

**Crystal Violet Solution, Hugger**

Date 29.1.2013

Previous date: 28.3.2011

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier****1.1.1 Commercial Product Name**

Crystal Violet Solution, Hugger

**1.1.2 Product code**

FF064 1 L

**1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Recommended use**

Laboratory chemical.

**1.3 Details of the supplier of the safety data sheet****1.3.1 Supplier**

Oy FF-Chemicals Ab

**Street address**

Teollisuustie 4

**Postcode and post office**

FI-90830 Haukipudas

Finland

**Telephone**

+358 8 5563 193

**Telefax**

+358 8 5563 194

**Email**

ffc@ff-chemicals.fi

**1.4 Emergency telephone number****1.4.1 Telephone number, name and address**

Please contact the Emergency Centre in your own country.

**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

Classification according to 1999/45/EC: Flammable. May cause cancer. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**1272/2008 (CLP)**

Flam. Liq. 3, H226

Carc. 1B, H350

Eye Irrit. 2, H319

Aquatic Chronic 3, H412

**67/548/EEC - 1999/45/EC**

T; R10-45-52/53

**2.2 Label elements****1272/2008 (CLP)**

GHS07 - GHS08 - GHS02

Signal word

**Danger****Hazard Statements**

H226

Flammable liquid and vapour.

H350

May cause cancer &lt;state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard&gt;.

H319

Causes serious eye irritation.

H412

Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

P210

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P273

Avoid release to the environment.

**2.3 Other hazards**

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**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Hazardous components**

<b>CAS/EC and Reg. number</b>	<b>Chemical name of the substance</b>	<b>Concentration</b>	<b>Classification</b>
64-17-5	Ethanol	20 %	F; R11; Flam. Liq. 2, H225
548-62-9	C.I.BasicViolet	2 %	Carc.Cat.2; R45;Xn; R22;Xi; R41;N; R50-53; Carc. 1B, H350; Acute Tox. 4, H302 ; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410
14258-49-2	Ammonium oxalate	1 %	Xn; R20/22; Acute Tox. 4, H302; Acute Tox 4, H312

**3.3 Other information**

The texts of R and H phrases can be read in chapter 16.

**4. FIRST AID MEASURES****4.1 Description of first aid measures**

Move the exposed person out from the contaminated area. Take off contaminated clothing immediately.

**4.1.2 Inhalation**

Move the exposed to fresh air.

**4.1.3 Skin contact**

Wash off with soap and plenty of water. Take off contaminated clothing.

**4.1.4 Eye contact**

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Contact an ophthalmologist if irritation persists.

**4.1.5 Ingestion**

Rinse mouth and throat with water.

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

No information available.

**4.3 Indication of immediate medical attention and special treatment needed****5. FIREFIGHTING MEASURES**

Flammable liquid and vapour.

**5.1 Extinguishing media****5.1.1 Suitable extinguishing media**

Water fog, carbon dioxide, powder or alcohol foam.

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

May liberate hazardous fumes or vapour in case of fire.

**5.3 Advice for firefighters**

Fire fighters have to wear a pressurized respirator and chemical protection suit.

**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Evacuate the area. Wear personal protective equipment. Prevent release of vapours and aerosols in air. Adequate ventilation needed. Avoid breathing vapours and mist.

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**6.2 Environmental precautions**

Prevent leakage into sewers, soil, and waters.

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

Absorb in appropriate material. Pick up in containers for waste treatment. Clean contaminated surfaces. Ventilate the area.

**6.4 Reference to other sections**

8, 13.

**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Prevent emissions of vapour and mists in air. Avoid inhalation of vapours and mist. Avoid contact with skin, eyes or clothing. Use personal protective equipment and local exhaust. Wash hands after handling. Do not use sparking tools. Take care of sufficient ventilation. Avoid prolonged exposure.

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

Keep container tightly closed.

**7.3 Specific end use(s)****8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****8.1.1 Threshold limits**

64-17-5	Ethanol	1000 ppm (8 h)	1300 ppm (15 min)
		1900 mg/m <sup>3</sup> (8 h)	2500 mg/m <sup>3</sup> (15 min)

**8.1.2 Other information on limit values**

The values above are Finnish OEL values.

**8.1.3 Limit values in other countries**

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**8.1.4 DNELs**

No information available.

**8.1.5 PNECs**

No information available.

**8.2 Exposure controls****8.2.1 Appropriate engineering controls**

Obey good laboratory practices, good hygiene and safety guidelines. Adequate ventilation needed. Wash hands after handling. Immediately take off contaminated clothing and wash before reuse.

**8.2.2 Individual protection measures****8.2.2.1 Respiratory protection**

Respirator if vapours or aerosols are escaped in air.

**8.2.2.2 Hand protection**

Protective gloves complying with EN 374.

**8.2.2.3 Eye/face protection**

Protective goggles.

**8.2.2.4 Skin protection**

Working clothes.

**8.2.3 Environmental exposure controls**

Prevent leakage into sewers, soil, and waters.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Important Health Safety and Environmental Information**

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<b>9.1.1</b>	<b>Appearance</b>	
	Liquid.	
<b>9.1.2</b>	<b>Odour</b>	No information available.
<b>9.1.3</b>	<b>Odour threshold</b>	No information available.
<b>9.1.4</b>	<b>pH</b>	No information available.
<b>9.1.5</b>	<b>Melting point/freezing point</b>	No information available.
<b>9.1.6</b>	<b>Initial boiling point and boiling range</b>	No information available.
<b>9.1.7</b>	<b>Flash point</b>	ca 36 °C
<b>9.1.8</b>	<b>Evaporation rate</b>	No information available.
<b>9.1.9</b>	<b>Flammability (solid, gas)</b>	Flammable liquid and vapour.
<b>9.1.10</b>	<b>Explosive properties</b>	
<b>9.1.10.1</b>	<b>Lower explosion limit</b>	No information available.
<b>9.1.10.2</b>	<b>Upper explosion limit</b>	No information available.
<b>9.1.11</b>	<b>Vapour pressure</b>	No information available.
<b>9.1.12</b>	<b>Vapour density</b>	No information available.
<b>9.1.13</b>	<b>Relative density</b>	< 1 g/cm <sup>3</sup>
<b>9.1.14</b>	<b>Solubility(ies)</b>	
<b>9.1.14.1</b>	<b>Water solubility</b>	Soluble.
<b>9.1.15</b>	<b>Partition coefficient: n-octanol/water</b>	log P <sub>OW</sub> : - 0.3 (Ethanol)
<b>9.1.16</b>	<b>Auto-ignition temperature</b>	No information available.
<b>9.1.17</b>	<b>Decomposition temperature</b>	No information available.
<b>9.1.18</b>	<b>Viscosity</b>	No information available.
<b>9.1.19</b>	<b>Explosive properties</b>	No information available.
<b>9.1.20</b>	<b>Oxidising properties</b>	No information available.
<b>9.2</b>	<b>Other information</b>	

**10. STABILITY AND REACTIVITY**

<b>10.1</b>	<b>Reactivity</b>	Flammable liquid and vapour.
<b>10.2</b>	<b>Chemical stability</b>	Stable in normal conditions.
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	No information available.
<b>10.4</b>	<b>Conditions to avoid</b>	Strong heating.
<b>10.5</b>	<b>Incompatible materials</b>	No information available.
<b>10.6</b>	<b>Hazardous decomposition products</b>	No information available.

**11. TOXICOLOGICAL INFORMATION**

<b>11.1</b>	<b>Information on toxicological effects</b>	
<b>11.1.1</b>	<b>Acute toxicity</b>	No hazard classification.
<b>11.1.2</b>	<b>Irritation and corrosion</b>	Causes serious eye irritation.

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- 11.1.3 Sensitisation**  
No hazard classification.
- 11.1.4 Subacute, subchronic and prolonged toxicity**  
May cause cancer.
- 11.1.5 STOT-single exposure**  
No hazard classification.
- 11.1.6 STOT-repeated exposure**  
No hazard classification.
- 11.1.7 Aspiration hazard**  
Not classified.

**12. ECOLOGICAL INFORMATION**

- 12.1 Toxicity**
- 12.1.1 Aquatic toxicity**  
Harmful to aquatic life with long lasting effects.
- 12.2 Persistence and degradability**
- 12.2.1 Biodegradation**  
Ethanol: BOD<sub>5</sub>/COD > 0.5; rapidly degradable.
- 12.3 Bioaccumulative potential**  
No information available.
- 12.4 Mobility in soil**  
Mobile, water solution.
- 12.5 Results of PBT and vPvB assessment**  
No information available.
- 12.6 Other adverse effects**

**13. DISPOSAL CONSIDERATIONS**

- 13.1 Waste treatment methods**  
Dispose of contents/container in accordance of local and national regulations.
- 13.2 Waste from residues / unused products**  
Dispose of as hazardous waste in compliance with local and national regulations.

**14. TRANSPORT INFORMATION**

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	<b>Land transport ADR/RID</b>	<b>Sea transport IMDG/IMO</b>	<b>Air transport ICAO/IATA</b>
<b>14.1 UN number</b>	1993	1993	
<b>14.2 UN proper shipping name</b>	FLAMMABLE LIQUID, N.O.S. (ethanol solution)	FLAMMABLE LIQUID, N.O.S. (ethanol solution)	
<b>14.3 Transport hazard class(es)</b>	3	3	
<b>14.4 Packing group</b>	III	III	
<b>14.5 Environmental hazards</b>			
<b>Other information</b>			

**14.6 Special precautions for users****14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code****15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**REACH regulation, CLP regulation (EC).  
Finnish Occupational Exposure Limit values.**15.2 Chemical safety assessment**

Not available.

**16. OTHER INFORMATION****16.1 Additions, Deletions, Revisions**

Updated according to Regulation 453/2010/EC. Classification according to CLP Regulation added.

**16.3 Key literature references and sources for data**

CLP Regulation (1272/2008/EY) ECHA C&amp;L Inventory.

**16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements**

R10	Flammable.
R20/22	Harmful by inhalation and if swallowed.
R22	Harmful if swallowed.
R41	Risk of serious damage to eyes.
R45	May cause cancer.
R50	Very toxic to aquatic organisms.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H350	May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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**16.6 Training advice**

Appropriate handling of hazardous substances.

**16.7 Recommended restrictions**

Access only for qualified personnel.

**16.8 Additional information available from:**

Oy FF-Chemicals Ab, Finland, Tel: 0358 (0)8 5563; ffc@ff-chemicals.fi

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.