

Date of Issue/re-issue: 30/01/2019

Expiry: 01/02/2024

**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Company Name **ECP Limited**  
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<b>Product</b>	Gentian Violet				<b>Code</b>	20707a
<b>CAS#</b>	<b>HSNO#</b>	<b>UN #</b>	<b>DG Class/es</b>	<b>Packing group #</b>	<b>Tracking?</b>	<b>Handlers Certificate?</b>
548-62-9	HSR003684	3077	9	III	No	6.1C

**Recommended use:** Laboratory Investigations

**2. Hazards identification**

2.1 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)



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.
- 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.

2.3 Other hazards

None

### 3. Composition/information on ingredients

3.1 Substances Synonyms:

Basic Violet 3

Methyl Violet 10B

Hexamethylpararosaniline chloride

Crystal Violet

Formula:  $C_{25}H_{30}ClN_3$

Molecular weight: 407.98 g/mol

Component	Concentration
Gentian violet	
CAS No.	548-62-9
	<=100%

### 4. First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Prolonged or repeated exposure can cause nausea, headache, vomiting

4.3 Indication of any immediate medical attention and special treatment needed

No data available

### 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NO<sub>x</sub>), hydrogen chloride gas

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

### 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### **7. Handling and storage**

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Light sensitive.

#### 7.3 Specific end use(s)

No data available

### **8. Exposure controls/personal protection**

#### 8.1 Control parameters

##### Occupational Exposure Limits

We are not aware of any national exposure limit.

#### 8.2 Exposure controls

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

##### Personal protective equipment

###### Eye/face protection

Face shield and safety glasses

Use equipment for eye protection tested and approved under appropriate government standards.

###### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

###### Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

###### Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

###### Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

###### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

## 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties a) Appearance Form: powder Colour: dark green b) Odour No data available c) Odour Threshold No data available d) pH 2.5 - 3.5 at 10 g/l at 20 °C e) Melting point/freezing point Melting point/range: 205 °C - dec.

## 10. Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

No data available

## 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Mouse - 96 mg/kg

LD50 Oral - Rabbit - 150 mg/kg

LD50 Intraperitoneal - Rat - 8.9 mg/kg

LD50 Intraperitoneal - Mouse - 5.1 mg/kg

LD50 Intraperitoneal - Rabbit - 5 mg/kg

LD50 Intraduodenal - Rabbit - 160 mg/kg

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

Severe eye irritation

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

Genotoxicity in vitro - Human - HeLa cell

DNA inhibition

Genotoxicity in vitro - Human - HeLa cell

Cytogenetic analysis

Genotoxicity in vitro - Human - lymphocyte

Cytogenetic analysis

Genotoxicity in vitro - Rat - Liver

DNA inhibition

Genotoxicity in vitro - Mouse - lymphocyte

DNA damage

Genotoxicity in vitro - Hamster - ovary

Cytogenetic analysis

Genotoxicity in vitro - Mammal - lymphocyte

DNA damage

Genotoxicity in vitro - Mammal - Other cell types

Cytogenetic analysis

Genotoxicity in vitro - Non-mammalian - Other cell types  
Cytogenetic analysis  
Genotoxicity in vitro - Equivocal evidence.  
Histidine reversion (Ames)  
Carcinogenicity  
Limited evidence of a carcinogenic effect.  
Reproductive toxicity  
No data available  
Specific target organ toxicity - single exposure  
No data available  
Specific target organ toxicity - repeated exposure  
No data available  
Aspiration hazard  
No data available  
Potential health effects  
Inhalation  
May be harmful if inhaled. May cause respiratory tract irritation.  
Ingestion  
Harmful if swallowed.  
Skin  
May be harmful if absorbed through skin. May cause skin irritation.  
Eyes  
Causes eye burns.  
Signs and Symptoms of Exposure  
Prolonged or repeated exposure can cause nausea, headache, vomiting.  
Additional Information  
RTECS: BO9000000

## **12. Ecological information**

### 12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 0.35 mg/l - 48 h

Method: OECD Test Guideline 202

Toxicity to algae

EC50 - Pseudokirchneriella subcapitata - 0.42 mg/l - 72 h

Method: OECD Test Guideline 201

### 12.2 Persistence and degradability

Biodegradability

Result: 10 % - Not readily biodegradable.

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

## **13. Disposal considerations**

### 13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

#### 14. Transport Information Table

		<b>ADR/RID – European packaging certification</b>	<b>IMDG International Maritime Dangerous Goods Code</b>	<b>IATA – DGR International Air Travel Association – Dangerous Goods Regulations</b>
<b>14.1</b>	<b>UN Number</b>	3077	3077	3077
<b>14.2</b>	<b>UN Proper Shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (C.I. Basic violet 3)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (C.I. Basic violet 3)	Environmentally hazardous substance, solid, n.o.s. (C.I. Basic violet 3)
<b>14.3</b>	<b>Transport Hazard Class</b>	9	9	9
<b>14.4</b>	<b>Packaging group</b>	III	III	III
<b>14.5</b>	<b>Environmental Hazards</b>	Yes	Yes	Yes
<b>14.6</b>	<b>Special precautions for user</b>	EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.		

#### 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information

HSNO Approval Code: HSR003684

HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals and Reagent Kits Group Standard 2006

Tracking Required: not required

Approved Handler Cert.: 6.1C

#### 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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