and restrictions on use	
Recommended Use:	For laboratory use only.
Suppliers name, address and phone number	
Supplier's Name:	Southern Biological
Supplier's ABN:	94 630 703 810
Supplier's Address:	168 Fulham Road Alphington Victoria 3078 Australia
Supplier's Phone No.:	1300 138 561
Emergency Phone number (BH)	1300 138 561

Section 2: Hazard Identification

Classification of the Hazardous Chemical	
Hazard Category	Acute toxicity category 4 Hazardous to the aquatic environment (acute) category 2 Hazardous to the aquatic environment (chronic) category 2
Label elements	
Hazard Pictograms:	  exclamation mark environment
Signal Word:	Warning
Hazard Statements:	Harmful if swallowed Toxic to aquatic life with long lasting effects
Precautionary Statements:	Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not ingest.
Other Hazards	
Results of PBT and vPvB assessment:	PBT: Not applicable vPvB: Not applicable

Section 3: Composition/information on ingredients

Ingredients		
Name	CAS	Proportion
Water	7732-18-5	99.5%
Crystal violet	548-62-9	0.5%

Section 4: First Aid Measures

Necessary first aid measures	
After inhalation:	Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms; call a doctor.
After skin contact:	Wash with water and soap and rinse thoroughly. If skin irritation occurs: Get medical advice/ attention.
After eye contact:	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
After swallowing:	DO NOT INDUCE VOMITING. Wash out mouth with water. Obtain emergency medical attention. Call a POISON CENTRE or doctor/physician if you feel unwell.
Medical attention and special treatment	
Indications of any immediate medical attention and special treatment needed	Treat symptomatically

Section 5: Firefighting measures

Extinguishing media	
Suitable extinguishing equipment:	Water spray, carbon dioxide, chemical foam or dry chemical
Specific hazards arising from the chemical:	No further relevant information available.
Advice for firefighters	
Special protective equipment and precautions:	Do not enter the fire area without proper protective equipment including respiratory equipment.

Section 6: Accidental release measures

General Information	
Personal precautions, protective equipment and emergency procedures:	Follow personal protective equipment recommendations found in Section 8 of this SDS. Prevent the spread of any spill to minimise harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum.
Environmental precautions:	Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if spill to sewers or public waters.
Methods and material for containment and cleaning up:	Dispose of contaminating material as waste according to item 13. Ensure adequate ventilation.
Reference to other sections:	See Section 7 for information on safe handling. See Section 8 for information on protective equipment. See Section 13 for disposal information.

Section 7: Handling and Storage

General Information	
Precautions for safe handling:	Avoid contact with skin and eyes. Avoid breathing vapour. Ensure good ventilation/exhaustion at the workplace. Wash hands after use. Do not eat, drink or smoke when using this product. Wash contaminated clothing and protective equipment prior to entering eating area.
Information about fire – and explosion protection:	No special measures required.
Conditions for safe storage, including any incompatibilities.	
Storage:	Store in cool dry area out of direct sunlight and incompatible materials. Keep containers closed when not in use. Store in suitably labelled containers.
Requirements to be met by storerooms and receptacles:	No special requirements.
Information about storage in one common storage facility:	Not required.
Further information about storage conditions:	Keep container tightly sealed. Keep out of direct sunlight.

Section 8: Exposure controls/personal protection.

General information	
Additional information about design of technical facilities:	No further data: see section 7
Control parameters:	
Ingredients with limit values that require monitoring at the workplace: None	
Exposure Controls:	
General protective and hygienic measures:	Use only in systems, processes and procedures in which effective ventilation has been provided. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with eyes.
Respiratory protection:	In case of significant exposure use respiratory filter device. Not normally required.
Clothing / Foot-wear and equipment	No special requirements.
Protection of hands:	PVC or rubber gloves
Eye protection:	Tightly sealed goggles
Skin protection:	Laboratory Coat

Section 9: Physical and chemical properties

Appearance:	
Form:	Liquid
Colour:	Dark purple
Odour:	Odourless
Odour Threshold:	Not determined

pH value:	Not determined
Change in Condition:	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined
Flash point:	Not determined
Flammability (solid / gaseous)	Not determined
Ignition Temperature	
Decomposition temperature:	Not determined
Self-igniting:	Not determined
Danger of explosion:	Not explosive
Explosion limits	
Lower:	Not determined
Upper:	Not determined
Vapour pressure:	Not determined
Density:	Not determined
General Info	
Relative density:	Not determined
Vapour density:	Not determined
Evaporation rate:	Not determined
Solubility in/ Miscibility with water:	Miscible
Partition coefficient (n-octanol/water):	Not determined
Viscosity:	Not determined
Other information:	Not determined

Section 10: Stability and reactivity

Reactivity	
General	No further relevant information available.
Chemical Stability	
Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
Possibility of hazardous reactions:	No dangerous reactions known.
Conditions to avoid:	Fire, static electricity, direct sunlight
Incompatible materials:	Slightly reactive to reactive with oxidising agents
Hazardous decomposition products:	Carbon monoxide, carbon dioxide

Section 11: Toxicological information

Information on toxicological effects			
Ingestion:	Harmful if swallowed		
Skin corrosion/irritation	Irritating to skin and mucous membranes		
Serious eye damage/irritation:	Irritating to eye		
Inhalation:	No relevant data available		
Germ cell mutagenicity:	No relevant data available		
Carcinogenicity:	Not listed at this concentration		
Reproductive toxicity:	No relevant data available		
Specific target organ toxicity (STOT) – single exposure:	No relevant data available		
Specific target organ toxicity (STOT) – repeated exposure:	No relevant data available		
Toxicology data for the components:			
Component	LD50 oral	LD50 oral	LD50 oral
Crystal violet	Rat – 420 mg/kg	Dog – 1000 mg/kg	Rabbit – 150 mg/kg

Section 12. Ecological information

Ecotoxicity		
Toxicity to fish	LC50 – Pimephales promelas (fathead minnow) – 0.13 mg/L – 96hr	
Toxicity to daphnia	EC50 (static test) – Daphnia magna (water flea) - > 0.25 - < 0.5 mg/L – 48hr	
Toxicity to algae	ErC50 (static test) – Pseudokirchneriella subcapitata (green algae) - > 0.2 - < 0.8 mg/L – 72hr	
Toxicity to bacteria	EC50 10 – 100 mg/L	
Persistence and degradability:		Not readily biodegradable
Behaviour in environmental systems		
Bio-accumulative potential:		No further relevant information available.
Mobility in soil:		No further relevant information available.
Additional ecological information		
Results of PBT and vPvB assessment		PBT: Not applicable vPvB: Not applicable
Other adverse effects:		No further relevant information available.

Section 13. Disposal Considerations

Waste treatment methods	
Recommendation	Prevent this material from entering waterways, drains and sewers. Comply with official regulations.
Uncleaned packaging:	
Recommendation:	Disposal must be made according to official regulations.
Recommended cleansing agents:	Water, if necessary, together with cleansing agents.

Section 14. Transport information

General	UN number: 3082 Proper shipping name or technical name: Environmentally hazardous substance, liquid, N.O.S. (basic violet 3) Transport hazard class: 9 (above 5L) Packing group number: III
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Section 15. Regulatory Information

Safety health and environmental regulations/legislation specific for the substance or mixture	
Australian Inventory of Chemical Substances:	Substances are listed.
Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

Section 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- End of SDS -