

## MATERIAL SAFETY DATA SHEET (MSDS)

### CRYSTAL VIOLET STAINING SOLUTION (GRAM'S)

#### 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Trade name : CRYSTAL VIOLET STAINING SOLUTION (GRAM'S)

Product code : SI0302900500  
 Cas No:N/A

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

Use : Industrial. For professional use only.

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

Company identification : SUVCHEM  
 Chaitanya Tower, 2nd Floor, Office # 206,  
 Siddharth Nagar, S.V. Road,  
 Goregaon (West), Mumbai - 400062,  
 Maharashtra, India.  
 Contact: +91 22 28725393 / 94 / 95  
 Email ID: info@suvchem.com/care@suvchem.com

##### 1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

#### 2. Hazards identification -DSD

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

##### Classification EC 67/548 or EC 1999/45

Classification : C; R35

##### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Skin corrosion - Category 1A - Danger (CLP : Skin Corr. 1A) H314

##### 2.2. Label elements

##### Labelling EC 67/548 or EC 1999/45

Symbol(s)



Symbol(s) : C : Corrosive

R Phrase(s) : R35 : Causes severe burns.

S Phrase(s) : S24 : Avoid contact with skin.

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

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 CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

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#### 2. Hazards identification -DSD (continued)

**Contains** : S28 : After contact with skin, wash immediately with  
 S35 : This material and its container must be disposed of in a safe way.  
 S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.  
 S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).  
 S59 : Refer to manufacturer/supplier for information on recovery/recycling.  
 : 4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride - AMMONIUM OXALATE PURIFIED 99% - Ethanol - Water

#### Labelling Regulation EC 1272/2008 (CLP)

##### Hazard pictograms



##### Signal words

: Danger

##### Hazard statements

: H314 : Causes severe skin burns and eye damage.

##### Precautionary statements

##### • Prevention

: P280: Wear protective gloves, protective clothing, eye protection, face protection.  
 P260: Do not breathe dust, fume, gas, mist, vapours, spray.  
 P264: Wash thoroughly after handling.

##### • Response

: P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.  
 P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.  
 P363: Wash contaminated clothing before reuse.

##### • Storage

: P405: Store locked up.

##### • Disposal considerations

: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

##### Contains

: 4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride - AMMONIUM OXALATE PURIFIED 99% - Ethanol - Water

#### 2.3. Other hazards

##### Other hazards

: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

#### 3. Composition/information on ingredients

##### Substance / Preparation

: Preparation.

##### Hazardous component(s)

: This product is hazardous.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]	> 1 < 5 %	548-62-9	208-953-6	612-204-00-2	----	R10 R40 R52-53

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**3. Composition/information on ingredients (continued)**

dimethylammonium chloride						Flam. Liq. 3 _ H226 Aquatic Chronic 3 _ H412
AMMONIUM OXALATE PURIFIED : 99%	> 0.01 < 1 %	6009-70-7	----	----	----	Xn; R21 Acute Tox. 4 (skin) _ H312 Acute Tox. 4 (oral) _ H302
Ethanol :	> 15 < 25 %	64-17-5	200-578-6	603-002-00-5	----	R10 C; R35 Skin Corr. 1A _ H314 Flam. Liq. 3 _ H226
Water :	> 75 < 99 %	7732-18-5	231-791-2	----	----	Not classified (DSD/DPD) Not classified (GHS)

**4. First aid measures**
**4.1. Description of first aid measures**

Inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.
Skin contact	: Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Immediately call a POISON CENTER or doctor.
Eye contact	: Immediately call a POISON CENTER or doctor. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
Ingestion	: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. Rinse mouth.

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

Symptoms relating to use	: Causes severe skin burns and eye damage.
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**4.3. Indication of any immediate medical attention and special treatment needed**

General information	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
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**5. Fire-fighting measures**
**5.1. Extinguishing media**

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
Surrounding fires	: Use water spray or fog for cooling exposed containers.

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

Hazardous combustion products	: Under fire conditions, hazardous fumes will be present. Thermal decomposition generates : Corrosive vapours.
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**5.3. Advice for fire-fighters**

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**5. Fire-fighting measures (continued)**

- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

**6. Accidental release measures**
**6.1. Personal precautions, protective equipment and emergency procedures**

- For emergency responders** : Equip cleanup crew with proper protection. Ventilate area.
- Technical measures** : Use special care to avoid static electric charges.
- Special precautions** : Remove ignition sources. No naked lights. No smoking.
- For non-emergency personnel** : Evacuate unnecessary personnel.

**6.2. Environmental precautions**

- Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.  
Avoid release to the environment.

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

- Clean up methods** : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

**6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

**7. Handling and storage**
**7.1. Precautions for safe handling**

- Handling** : Handle empty containers with care because residual vapours are flammable. Take precautionary measures against static discharge. Avoid contact during pregnancy or while nursing. Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours, spray.
- Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools. Use explosion-proof electrical, ventilating, lighting, ..., equipment.
- Special precautions** : No naked lights. No smoking.

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

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**CRYSTAL VIOLET STAINING SOLUTION (GRAM'S)**
**7. Handling and storage (continued)**

<b>Storage</b>	: Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Ground/bond container and receiving equipment. Keep container tightly closed.
<b>Storage regulation</b>	: Comply with applicable regulations.
<b>Storage - away from</b>	: Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.
<b>7.3. Specific end use(s)</b>	
<b>Specific end use(s)</b>	: None.

**8. Exposure controls/personal protection**
**8.1. Exposure controls**
**Personal protection**


<b>Personal protection</b>	: Avoid all unnecessary exposure.
• <b>Respiratory protection</b>	: Wear approved mask.
• <b>Hand protection</b>	: Wear protective gloves.
• <b>Skin protection</b>	: Wear suitable protective clothing.
• <b>Eye protection</b>	: Chemical goggles or face shield.
• <b>Others</b>	: When using, do not eat, drink or smoke.

**8.2. Control parameters**

<b>Occupational Exposure Limits</b>	: No data available.
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**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

<b>Physical state at 20 °C</b>	: Liquid.
<b>Colour</b>	: Colorless
<b>Odour</b>	: Characteristic.
<b>Odour threshold</b>	: No data available.
<b>pH value</b>	: No data available.
<b>Melting point [°C]</b>	: No data available.
<b>Decomposition point [°C]</b>	: N/A
<b>Critical temperature [°C]</b>	: No data available.
<b>Auto-ignition temperature [°C]</b>	: No data available.

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**9. Physical and chemical properties (continued)**

Flammability (solid, gas)	: Flammable. Flammable liquid and vapour.
Flash point [°C]	: No data available.
Boiling point [°C]	: N/A
Initial boiling point [°C]	: No data available.
Final boiling point [°C]	: No data available.
Evaporation rate	: N/A
Vapour pressure [20°C]	: No data available.
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm <sup>3</sup> ]	: N/A
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: N/A
Solubility in water	: No data available.
Log Pow octanol / water at 20°C	: No data available.
Solubility	: 4,6
Viscosity at 40°C [mm <sup>2</sup> /s]	: No data available.

**9.2. Other information**

Explosive properties	: N/A
Explosion limits - upper [%]	: No data available.
Explosion limits - lower [%]	: No data available.
Oxidising properties	: No data available.

**10. Stability and reactivity**
**10.1. Reactivity**

Reactivity	: Not established.
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**10.2. Chemical stability**

Chemical stability	: Stable under recommended storage conditions.
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**10.3. Possibility of hazardous reactions**

Hazardous reactions	: Not established.
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**10.4. Conditions to avoid**

Conditions to avoid	: Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.
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**MATERIAL SAFETY DATA SHEET (MSDS)**
**CRYSTAL VIOLET STAINING SOLUTION (GRAM'S)**
**10. Stability and reactivity (continued)**
**10.5. Incompatible materials**

**Materials to avoid** : Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** : Fumes. Carbon monoxide. Carbon dioxide.  
 May release flammable gases.  
 Thermal decomposition generates : Corrosive vapours.

**11. Toxicological information**
**11.1. Information on toxicological effects**

**Toxicity information** : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

**Acute toxicity**

- **Inhalation** : Based on available data, the classification criteria are not met.
- **Dermal** : Based on available data, the classification criteria are not met.
- **Ingestion** : Based on available data, the classification criteria are not met.

**Corrosion** : Causes severe skin burns and eye damage.

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

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

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

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

**Toxic for reproduction** : 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.

**12. Ecological information**
**12.1. Toxicity**

**Toxicity information** : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.  
 Harmful to aquatic life with long lasting effects.

**12.2. Persistence - degradability**

**Persistence - degradability** : May cause long-term adverse effects in the environment.

**12.3. Bioaccumulative potential**



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#### 12. Ecological information (continued)

Bioaccumulative potential : Not established.

##### 12.4. Mobility in soil

Mobility in soil : Not established.

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

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

##### 12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

#### 13. Disposal considerations

##### 13.1. Waste treatment methods

**General** : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.  
 Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**Special precautions** : Handle empty containers with care because residual vapours are flammable.

#### 14. Transport information

##### 14.1. Land transport (ADR-RID)

Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
 UN N° : 1993  
 H.I. nr : 30  
 ADR - Class : 3  
 Labelling - Transport : 3 : Flammable liquid.



ADR - Classification code : F1  
 ADR - Group : III  
 ADR - Packing instructions : P001 R001 LP001  
 ADR - Limited Quantity : 5 L  
 ADR - Tunnel code : D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.



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**14. Transport information (continued)**

**14.2. Sea transport (IMDG).[English only]**

Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
 UN N° : 1993  
 IMO-IMDG - Class or division : 3 : Flammable liquid.  
 IMO-IMDG - Packing group : III  
 IMO-IMDG - Packing instructions : P001 LP01  
 IMO-IMDG - Limited quantities : 5 L  
 IMO-IMDG - Marine pollution : No  
 EMS-Nr : F-E S-E

**14.3. Air transport (ICAO-IATA).[English only]**

Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
 UN N° : 1993  
 IATA - Class or division : 3 : Flammable liquid.  
 IATA - Packing group : III  
 IATA - Passenger and Cargo Aircraft : ALLOWED  
   - Passenger and Cargo - Packing : 355  
 instruction  
   - Passenger and Cargo - Maximum : 60 L  
 Quantity/Packing  
 IATA - Cargo only : ALLOWED  
   - Cargo only - Packing instruction : 366  
   - Cargo only - Maximum Quantity/ : 220 L  
 Packing  
 IATA - Limited Quantities : 10 L  
 ERG-Nr : 3L

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

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.  
 REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.  
 REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

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#### 15. Regulatory information (continued)

##### 15.2. Chemical Safety Assessment

**Chemical Safety Assessment** : It has not been carried out.

#### 16. Other information

<b>Revision</b>	: Revision - See : *
<b>Abbreviations and acronyms</b>	: PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative
<b>Sources of key data used</b>	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
<b>List of relevant R phrases (heading 3)</b>	: R10 : Flammable. R21 : Harmful in contact with skin. R22 : Harmful if swallowed. R35 : Causes severe burns. R40 : Limited evidence of a carcinogenic effect. R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>List of full text of H-statements in section 3</b>	: H226 : Flammable liquid and vapour. H302 : Harmful if swallowed. H312 : Harmful in contact with skin. H314 : Causes severe skin burns and eye damage. H412 : Harmful to aquatic life with long lasting effects.
<b>Further information</b>	: None.

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In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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