
MATERIAL SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifiers**

Product name: Crystal Violet Oxalate
Product code: MIC204
Brand: Solmedia Ltd

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

Identified uses: PC21: Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

Name of Supplier: Solmedia Ltd.
Address of Supplier: Unit 2, Vernon Drive
Battlefield Enterprise Park
Shrewsbury
SY1 3TF
UK
Telephone: 0844 80 80 900
Email: labsupplies@solmedialtd.com

1.4 Emergency telephone number

Emergency Phone: +44 (0)844 80 80 900

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Classification under CLP: Regulation (EC) No. 1272/2008 [CLP]

Hazard Class	Hazard Category	Hazard Statement
Flammable liquid	Category 3	H226
Carcinogenicity	Category 2	H351
Eye irritation	Category 2	H319

2.2 Label elements 2.3 Other hazards

Hazard Statements: H226 Flammable liquid and vapour.
H351 Suspected of causing cancer.
H319 Causes serious eye irritation.

Precautionary statements:

Prevention	P280 Wear protective gloves/protective clothing/eye and face protection
	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response	P308+P313 IF exposed or concerned. Get medical advice attention
	P403+P235 Store in a well ventilated place. Keep cool.

PBT: This product is not identified as a PBT/vPvB substance.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Hazardous ingredients Classification according to Regulation (EC) No. 1272/2008 [CLP]

			Classification (Regulation (EC) No 1272/2008 [CLP])	
Hazardous Components		Amount [%]	Hazard class/ Hazard category	Hazard Statements
Name:	Ethanol	18-20- %	FLAM. LIQ. CAT. 2.	H314
CAS NO.	64-17-5			
EC-NO.	200-578-6			
Name:	Crystal violet	1.5- 2.5%	ACUTE TOX. ORAL CAT 4. EYE DAM. CAT. 1. CARC CAT. 2. AQUA. ACUTE CAT. 1. AQUA. CHR.	H302 H318 H351 H400 H410
CAS NO.	548-62-9			
EC-NO.	208-953-6			
Name:	Ammonium oxalate	0.5-1%	ACUTE TOX. CAT. 4. DERMAL. ACUTE TOX. ORAL CAT. 4.	H312 H302
CAS NO.	6009-70-7			
EC-NO.	238-135-4			
Name:	Methanol	<1.0%	FLAM. LIQ. CAT. 2. ACUTE TOX. CAT. 3. STOT. SE. CAT. 1.	H225 H301, H311 H370
CAS NO.	67-56-1			
EC-NO.	200-659-6			

SECTION 4: First aid measures**4.1 Description of first aid measures**

IF exposed: Keep patient calm and seek immediate medical attention.

After Inhalation

Get medical advice/attention. Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. Get medical advice/attention.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

In case of ingestion

Get medical advice/attention. Do NOT induce vomiting. Rinse mouth thoroughly with water. Give nothing to eat or drink.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Not applicable.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2 Special hazards arising from the substance or mixture

In combustion emits toxic fumes.

5.3 Advice for firefighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2 Environmental precautions

Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3 Methods and materials for containment and cleaning up

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4 Reference to other sections

Refer to section 8 of SDS.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Normal measures for preventive fire protection.
 For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool, well ventilated area. Keep container tightly closed.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Hazardous ingredients:

Component	CAS-No	Value	Control Parameters	Basis
Crystal Violet	548-62-9	TWA LTEL – 8h	10mg/m ³	UK.EH40 WEL- Workplace Exposure limit
Methanol	67-56-1	TWA LTEL – 8h STEL – 15mins	200 ppm – 266mg/m ³ 250 ppm – 333g/m ³	UK.EH40 WEL- Workplace Exposure limit
Ethanol	64-17-5	TWA LTEL – 8h	1000ppm 1920 mg/m ³	UK.EH40 WEL- Workplace Exposure limit

DNEL / PNEC

Crystal violet

Component	Route of exposure	Acute local effects	Acute systemic effects	Chronic local effects	Chronic systemic effects
Crystal Violet CAS NO: 548-62-9	ORAL	N/A			
	INHALATION	N/A	N/A	N/A	1.48 mg/m ³
	DERMAL	N/A	N/A	N/A	0.42 mg/kg bw/day
Methanol CAS NO: 67-56-1	ORAL	N/A	8mg/kg bw/day	N/A	8mg/kg bw/day
	INHALATION	N/A			
	DERMAL	N/A	8mg/kg bw/day	N/A	8mg/kg bw/day
Ethanol CAS NO: 64-17-5	ORAL	N/A			
	INHALATION	N/A	N/A	N/A	950 mg/m ³
	DERMAL	N/A	N/A	N/A	343mg/kg bw/day

8.2 Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

Personal protective equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

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 should be removed immediately following full contact with the substance.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Wash and dry hands.

Body Protection

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Inhalation of oil mist or vapours may cause respiratory irritation. For nuisance exposures use type OV/AG (US) or type ABEK

(EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye protection:

Goggles recommended during refilling: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

- a) Physical state: Liquid.
- b) Colour: Deep violet
- c) Odour: Mild alcoholic
- d) Melting/freezing point: No data available
- e) Initial boiling point /boiling range: No data available
- f) Flammability: No data available
- g) Upper/lower explosion limits: Not applicable
- h) Flash point: Apprx. 35°C (untested)
- i) Auto-ignition temperature: Not applicable
- j) Decomposition temperature: No data available
- k) pH: Apprx. 5.2
- l) Kinematic viscosity: Not applicable
- m) Solubility at 20°C: Water Miscible
- n) Partition coefficient n-octanol/water
- o) Vapour pressure: No data available
- p) Density and/or relative density: No data available
- q) Relative vapour density: Not applicable
- r) Particle characteristics: Not applicable.

9.2 Other safety information

Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid

Heat

10.5 Incompatible materials

Strong oxidising agents. Strong acids.

10.6 Hazardous decomposition products

In combustion emits toxic fumes.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Hazardous ingredients:

Toxicokinetics - Mixture (a) Acute toxicity Based on available data; the classification criteria are not met.

Crystal Violet CAS-No 548-62-9

Oral, rat: LD50=420 mg/kg

Methanol CAS-No 67-56-1

Oral, human: LDLo=300mg/kg

Inh, monkey: LCLo=1000ppm

Derm, monkey: LDLo= 393mg/kg

Toxicity values: No data available.

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: No symptoms.

Delayed / immediate effects:

No data available.

Other information: Not applicable.

SECTION 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

Biodegradable.

12.3 Bioaccumulative potential

No bioaccumulation potential.

12.4 Mobility in soil

Readily absorbed into soil.

12.5 Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

12.6 Other adverse effects

Negligible ecotoxicity.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal operations: Offer surplus and non-recyclable solutions to a licensed disposal company.

Recovery operations: Not applicable.

Disposal of packaging: Dispose of as unused product.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: Transport information

14.1 UN-No.: 1170

14.2 Proper Shipping Name: Ethanol solution

14.3 Class(es): 3 transport hazard class

14.4 Packing group: 3.

14.5 Environmental hazards: Marine pollutant: No

SECTION 15: Regulatory information

15.1 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.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16: Other information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/210.

Phrases used in s.2 and 3:

H225: Highly flammable liquid and vapour.

Additional information from section 3.

H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H331 Toxic if inhaled.
H351 Suspected of causing cancer.
H370 Causes damage to organs.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H318 Causes serious eye damage.
H312 Harmful in contact with skin.

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. Solmedia Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.