

Crystal violet 2.5L

1 of 8

Complying with 1907/2006/EEC Regulation of 18 December 2006 ("REACH Regulation") and REGULATION (EC) No 1272/2008 (CLP)

Section 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: Crystal violet 2.5L Trade Name: Crystal violet 2.5L Catalog number: A-3125CV

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

To detect finger prints.

1.3 Details of the supplier of the safety data sheet

Supplier: Distributor:

MISTRAL SECURITY INC. ARROWHEAD FORENSICS

7910 Woodmont Ave, Ste 820 11030 Strang Line Road Lenexa, KS 66215

TEL: (301) 913-9366 TEL: (913) 894-8388 FAX: (301) 913-9369 FAX: (913) 894-8399

E-mail address of person responsible for this SDS: N/A

1.4 Emergency telephone number

Emergency telephone number (with hours of operation): N/A

Section 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC (DSD) or 1999/45/EC

Product name	EU Classification		
Crystal violet 2.5L	F; R11 Xi; R36 Xn; R65 R67		

2.2 Label elements

Labelling in accordance with 1999/45 (DPD) Hazard symbol(s):

Xn- Harmful F-Highly flammable





Risk phrase(s):

R11: Highly flammable R36: Irritating to the eyes

R65: Harmful: May cause lung damage if swallowed R67: Vapors may cause drowsiness and dizziness



Crystal violet 2.5L

2 of 8

Safety phrase(s):

S7: Keep container tightly closed

S16: Keep away from sources of ignition - No smoking

S23: Do not breathe gas/fumes/vapor/spray S24/25: Avoid contact with skin and eyes

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

2.3 Other hazard

None

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation:

Product/ Ingredient name	Identifiers	%	EU Classification
IPA (Isopropyl alcohol)	CAS: 67-63-0 EINECS: 200-661-7	54.43	F; R11 Xi; R36 R67
Petroleum ether 40-60°C	CAS: 64742-49-0 EINECS: 265-151-9	45.36	Xn; R65
Crystal violet	CAS: 548-62-9 EINECS: 208-953-6	0.22	Xn; R22, R40 Xi; R41 Carc. Cat. 3; R40 N; R50/53

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8. See section 16 for the full text of the R-phrases declared above.

Section 4. FIRST AID MEASURES

4.1 Description of first aid measures

Eyes contact: In case of contact with eyes rinse thoroughly with plenty of water and seek medical

advice.

Skin contact: In case of contact with skin wash off immediately with soap and plenty of water, and

seek medical advice.

Inhalation: Remove from exposure, lie down. If breathing is difficult, give oxygen. If not breathing,

give artificial respiration.

Ingestion: Wash mouth thoroughly with plenty of water and give water or milk to drink. Get

medical attention immediately

4.2 Most important symptoms and effects, both acute and delayed



Crystal violet 2.5L

3 of 8

N/A

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: No specific antidote, medical staff contacts Poisons Information Center. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

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

Not suitable: N/A

5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of fumes of hydrogen chloride, nitrogen oxides and other irritating and toxic fumes.

5.3 Advice for firefighters

Special protective equipment for fire fighters: Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition.

6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

Large spill: As for small spill

Personal Protection in Case of Large Spill: Safety glasses. Full suit. Suitable respirator. Boots. Gloves. A self- contained breathing apparatus should be used to avoid inhalation of the product.

6.4 Reference to other sections

See Section 13 for additional waste treatment information.

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of



Crystal violet 2.5L

4 of 8

ignition – No smoking. Protect against electrostatic charges. Wash thoroughly after handling. Do not permit eating/drinking/smoking near the material.

Hygiene Measures: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep containers tightly closed. Store in cool, dry and well ventilated place. Keep away from oxidizing agents and strong acids. Keep away from heat, sparks, open flame or any other ignition source.

7.3 Specific end use(s): N/A

Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values:

Ingredient name	Occupational exposure limits		
IPA (Isopropyl alcohol)	ACGIH-TLV 200 ppm (TWA), 400 ppm (STEL)		

8.2 Exposure controls

Enginnering Measures

Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Person Protective measures

<u>Respiratory protection:</u> Suitable respirator. Be sure to use an approved/certified or equivalent. Wear appropriate respirator when ventilation is inadequate.

<u>Eye/face protection:</u> Wear protective safety glasses, goggles.

<u>Skin protection:</u> Wear appropriate long-sleeved clothing to minimize skin contact.

<u>Hand protection:</u> Wear protective disposable gloves to prevent skin exposure.

Environmental exposure controls: N/A

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: dark color liquid

Odour: N/A

Odour threshold: N/A

pH: N/A



Crystal violet 2.5L

5 of 8

Melting point/Freezing point: N/A

Initial boiling point/boiling range: 40-60°C (Petroleum ether)

Flash point: -40°C (Petroleum ether)

Evaporation rate: N/A Flammability: N/A

Upper/lower flammability or explosive limits: Lower 0.8 Vol%, Upper 7.4 Vol% (Petroleum ether)

Vapor pressure: N/A Vapor density: N/A Relative Density: N/A

Solubility(ies): Solube in water

Partition coefficient Octanol/Water: N/A

Auto-ignition temperature: 250°C (Petroleum ether)

Decomposition temperature: N/A

Viscosity: N/A

Explosive properties: N/A Oxidizing properties: N/A

9.2 Other information

N/A

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients

10.2 Chemical stability

The product is stable under normal handling and storage conditions described in Section 7.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

Keep away from heat, open flame and sparks.

10.5 Incompatible materials

Strong oxidizing agents and strong acids.

10.6 Hazardous Decomposition products

Not available

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Product/ingredient name	Test/Type	Species	Dose	Exposure
Petroleum ether 40-60°C	LD50, oral	Rat	>2000 mg/kg	-



Crystal violet 2.5L

6 of 8

	LD50, Dermal	Rabbit	>2000 mg/kg	-
	LC50/4h, Inhalation	Rat	>5 mg/l	-
IPA (Isopropyl alcohol)	LD50, oral	Rat	5045 mg/kg	-
	LD50, Dermal	Rabbit	12800 mg/kg	-
	LC50/4h, Inhalation	Rat	30 mg/l	-

Irritation: N/A

Corrosivity: N/A

Sensitization: N/A

Repeated dose toxicity: N/A

Carcinogenicity: N/A

Mutagenicity: N/A

Toxicity for reproduction: N/A

Potential health effects

Inhalation: N/A Ingestion: N/A Skin: N/A

Eyes: Causes eye irritation.

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

N/A

12.2 Persistence and Degradability

N/A

12.3 Bioaccumulative potential

N/A

12.4 Mobility in soil

N/A

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

N/A



Crystal violet 2.5L

7 of 8

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Packing

Empty containers should be taken for local recycling, recovery or waste disposal.

Section 14: TRANSPORT INFORMATION

14.1 Un number:

<u>ADR/RID:</u> 1993 <u>IMDG:</u> 1993 <u>IATA:</u> 1993

14.2 Proper shipping name:

ADR/RID: FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol, Petroleum ether)

IMDG: FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol, Petroleum ether)

<u>IATA:</u> Flammable liquid, n.o.s. (Isopropyl alcohol, Petroleum ether)

14.3 Transport hazard class(es)

ADR/RID: 3 IMDG: 3 IATA: 3

14.4 Packing group

ADR/RID: II IMDG: II IATA: II

14.5 Environmental hazard

ADR/RID: - IMDG: - IATA: -

14.6 Special precautions for user

Not available

Additional information

ADR/RID: EAC: 3YE IMDG: EmS: F-E, S-E IATA: -

14.7 Transport to bulk according to Annex II of MARPOL 79/78 and the IBC Code

Not available

Section 15: REGULATORY INFORMATION

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

EU Directives 67/548/EEC and 1999/45/EC (including amendments)

EU Regulation(EC) No.1907/2006 (REACH)

15.2 Chemical safety assessment

N/A



Crystal violet 2.5L

8 of 8

Section 16: OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and 3:

R11: Highly flammable R22: Harmful if swallowed R36: Irritating to the eyes

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

R65: Harmful: May cause lung damage if swallowed R67: Vapors may cause drowsiness and dizziness

Training advice: Before using/handling the product one must read carefully present MSDS.

Recommended restriction: N/A

Key Legend Information:

ACGIH- American Conference of Governmental Industrial Hygienists

OSHA- Occupational Safety and Health Administration

NTP- National Toxicology program

IARC- International Agency for Research on Cancer

ND- Not Determined N/A- Not available

R-phrases- Risk phrases

S-phrases- Safety phrases

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