

MATERIAL SAFETY DATA SHEET (MSDS)
CARBOL GENTIAN VIOLET STAIN (GRAM'S STAIN AN ALTERNATIVE TO GENTIAN VIOLET)
1. Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier

Trade name : CARBOL GENTIAN VIOLET STAIN (GRAM'S STAIN AN ALTERNATIVE TO GENTIAN VIOLET)

Product code : SI0302100500

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 : Carc. Cat. 2; R45
 Muta. Cat. 3; R68
 C; R34
 R52-53

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

Health hazards : Germ cell mutagenicity - Category 2 - Warning (CLP : Muta. 2) H341
 Carcinogenicity - Category 1A - Danger (CLP : Carc. 1A) H350
 Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319
 Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315

Environmental hazards : Hazardous to the aquatic environment - Chronic hazard - Category 3 (CLP : Aquatic Chronic 3) H412

2.2. Label elements
Labelling EC 67/548 or EC 1999/45

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CARBOL GENTIAN VIOLET STAIN (GRAM'S STAIN AN ALTERNATIVE TO GENTIAN VIOLET)
2. Hazards identification -DSD (continued)
Symbol(s)

Symbol(s)

 : T : Toxic
 C : Corrosive

R Phrase(s)

 : R34 : Causes burns.
 R45 : May cause cancer.
 R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R68 : Possible risks of irreversible effects.

S Phrase(s)

 : S4 : Keep away from living quarters.
 S24 : Avoid contact with skin.
 S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 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.
 S38 : In case of insufficient ventilation, wear suitable respiratory equipment.
 S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).
 S53 : Avoid exposure - obtain special instructions before use.
 S59 : Refer to manufacturer/supplier for information on recovery/recycling.
 S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

Contains

: Water - Phenol - Ethanol - C.I. Basic Violet 3 with ? 0.1% of Michler's ketone (EC no. 202-027-5)

Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms

Signal words

: Danger

Hazard statements

 : H350 : May cause cancer.
 H341 : Suspected of causing genetic defects.
 H319 : Causes serious eye irritation.
 H315 : Causes skin irritation.
 H412 : Harmful to aquatic life with long lasting effects.

Precautionary statements
• General

: P201: Obtain special instructions before use.

• Prevention

 : P280: Wear protective gloves, protective clothing, eye protection, face protection.
 P273: Avoid release to the environment.
 P264: Wash thoroughly after handling.

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MATERIAL SAFETY DATA SHEET (MSDS)

CARBOL GENTIAN VIOLET STAIN (GRAM'S STAIN AN ALTERNATIVE TO GENTIAN VIOLET)

2. Hazards identification -DSD (continued)

- **Response** : P302+P352: IF ON SKIN : Wash with plenty of soap and water.
 P308+P313: If exposed or concerned : get medical advice.
 P332+P313: If skin irritation occurs : Get medical advice.
 P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 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.
- Special labelling** : Restricted to professional users. (Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008)
- Contains** : Water - Phenol - Ethanol - C.I. Basic Violet 3 with ? 0.1% of Michler's ketone (EC no. 202-027-5)

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
C.I. Basic Violet 3 with ? 0.1% of Michler's ketone (EC no. 202-027-5)	> 0.01 < 1 %	548-62-9	208-953-6	612-205-00-8	----	Carc. Cat. 2; R45 Xn; R22 Xi; R41 N; R50-53 Eye Dam 1 _ H318 Carc. 1B _ H350 Acute Tox. 4 (oral) _ H302 Aquatic Acute 1 _ H400 Aquatic Chronic 1 _ H410
Phenol	> 1 < 5 %	108-95-2	203-632-7	604-001-00-2	----	Muta. Cat. 3; R68 T; R23/24/25 Xn; R48/20/21/22 C; R34 Acute Tox. 3 (skin) _ H311 Acute Tox. 3 (inhal) _ H331 Acute Tox. 3 (oral) _ H301 Skin Corr. 1B _ H314 Eye Dam 1 _ H318 Muta. 2 _ H341 STOT RE 2 _ H373
Ethanol	> 1 < 5 %	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)

MATERIAL SAFETY DATA SHEET (MSDS)
CARBOL GENTIAN VIOLET STAIN (GRAM'S STAIN AN ALTERNATIVE TO GENTIAN VIOLET)
4. First aid measures
4.1. Description of first aid measures

Inhalation	: Assure fresh air breathing. Allow the victim to rest. Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
Skin contact	: Immediately call a POISON CENTER or doctor. Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Get medical advice. If skin irritation occurs : Specific treatment (see on this label).
Eye contact	: Get medical advice. If eye irritation persists : 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	: Obtain emergency medical attention. Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.

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

Symptoms relating to use	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Danger of serious damage to health by prolonged exposure through inhalation. Swallowing a small quantity of this material will result in serious health hazard. May cause cancer. Suspected of causing genetic defects. Causes severe skin burns and eye damage. Causes serious eye irritation. Causes skin irritation. May cause damage to organs.
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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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MATERIAL SAFETY DATA SHEET (MSDS)
CARBOL GENTIAN VIOLET STAIN (GRAM'S STAIN AN ALTERNATIVE TO GENTIAN VIOLET)
5. Fire-fighting measures (continued)
5.3. Advice for fire-fighters

- 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.
Avoid breathing dust, fume, gas, mist, vapours, spray.
- 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** : On land, sweep or shovel into suitable containers. Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage
7.1. Precautions for safe handling

- Personal protection** : Do not breathe dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
- Handling** : Wash thoroughly after handling. Obtain special instructions before use. Use personal protective equipment as required. Wash contaminated clothing before reuse. Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours, spray. Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist, vapours, spray. Do not eat, drink or smoke when using this product.
- Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

MATERIAL SAFETY DATA SHEET (MSDS)
CARBOL GENTIAN VIOLET STAIN (GRAM'S STAIN AN ALTERNATIVE TO GENTIAN VIOLET)
7. Handling and storage (continued)
7.2. Conditions for safe storage, including any incompatibilities

Storage	: Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.
Storage regulation	: Comply with applicable regulations.
Storage - away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Specific end use(s)	: None.
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8. Exposure controls/personal protection
8.1. Exposure controls
Personal protection


Personal protection	: Avoid all unnecessary exposure.
• Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
• Hand protection	: Wear protective gloves.
• Skin protection	: Wear suitable protective clothing.
• Eye protection	: Chemical goggles or face shield.
• Others	: When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits	: No data available.
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9. Physical and chemical properties
9.1. Information on basic physical and chemical properties

Physical state at 20 °C	: Solid.
Colour	: Colorless
Odour	: Characteristic.
Odour threshold	: No data available.

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CARBOL GENTIAN VIOLET STAIN (GRAM'S STAIN AN ALTERNATIVE TO GENTIAN VIOLET)
9. Physical and chemical properties (continued)

pH value	: Not applicable.
Melting point [°C]	: No data available.
Decomposition point [°C]	: N/A
Critical temperature [°C]	: Not applicable.
Auto-ignition temperature [°C]	: No data available.
Flammability (solid, gas)	: N/A
Flash point [°C]	: Not applicable.
Boiling point [°C]	: N/A
Initial boiling point [°C]	: Not applicable.
Final boiling point [°C]	: Not applicable.
Evaporation rate	: N/A
Vapour pressure [20°C]	: No data available.
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm ³]	: 0.988
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	: N/A
Viscosity at 40°C [mm ² /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

MATERIAL SAFETY DATA SHEET (MSDS)
CARBOL GENTIAN VIOLET STAIN (GRAM'S STAIN AN ALTERNATIVE TO GENTIAN VIOLET)
10. Stability and reactivity (continued)

Hazardous reactions : Not established.

10.4. Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.
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** : Harmful if inhaled.
- **Dermal** : Harmful in contact with skin.
- **Ingestion** : Harmful if swallowed.

Corrosion : Causes severe skin burns and eye damage.

Irritation : Causes serious eye irritation.
Causes skin irritation.

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

Mutagenicity : Suspected of causing genetic defects.

Carcinogenicity : May cause cancer.

Toxic for reproduction : Based on available data, the classification criteria are not met.

STOT-single exposure : Causes damage to organ.

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 : Harmful to aquatic life with long lasting effects.

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CARBOL GENTIAN VIOLET STAIN (GRAM'S STAIN AN ALTERNATIVE TO GENTIAN VIOLET)
12. Ecological information (continued)
12.2. Persistence - degradability

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

12.3. Bioaccumulative potential

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.

14. Transport information
14.1. Land transport (ADR-RID)

Proper shipping name : FLAMMABLE LIQUID, CORROSIVE, N.O.S.
UN N° : 2924
H.I. nr : 38
ADR - Class : 3
Labelling - Transport : 3 : Flammable liquid. 8 : Corrosive substance.



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14. Transport information (continued)

ADR - Classification code : FC
 ADR - Group : III
 ADR - Packing instructions : P001 R001
 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.

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

Proper shipping name : FLAMMABLE LIQUID, CORROSIVE, N.O.S.
 UN N° : 2924
 IMO-IMDG - Class or division : 3 : Flammable liquid. (8 : Corrosive substance.)
 IMO-IMDG - Packing group : III
 IMO-IMDG - Packing instructions : P001
 IMO-IMDG - Limited quantities : 5 L
 IMO-IMDG - Marine pollution : Yes
 EMS-Nr : F-E S-C

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

Proper shipping name : FLAMMABLE LIQUID, CORROSIVE, N.O.S.
 UN N° : 2924
 IATA - Class or division : 3 : Flammable liquid. (8 : Corrosive substance.)
 IATA - Packing group : III
 IATA - Passenger and Cargo Aircraft : ALLOWED
 - Passenger and Cargo - Packing instruction : 354
 - Passenger and Cargo - Maximum Quantity/Packing : 5 L
 IATA - Cargo only : ALLOWED
 - Cargo only - Packing instruction : 365
 - Cargo only - Maximum Quantity/Packing : 60 L
 IATA - Limited Quantities : 1 L
 ERG-Nr : 3C

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CARBOL GENTIAN VIOLET STAIN (GRAM'S STAIN AN ALTERNATIVE TO GENTIAN VIOLET)
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 : With the exception of those listed below:
 The components of this product are not subject to restrictions.
 • C.I. Basic Violet 3 with ? 0.1% of Michler's ketone (EC no. 202-027-5) : Annex XVII

REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

16. Other information

Revision : Revision - See : *

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.
 vPvB: very persistent and very bioaccumulative

Sources of key data used : 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

List of relevant R phrases (heading 3) : R10 : Flammable.
 R22 : Harmful if swallowed.
 R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed.
 R34 : Causes burns.
 R35 : Causes severe burns.
 R41 : Risk of serious damage to eyes.
 R45 : May cause cancer.
 R48/20/21/22 : Harmful : danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
 R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R68 : Possible risks of irreversible effects.

List of full text of H-statements in section 3 : H226 : Flammable liquid and vapour.
 H301 : Toxic if swallowed.
 H302 : Harmful if swallowed.
 H311 : Toxic in contact with skin.
 H314 : Causes severe skin burns and eye damage.
 H318 : Causes serious eye damage.
 H331 : Toxic if inhaled.
 H341 : Suspected of causing genetic defects.
 H350 : May cause cancer.
 H373 : May cause damage to organs through prolonged or repeated exposure.
 H400 : Very toxic to aquatic life.

MATERIAL SAFETY DATA SHEET (MSDS)

CARBOL GENTIAN VIOLET STAIN (GRAM'S STAIN AN ALTERNATIVE TO GENTIAN VIOLET)

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

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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