



**Methyl violet**

Revision date: 29.05.2017

Product code: 1B-409\_417

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

**1.1. Product identifier**

Methyl violet

**Further trade names**

1B-409 Dahlia Violet B (Dahliaviolett)

1B-411 Gentian Violet, Pyoktanin Cörlum (Gentianaviolett, Pyokt. Cörlum)

1B-413 Hofmann's Violet (Hofmann's Violet)

1B-415 Methyl Violet (Methylviolett)

1B-417 Methyl Violet BB (Methylviolett BB)

CAS No: 548-62-9

Index No: 612-205-00-8

EC No: 208-953-6

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Use of the substance/mixture**

Use as laboratory reagent

**1.3. Details of the supplier of the safety data sheet**

Company name: Waldeck GmbH & Co KG

Division Chroma

Street: Havixbecker Str. 62

Place: D-48161 Münster

Post-office box: 410180

D-48065 Münster

Telephone: +49(0)180/2247662

Telefax: +49(0)180/1247662

Responsible Department: Labor

Mo. – Do.: 08.00 – 17.00 Uhr, Fr.: 08.00 – 15.00 Uhr

**1.4. Emergency telephone number:**

+49(0)180/2247662

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Regulation (EC) No. 1272/2008**

Hazard categories:

Carcinogenicity: Carc. 2

Acute toxicity: Acute Tox. 4

Hazardous to the aquatic environment: Aquatic Acute 1 (M-Factor (self-classification) = 10)

Hazard Statements:

Harmful if swallowed.

Suspected of causing cancer.

Very toxic to aquatic life.

**2.2. Label elements**

**Regulation (EC) No. 1272/2008**

**Hazard components for labelling**

Methyl violet

**Signal word:** Warning

**Pictograms:**





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**Hazard statements**

H302 Harmful if swallowed.  
H351 Suspected of causing cancer.  
H400 Very toxic to aquatic life.

**Precautionary statements**

P273 Avoid release to the environment.  
P308+P313 IF exposed or concerned: Get medical advice/attention.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

**Hazardous components**

| CAS No    | Chemical name  |          |          | Quantity |
|-----------|--|----------|----------|----------|
|           | EC No  | Index No | REACH No |          |
|           | Classification according to Regulation (EC) No. 1272/2008 [CLP]        |          |          |          |
| 8004-87-3 | Methyl violet  |          |          | 100 %    |
|           | 208-953-6  |          |          |          |
|           | Carc. 2, Acute Tox. 4, Aquatic Acute 1 (M-Factor = 10); H351 H302 H400 |          |          |          |

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary.

**After contact with skin**

Wash with plenty of water. Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Medical treatment necessary.

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

No information available.

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

Treat symptomatically.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.



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

Non-flammable. In case of fire may be liberated: Hazardous combustion products

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

**Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up**

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid generation of dust. Do not breathe dust.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

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

**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations.

**Advice on storage compatibility**

No special measures are necessary.

**7.3. Specific end use(s)**

Use as laboratory reagent

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**8.2. Exposure controls**



**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.



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**Protective and hygiene measures**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.  
Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

|                 |                |
|-----------------|----------------|
| Physical state: | solid          |
| Colour:         | green          |
| Odour:          | characteristic |

|                      |       |
|----------------------|-------|
| pH-Value (at 25 °C): | ~ 4,3 |
|----------------------|-------|

**Changes in the physical state**

|                |        |
|----------------|--------|
| Melting point: | 137 °C |
|----------------|--------|

|  |                |
|--|----------------|
| Initial boiling point and boiling range: | not determined |
|--|----------------|

|              |                |
|--------------|----------------|
| Flash point: | not applicable |
|--------------|----------------|

**Flammability**

|        |                |
|--------|----------------|
| Solid: | not determined |
|--------|----------------|

|      |                |
|------|----------------|
| Gas: | not applicable |
|------|----------------|

|                         |                |
|-------------------------|----------------|
| Lower explosion limits: | not determined |
|-------------------------|----------------|

|                         |                |
|-------------------------|----------------|
| Upper explosion limits: | not determined |
|-------------------------|----------------|

**Auto-ignition temperature**

|        |                |
|--------|----------------|
| Solid: | not determined |
|--------|----------------|

|      |                |
|------|----------------|
| Gas: | not applicable |
|------|----------------|

|                            |                |
|----------------------------|----------------|
| Decomposition temperature: | not determined |
|----------------------------|----------------|

**Oxidizing properties**

Not oxidizing.

|                  |                |
|------------------|----------------|
| Vapour pressure: | not determined |
|------------------|----------------|

|          |                |
|----------|----------------|
| Density: | not determined |
|----------|----------------|

|                          |             |
|--------------------------|-------------|
| Bulk density (at 20 °C): | ~ 380 kg/m³ |
|--------------------------|-------------|

|                                 |          |
|---------------------------------|----------|
| Water solubility:<br>(at 25 °C) | ~ 30 g/L |
|---------------------------------|----------|

**Solubility in other solvents**

not determined

|                        |                |
|------------------------|----------------|
| Partition coefficient: | not determined |
|------------------------|----------------|



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Vapour density: not determined

Evaporation rate: not determined

**9.2. Other information**

Solid content: not determined

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Violent reaction with: Oxidising agent, strong

**10.4. Conditions to avoid**

none

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

Harmful if swallowed.

| CAS No    | Chemical name  |                |         |        |        |
|-----------|----------------|----------------|---------|--------|--------|
|           | Exposure route | Dose           | Species | Source | Method |
| 8004-87-3 | Methyl violet  |                |         |        |        |
|           | oral           | LD50 413 mg/kg | Rat     | GESTIS |        |

**Irritation and corrosivity**

Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Suspected of causing cancer. (Methyl violet)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Additional information on tests**

Substance related information: dangerous health properties, Special hazards arising from the substance or mixture, Classification according to Regulation (EC) No. 1272/2008 [CLP]



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**SECTION 12: Ecological information**

**12.1. Toxicity**

Very toxic to aquatic organisms.

| CAS No    | Chemical name            |              |           |         |   |        |
|-----------|--------------------------|--------------|-----------|---------|---|--------|
|           | Aquatic toxicity         | Dose         | [h]   [d] | Species | Source                                  | Method |
| 8004-87-3 | Methyl violet            |              |           |         |   |        |
|           | Acute fish toxicity      | LC50<br>mg/l | 0,047     | 96 h    | Pimephales promelas<br>(fathead minnow) | GESTIS |
|           | Acute crustacea toxicity | EC50         | 420 mg/l  | 48 h    | Daphnia magna (Big<br>water flea)       |        |

**12.2. Persistence and degradability**

The product has not been tested.

**12.3. Bioaccumulative potential**

The product has not been tested.

**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

The product has not been tested.

**12.6. Other adverse effects**

Toxic to aquatic life.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Advice on disposal**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

**Contaminated packaging**

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.1. UN number:**

UN 3077

**14.2. UN proper shipping name:**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Methylviolett)

**14.3. Transport hazard class(es):**

9

**14.4. Packing group:**

III

Hazard label:

9



Classification code:

M7

Special Provisions:

274 335 375 601

Limited quantity:

5 kg



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Excepted quantity: E1  
Transport category: 3  
Hazard No: 90  
Tunnel restriction code: E

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 3077  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Methylviolett)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
Hazard label: 9



Classification code: M7  
Special Provisions: 274 335 375 601  
Limited quantity: 5 kg  
Excepted quantity: E1

**Marine transport (IMDG)**

**14.1. UN number:** UN 3077  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Methyl violet)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
Hazard label: 9



Special Provisions: 274, 335, 966, 967, 969  
Limited quantity: 5 kg  
Excepted quantity: E1  
EmS: F-A, S-F

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN 3077  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Methyl violet)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
Hazard label: 9



Special Provisions: A97 A158 A179 A197  
Limited quantity Passenger: 30 kg G  
Passenger LQ: Y956  
Excepted quantity: E1  
IATA-packing instructions - Passenger: 956  
IATA-max. quantity - Passenger: 400 kg



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IATA-packing instructions - Cargo:

956

IATA-max. quantity - Cargo:

400 kg

**14.6. Special precautions for user**

No information available.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

**SECTION 15: Regulatory information**

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

**EU regulatory information**

**Additional information**

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D):

3 - highly water contaminating

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information**

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

**Relevant H and EUH statements (number and full text)**

H302 Harmful if swallowed.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.