



# Qualikems Lifesciences Pvt. Ltd.

(Formerly known as Qualikems fine chem Pvt Ltd)

Works : Plot No. 68-69,G.I.D.C Industrial Estate,Nandesari,Vadodara-391340 (Gujarat)

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### Product identifiers

Product name : **Gentian Violet**

CAS-No. : **548-62-9**

### Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Industrial & for professional use only.

### Details of the supplier of the safety data sheet

Company : Qualikems Lifesciences Pvt Ltd

Works : Plot No. 68.69,G.I.D.C  
Industrial Estate, Nandesari,  
Vadodara-391340 (Gujarat)

### Emergency telephone number

Emergency Phone # : +91-265-2841531 (9:00am - 6:30 pm) [Office hours]

## SECTION 2: Hazards identification

### Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), H302  
Serious eye damage (Category 1), H318  
Carcinogenicity (Category 2), H351  
Acute aquatic toxicity (Category 1), H400  
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

### Label elements

#### Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Hazard statement(s)

H302

Harmful if swallowed.

H318

Causes serious eye damage.

H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/ container to an approved waste disposal plant.
Supplemental Hazard Statements	none

#### Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Synonyms : Basic Violet 3  
Methyl Violet 10B  
Hexamethylpararosaniline chloride  
Gentian Violet  
Crystal Violet

Formula : C<sub>25</sub>H<sub>30</sub>ClN<sub>3</sub>  
Molecular weight : 407.98 g/mol  
CAS-No. : 548-62-9  
EC-No. : 208-953-6  
Index-No. : 612-204-00-2

#### Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
<b>C.I. Basic violet 3</b>	Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)	
CAS-No.	548-62-9	Acute Tox. 4; Eye Dam. 1; <= 100 %
EC-No.	208-953-6	Carc. 2; Aquatic Acute 1;
Index-No.	612-204-00-2	Aquatic Chronic 1; H302, H318, H351, H400, H410
		M-Factor - Aquatic Acute: 10

For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4: First aid measures

#### 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.

**Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**Indication of any immediate medical attention and special treatment needed**

No data available

**SECTION 5: Firefighting measures****Extinguishing media Suitable****extinguishing media**

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

**Special hazards arising from the substance or mixture**

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Hydrogen chloride gas

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Further information**

No data available

**SECTION 6: Accidental release measures****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.

For personal protection see section 8.

**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.

**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.

**Reference to other sections**

For disposal see section 13.

**SECTION 7: Handling and storage****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.

For precautions see section 2.2.

**Conditions for safe storage, including any incompatibilities**

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

Light sensitive.

Storage class (TRGS 510): Non Combustible Solids

**Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**SECTION 8: Exposure controls/personal protection****Control parameters****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 such as NIOSH (US) or EN 166(EU).

### 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.

### 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 (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

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

## SECTION 9: Physical and chemical properties

### 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.
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	1.190 g/cm <sup>3</sup> at 20 °C
n) Water solubility	soluble
o) Partition coefficient: n-octanol/water	log Pow: 1.172 at 25 °C

- |                              |                   |
|------------------------------|-------------------|
| p) Auto-ignition temperature | > 190 °C          |
| q) Decomposition temperature | No data available |
| r) Viscosity                 | No data available |
| s) Explosive properties      | No data available |
| t) Oxidizing properties      | No data available |

**Other safety information**

Bulk density	220 - 400 kg/m <sup>3</sup>
Surface tension	44.2 mN/m

**SECTION 10: Stability and reactivity**

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

No data available

**Conditions to avoid**

No data available

**Incompatible materials**

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Hydrogen chloride gas

Other decomposition products - No data available

In the event of fire: see section 5

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

LD50 Oral - Mouse - 96 mg/kg(C.I. Basic violet 3)

LD50 Oral - Rabbit - 150 mg/kg(C.I. Basic violet 3)

LD50 Intraperitoneal - Rat - 8.9 mg/kg(C.I. Basic violet 3) LD50

Intraperitoneal - Mouse - 5.1 mg/kg(C.I. Basic violet 3) LD50

Intraperitoneal - Rabbit - 5 mg/kg(C.I. Basic violet 3) LD50

Intraduodenal - Rabbit - 160 mg/kg(C.I. Basic violet 3)

**Skin corrosion/irritation**

No data available(C.I. Basic violet 3)

**Serious eye damage/eye irritation**

Severe eye irritation(C.I. Basic violet 3)

**Respiratory or skin sensitisation**

No data available(C.I. Basic violet 3)

### **Germ cell mutagenicity**

Human(C.I. Basic violet 3)

HeLa cell

DNA inhibition

Human(C.I. Basic violet 3)

HeLa cell

Cytogenetic analysis

Human(C.I. Basic violet 3)

lymphocyte

Cytogenetic analysis

Rat(C.I. Basic violet 3)

Liver

DNA inhibition

Mouse(C.I. Basic violet 3)

lymphocyte

DNA damage

Hamster(C.I. Basic violet 3)

ovary

Cytogenetic analysis

Mammal(C.I. Basic violet 3)

lymphocyte

DNA damage

Mammal(C.I. Basic violet 3)

Other cell types

Cytogenetic analysis

Non-mammalian(C.I. Basic violet 3)

Other cell types

Cytogenetic analysis

Result: Equivocal evidence.

Histidine reversion (Ames)

### **Carcinogenicity**

Limited evidence of a carcinogenic effect.(C.I. Basic violet 3)

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### **Reproductive toxicity**

No data available(C.I. Basic violet 3)

#### **Specific target organ toxicity - single exposure**

No data available(C.I. Basic violet 3)

#### **Specific target organ toxicity - repeated exposure**

No data available

#### **Aspiration hazard**

No data available(C.I. Basic violet 3)

#### **Additional Information**

RTECS: BO9000000

prolonged or repeated exposure can cause:, Nausea, Headache, Vomiting(C.I. Basic violet 3)

## SECTION 12: Ecological information

### Toxicity

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (W ater flea) - 0.35 mg/l - 48 h(C.I. Basic violet 3) (OECD Test Guideline 202)

Toxicity to algae EC50 - Pseudokirchneriella subcapitata - 0.42 mg/l - 72 h(C.I. Basic violet 3) (OECD Test Guideline 201)

### Persistence and degradability

Biodegradability Result: 10 % - Not readily biodegradable.

Ratio BOD/ThBOD 0.12 %(C.I. Basic violet 3)

### Bioaccumulative potential

No data available

### Mobility in soil

No data available(C.I. Basic violet 3)

### Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### Other adverse effects

Very toxic to aquatic life with long lasting effects.

## SECTION 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 chem scrubber.

#### Contaminated packaging

Dispose of as unused product.

## SECTION 14: Transport information

### UN number

ADR/RID: 3077

IMDG: 3077

IATA: 3077

### UN proper shipping name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (C.I. Basic violet 3)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (C.I. Basic violet 3)

IATA: Environmentally hazardous substance, solid, n.o.s. (C.I. Basic violet 3)

### Transport hazard class(es)

ADR/RID: 9

IMDG: 9

IATA: 9

### Packaging group

ADR/RID: III

IMDG: III

IATA: III

### Environmental hazards

ADR/RID: yes

IMDG Marine pollutant: no

IATA: yes

### Special precautions for user

#### Further information

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.

## **SECTION 15: Regulatory information**

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### **Authorisations and/or restrictions on use**

#### **Chemical safety assessment**

For this product a chemical safety assessment was not carried out

## **SECTION 16: Other information**

### **Full text of H-Statements referred to under sections 2 and 3.**

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Qualikems Lifesciences Pvt. Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.qualikems.com](http://www.qualikems.com) for additional terms and conditions of sale.