SAFETY DATA SHEET  
Crystal Violet (Ammonium Oxalate)  

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

1.1. Product identifier

Product name: Crystal Violet (Ammonium Oxalate)
Product number: PL.7073, PL.7074, PL.7075

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

Identified uses: Laboratory reagent.

Uses advised against: No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier: Pro-Lab Diagnostics
3 Bassendale Road
Wirral
Merseyside
CH62 3QL
Tel: 0151 353 1613
Fax: 0151 353 1614
mowen@pro-lab.com

1.4. Emergency telephone number

Emergency telephone: +44 (0)151 353 1613 Monday to Friday 9.00 to 17.00
+44 (0)7714 429 646 outside the above hours

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards: Flam. Liq. 3 - H226

Health hazards: Eye Irrit. 2 - H319 Carc. 2 - H351

Environmental hazards: Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC): Xi; R36. Carc. Cat. 3 R40. R52/53, R10

2.2. Label elements

Pictogram

Signal word: Warning

Hazard statements: H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H412 Harmful to aquatic life with long lasting effects.
Crystal Violet (Ammonium Oxalate)

Precautionary statements

P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 Avoid release to the environment.
P280 Wear protective clothing, gloves, eye and face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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 in accordance with national regulations.

Contains
C.I. basic violet 3

Supplementary precautionary statements

P202 Do not handle until all safety precautions have been read and understood.
P223 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash contaminated skin thoroughly after handling.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ethanol</td>
<td>200-578-6</td>
<td>64-17-5</td>
<td></td>
<td></td>
<td>H225 F; R11</td>
<td>Xn; R22. Xi; R41, R38. Carc. Cat. 3 R40. N; R50/53</td>
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<tr>
<td>C.I. basic violet 3</td>
<td>208-953-6</td>
<td>548-62-9</td>
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2/4
Crystal Violet (Ammonium Oxalate)

<table>
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<tr>
<th>Chemicals</th>
<th>CAS number: 67-56-1</th>
<th>EC number: 200-659-6</th>
<th>REACH registration number: 01-2119433307-44-XXXX</th>
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</thead>
<tbody>
<tr>
<td>methanol</td>
<td>0.5 - &lt;1%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Classification**
- Flam. Liq. 2 - H225
- Acute Tox. 3 - H301
- Acute Tox. 3 - H311
- Acute Tox. 3 - H331
- STOT SE 1 - H370

**Classification (67/548/EEC or 1999/45/EC)**
- F; R11. T; R23/24/25, R39/23/24/25

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### General information
Keep affected person away from heat, sparks and flames.

#### Inhalation
Immediate first aid is imperative. Loosen tight clothing such as collar, tie or belt. Maintain an open airway. Move affected person to fresh air at once. Place unconscious person on their side in the recovery position and ensure breathing can take place. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

#### Ingestion
Rinse mouth thoroughly with water. Do not induce vomiting unless under the direction of medical personnel. If in doubt, get medical attention promptly.

#### Skin contact
Rinse cautiously with water for several minutes. Remove contaminated clothing. Wash contaminated clothing before reuse.

#### Eye contact
Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water. Get medical attention if symptoms are severe or persist after washing.

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

#### Inhalation
Symptoms following overexposure may include the following: Coughing, chest tightness, feeling of chest pressure. Drowsiness, dizziness, disorientation, vertigo. May cause discomfort.

#### Ingestion
Coughing, chest tightness, feeling of chest pressure. Gastrointestinal symptoms, including upset stomach.

#### Skin contact
Prolonged contact may cause redness, irritation and dry skin.

#### Eye contact
Causes serious eye irritation. Profuse watering of the eyes. Prolonged contact may cause redness and/or tearing.

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

#### Notes for the doctor
The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

#### Suitable extinguishing media
Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

#### Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

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

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Crystal Violet (Ammonium Oxalate)

Specific hazards
Flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember.

5.3. Advice for firefighters
Protective actions during firefighting
Control run-off water by containing and keeping it out of sewers and watercourses. Fight fire from safe distance or protected location. Use water spray to reduce vapours. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak.

Special protective equipment for firefighters
Use air-supplied respirator, gloves and protective goggles. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions
Follow precautions for safe handling described in this safety data sheet. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Keep unnecessary and unprotected personnel away from the spillage. Treat the spilled material according to the instructions in the clean-up section.

6.2. Environmental precautions
Environmental precautions
Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non-combustible material. The product contains substances which are water-soluble and may spread in water systems. The product contains volatile substances which may spread in the atmosphere.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up
Take care as floors and other surfaces may become slippery. Contain spillage with sand, earth or other suitable non-combustible material. Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

6.4. Reference to other sections
Reference to other sections
For personal protection, see Section 8. For waste disposal, see Section 13. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Usage precautions
Avoid breathing vapours. Avoid contact with eyes and prolonged skin contact. Avoid the formation of mists. Ground/bond container and receiving equipment.

Advice on general occupational hygiene
Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented. Take off contaminated clothing and wash it before reuse. Wash promptly with soap and water if skin becomes contaminated.

7.2. Conditions for safe storage, including any incompatibilities
Storage precautions
Keep at temperature not exceeding 20°C.

Storage class
Flammable liquid storage.

7.3. Specific end use(s)
Specific end use(s)
The identified uses for this product are detailed in Section 1.2.
Crystal Violet (Ammonium Oxalate)

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

**Occupational exposure limits**

**ethanol**

Long-term exposure limit (8-hour TWA): WEL 1000 ppm  1920 mg/m³

**methanol**

Long-term exposure limit (8-hour TWA): WEL 200 ppm  266 mg/m³

Short-term exposure limit (15-minute):  WEL 250 ppm  333 mg/m³

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

8.2. Exposure controls

**Appropriate engineering controls**

Avoid inhalation of vapours and spray/mists. Good general ventilation should be adequate to control worker exposure to airborne contaminants. In case of insufficient ventilation, wear suitable respiratory equipment.

**Eye/face protection**

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

**Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Frequent changes are recommended. The breakthrough time for any glove material may be different for different glove manufacturers.

**Other skin and body protection**

Wear anti-static protective clothing if there is a risk of ignition from static electricity.

**Hygiene measures**

Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented.

**Respiratory protection**

If ventilation is inadequate, suitable respiratory protection must be worn. Seek advice from supervisor on the company’s respiratory protection standards. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

**Appearance**

Liquid.

**Colour**

Dark. Violet.

**Odour**

Almost odourless. Alcoholic.

**pH**

Not relevant.

**Melting point**

Not relevant.

**Initial boiling point and range**

Not determined.

**Flash point**

~ 50°C

**Evaporation rate**

Not determined.

**Flammability (solid, gas)**

Not determined.
Crystal Violet (Ammonium Oxalate)

Upper/lower flammability or explosive limits
Not determined.

Vapour pressure
Not determined.

Vapour density
Not relevant.

Relative density
Not determined.

Solubility(ies)
Soluble in water.

Partition coefficient
Not determined.

Auto-ignition temperature
Not determined.

Decomposition Temperature
Not determined.

Viscosity
Not determined.

Explosive properties
Not considered to be explosive.

Oxidising properties
Does not meet the criteria for classification as oxidising.

9.2. Other information
None.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity
No test data specifically related to reactivity available for this product or its ingredients.

10.2. Chemical stability
Stability
Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions

10.4. Conditions to avoid
Conditions to avoid
Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials
Materials to avoid

10.6. Hazardous decomposition products
Hazardous decomposition products
Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO2). Carbon monoxide (CO). Nitrous gases (NOx). Hydrocarbons. Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity - oral
Notes (oral LD₅₀)
Based on available data the classification criteria are not met.
ATE oral (mg/kg) 18,594.43760681

Acute toxicity - dermal
Notes (dermal LD₅₀)
Based on available data the classification criteria are not met.
ATE dermal (mg/kg) 33,366.70003337
Crystal Violet (Ammonium Oxalate)

Acute toxicity - inhalation
Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.
ATE inhalation (gases ppm) 77,855.63341119
ATE inhalation (vapours mg/l) 333.66700033

Skin corrosion/irritation
Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation
Serious eye damage/irritation Eye Irrit. 2 - H319 Causes serious eye irritation.

Respiratory sensitisation
Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation
Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity
Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity
Carcinogenicity Carc. 2 - H351 Suspected of causing cancer.

Reproductive toxicity
Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure
STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure
STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard
Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

Toxicological information on ingredients.

ethanol

Acute toxicity - oral
Acute toxicity oral (LD₅₀ mg/kg) 10,470.0

Species Rat

Notes (oral LD₅₀) REACH dossier information. Based on available data the classification criteria are not met.

ATE oral (mg/kg) 10,470.0

Acute toxicity - inhalation
Acute toxicity inhalation (LC₅₀ vapours mg/l) 124.7

Species Rat

Notes (inhalation LC₅₀) REACH dossier information. Based on available data the classification criteria are not met.
**Crystal Violet (Ammonium Oxalate)**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ATE inhalation (vapours mg/l)</strong></td>
<td>124.7</td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Animal data</strong></td>
<td></td>
</tr>
<tr>
<td>Dose: 0.2 ml, 24 hours, Rabbit Primary dermal irritation index: 0 / 8 REACH dossier information. Not irritating.</td>
<td></td>
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<tr>
<td><strong>Skin sensitisation</strong></td>
<td></td>
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<tr>
<td><strong>Skin sensitisation</strong></td>
<td></td>
</tr>
<tr>
<td>Guinea pig maximization test (GPMT) - Mouse: Not sensitising. REACH dossier information. Read across data. Based on available data the classification criteria are not met.</td>
<td></td>
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<tr>
<td><strong>Germ cell mutagenicity</strong></td>
<td></td>
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<tr>
<td><strong>Genotoxicity - in vitro</strong></td>
<td></td>
</tr>
<tr>
<td>Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.</td>
<td></td>
</tr>
<tr>
<td><strong>Genotoxicity - in vivo</strong></td>
<td></td>
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<tr>
<td>Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.</td>
<td></td>
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<tr>
<td><strong>Carcinogenicity</strong></td>
<td></td>
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<tr>
<td><strong>IARC carcinogenicity</strong></td>
<td></td>
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<tr>
<td>IARC Group 1 Carcinogenic to humans.</td>
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<tr>
<td><strong>Reproductive toxicity</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Reproductive toxicity - fertility</strong></td>
<td></td>
</tr>
<tr>
<td>Two-generation study - NOAEL 15 %, Oral, Mouse P REACH dossier information.</td>
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<tr>
<td><strong>Reproductive toxicity - development</strong></td>
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<td>Maternal toxicity: - NOAEL: 16000 ppm, Inhalation, Rat REACH dossier information.</td>
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</tr>
<tr>
<td><strong>Specific target organ toxicity - repeated exposure</strong></td>
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<tr>
<td><strong>STOT - repeated exposure</strong></td>
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<tr>
<td>LOAEL 4 mL/Kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.</td>
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**C.I. basic violet 3**

<table>
<thead>
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<th>Property</th>
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<tbody>
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<td><strong>Acute toxicity - oral</strong></td>
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<tr>
<td><strong>Acute toxicity oral (LD₅₀ mg/kg)</strong></td>
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<td><strong>Species</strong></td>
<td>Rat</td>
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<td><strong>Notes (oral LD₅₀)</strong></td>
<td>Raw material suppliers' information.</td>
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<td><strong>ATE oral (mg/kg)</strong></td>
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<tr>
<td><strong>Skin corrosion/irritation</strong></td>
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<tr>
<td><strong>Animal data</strong></td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2 - H315 Causes skin irritation.</td>
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<tr>
<td><strong>Serious eye damage/irritation</strong></td>
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<tr>
<td><strong>Serious eye damage/irritation</strong></td>
<td></td>
</tr>
<tr>
<td>REACH dossier information. Eye Dam. 1 - H318 Causes serious eye damage.</td>
<td></td>
</tr>
<tr>
<td><strong>Germ cell mutagenicity</strong></td>
<td></td>
</tr>
</tbody>
</table>
Crystal Violet (Ammonium Oxalate)

Genotoxicity - in vitro
Bacterial reverse mutation test: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Carcinogenicity
Carcinogenicity
Carc. 2 - H351 Suspected of causing cancer.

methanol

Acute toxicity - oral
Notes (oral LD₅₀)
ATE oral (mg/kg) 300.0

Acute toxicity - dermal
Notes (dermal LD₅₀)
Converted acute toxicity point estimate (cATpE) Toxic in contact with skin.
ATE dermal (mg/kg) 300

Acute toxicity - inhalation
Notes (inhalation LC₅₀)
Converted acute toxicity point estimate (cATpE) Toxic if inhaled.
ATE inhalation (gases ppm) 700.0
ATE inhalation (vapours mg/l) 3.0

Skin corrosion/irritation
Animal data
Dose: 2.5cm x 2.5cm, 20 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). REACH dossier information. Based on available data the classification criteria are not met.

Serious eye damage/irritation
Serious eye damage/irritation
Dose: 0.05 ml, 24 hours, Rabbit REACH dossier information. Based on available data the classification criteria are not met.

Skin sensitisation
Skin sensitisation
Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure
STOT - single exposure
STOT SE 1 - H370
Target organs Eyes Central nervous system

SECTION 12: Ecological Information

12.1. Toxicity
Toxicity
Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

Ecological information on ingredients.

ethanol
Crystal Violet (Ammonium Oxalate)

**Acute toxicity - fish**
LC₅₀, 96 hours: 14200 mg/l, Pimephales promelas (Fat-head Minnow)
REACH dossier information.

**Acute toxicity - aquatic invertebrates**
LC₅₀, 48 hours: 5012 mg/l, Ceriodaphnia dubia
REACH dossier information.

**Acute toxicity - aquatic plants**
EC₅₀, 72 hours: 11.5 mg/l, Chlorella vulgaris
REACH dossier information.

**Chronic toxicity - aquatic invertebrates**
NOEC, 9 days: 9.6 mg/l, Daphnia magna
REACH dossier information.

C.I. basic violet 3

**Toxicity**
Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

**Acute aquatic toxicity**

<table>
<thead>
<tr>
<th>LE(C)ₚ</th>
<th>0.1 &lt; L(E)C50 ≤ 1</th>
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</thead>
<tbody>
<tr>
<td>M factor (Acute)</td>
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</tbody>
</table>

**Acute toxicity - aquatic invertebrates**
EC₅₀, 48 hours: 0.24 - 0.5 mg/l, Daphnia magna
REACH dossier information.

**Acute toxicity - aquatic plants**
EC₅₀, 72 hours: 0.025 - 0.8 mg/l, Pseudokirchneriella subcapitata
REACH dossier information.

**Chronic aquatic toxicity**

| M factor (Chronic) | 1 |

methanol

**Acute toxicity - fish**
LC₅₀, 96 hours: 15400 mg/l, Lepomis macrochirus (Bluegill)
EC₅₀, 96 hours: 12700 mg/l, Lepomis macrochirus (Bluegill)
REACH dossier information.

**Acute toxicity - aquatic invertebrates**
EC₅₀, 96 hours: 18260 mg/l, Daphnia magna
REACH dossier information.

**Acute toxicity - aquatic plants**
EC₅₀, 96 hours: ~ 22000 mg/l, Pseudokirchneriella subcapitata
REACH dossier information.

**Acute toxicity - microorganisms**
IC₅₀, 3 hours: >1000 mg/l, Activated sludge
REACH dossier information.

12.2. Persistence and degradability

**Persistence and degradability**
There are no data on the degradability of this product. Volatile substances are degraded in the atmosphere within a few days.

**Ecological information on ingredients.**

ethanol

**Biodegradation**
Water - Degradation (74%): 10 days
REACH dossier information.
The substance is readily biodegradable.
Crystal Violet (Ammonium Oxalate)

**Chemical oxygen demand** 1.99 g O₂/g substance REACH dossier information.

**C.I. basic violet 3**

**Biodegradation**
- Water - Degradation (3.6%): 28 days REACH dossier information.
- The substance is readily biodegradable.

**methanol**

**Phototransformation**
- Air - DT₅₀: 17.2 days REACH dossier information.

**Biodegradation**
- Water - Degradation (95%): 20 days
- Water - Degradation (91%): 15 days
- Water - Degradation (88%): 10 days
- Water - Degradation (76%): 5 days REACH dossier information.
- The substance is readily biodegradable.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential** Not determined.

**Partition coefficient** Not determined.

**Ecological information on ingredients.**

**ethanol**

**Partition coefficient** log Pow: -0.35 REACH dossier information.

**C.I. basic violet 3**

**Partition coefficient** log Pow: 1.172 REACH dossier information.

**methanol**

**Partition coefficient** log Pow: -0.77 REACH dossier information.

**12.4. Mobility in soil**

**Mobility** The product contains organic solvents which will evaporate easily from all surfaces. The product contains substances which are water-soluble and may spread in water systems.

**Ecological information on ingredients.**

**ethanol**

**Surface tension** 24.5 mN/m @ 20°C/68°F REACH dossier information.

**C.I. basic violet 3**

**Surface tension** 44.2 mN/m REACH dossier information.

**methanol**

**Mobility** Mobile.
Crystal Violet (Ammonium Oxalate)

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects

Not relevant.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

Reuse or recycle products wherever possible. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

Disposal methods

Absorb in vermiculite, dry sand or earth and place into containers. Place waste in labelled, sealed containers. Do not empty into drains. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Collect and place in suitable waste disposal containers and seal securely. Dispose of contents/container in accordance with national regulations.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1987
UN No. (IMDG) 1987
UN No. (ICAO) 1987
UN No. (ADN) 1987

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ALCOHOLS, N.O.S. (ethanol)
Proper shipping name (IMDG) ALCOHOLS, N.O.S. (ethanol)
Proper shipping name (ICAO) ALCOHOLS, N.O.S. (ethanol)
Proper shipping name (ADN) ALCOHOLS, N.O.S. (ethanol)

14.3. Transport hazard class(es)

ADR/RID class 3
ADR/RID classification code F1
ADR/RID label 3
IMDG class 3
ICAO class/division 3
ADN class 3

Transport labels

flammable
Crystal Violet (Ammonium Oxalate)

14.4. Packing group

ADR/RID packing group III
IMDG packing group III
ADN packing group III
ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

EmS F-E, S-D
ADR transport category 3
Emergency Action Code +3Y
Hazard Identification Number (ADR/RID) 30
Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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


15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information


Revision comments Classification modification.

Revision date 18/06/2015
Crystal Violet (Ammonium Oxalate)

Revision 5
Supersedes date 09/04/2015
SDS number 781
Risk phrases in full
R10 Flammable.
R11 Highly flammable.
R22 Harmful if swallowed.
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R36 Irritating to eyes.
R38 Irritating to skin.
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R40 Limited evidence of a carcinogenic effect.
R41 Risk of serious damage to eyes.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard statements in full
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H351 Suspected of causing cancer.
H370 Causes damage to organs (Eyes, Central nervous system).
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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