



Material Safety Data Sheet

| Section 1: Product and Company Identification | | | |
|--|---|--------------------|--------------|
| Product Name | Crystal Violet | | |
| Catalogue Number: | ASC-1009 | CAS Number: | 548-62-9 |
| E-mail: | Sales@ausamics.com | Website: | Ausamics.com |
| Section 2: Hazards Identification | | | |
| Classification: This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) | | | |
| Acute oral toxicity | Category 4 | | |
| Serious Eye Damage/Eye Irritation | Category 1 | | |
| Carcinogenicity | Category 2 | | |
| Label Elements | | | |
| Signal Word | Danger | | |
| Hazard Statements | Harmful if swallowed Causes serious eye damage Suspected of causing cancer | | |
| | | | |
| Precautionary Statements | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. | | |
| Response | IF exposed or concerned: Get medical attention/advice | | |
| Eyes | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician | | |
| Ingestion | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. | | |
| Storage | Store locked up | | |
| Disposal | Dispose of contents/container to an approved waste disposal plant. | | |
| Hazards not otherwise classified (HNOC) | Very toxic to aquatic life with long lasting effects. | | |

**Section 3: Composition / Information on Ingredients**

| Component | CAS No | Weight % |
|---------------------|----------|----------|
| C.I. Basic violet 1 | 548-62-9 | ~ 100.0 |

Section 4: First Aid Measures

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| General Advice | If symptoms persist, call a physician. |
| Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. |
| Skin Contact | Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. |
| Inhalation | Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur. |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur. |
| Most important symptoms and effects | None reasonably foreseeable. Causes severe eye damage. |
| Notes to Physician | Treat symptomatically |

Section 5: Firefighting Measures

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| Suitable Extinguishing Media | Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. | | |
| Unsuitable Extinguishing Media | No information available | | |
| Flash Point | Not applicable | | |
| Autoignition Temperature | No information available | | |
| Explosion Limits | | | |
| Upper | No data available | | |
| Lower | No data available | | |
| Sensitivity to Mechanical Impact | No information available | | |
| Sensitivity to Static Discharge | No information available | | |
| Specific Hazards Arising from the Chemical | Thermal decomposition can lead to the release of irritating gases and vapors. Do not allow run-off from firefighting to enter drains or water courses. | | |
| Hazardous Combustion Products | Carbon monoxide (CO). Carbon dioxide (CO2). Nitrogen oxides (NOx). Hydrogen chloride gas. | | |
| Protective Equipment and Precautions for Firefighters | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. | | |
| NFPA | | | |
| Health | Flammability | Instability | Physical hazards |
| 2 | 1 | 1 | N/A |

**Section 6: Accidental Release Measures**

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| Personal Precautions | Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. |
| Environmental Precautions | Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate the ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. |
| Methods for Containment and Clean Up | Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. |

Section 7: Handling and storage

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| Handling | Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. |
| Storage | Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from direct sunlight. Incompatible Materials. Strong oxidizing agents. Strong acids. Strong reducing agents. |

Section 8: Exposure Controls / Personal Protection

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| Exposure Guidelines | This product does not contain any hazardous materials with occupational exposure. Limits established by the region-specific regulatory bodies. |
| Engineering Measures | Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. |
| Personal Protective Equipment | |
| Eye/face Protection | Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. |
| Skin and body protection | Wear appropriate protective gloves and clothing to prevent skin exposure. |
| Respiratory Protection | Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirators if exposure limits are exceeded or if irritation or other symptoms are experienced. |
| Hygiene Measures | Handle in accordance with good industrial hygiene and safety practice. |

Section 9: Physical and Chemical Properties

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| Physical State | Solid |
| Appearance | Green |
| Odor | Odorless |
| Odor Threshold | No information available |
| pH | No information available |



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| Melting Point/Range | No data available |
| Boiling Point/Range | Not applicable |
| Flash Point | Not applicable |
| Evaporation Rate | Not applicable |
| Flammability (solid, gas) | No information available |
| Flammability or explosive limits | |
| Upper | No data available |
| Lower | No data available |
| Vapor Pressure | negligible |
| Vapor Density | Not applicable |
| Specific Gravity | No information available |
| Solubility | Soluble in water |
| Partition coefficient; n-octanol/water | No data available |
| Autoignition Temperature | No information available |
| Decomposition Temperature | No information available |
| Viscosity | Not applicable |
| Molecular Formula | C ₂₅ H ₃₀ ClN ₃ |
| Molecular Weight | 407.6831 |

Section 10: stability and Reactivity

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| Reactive Hazard | None known, based on information available |
| Stability | Stable under normal conditions. Light sensitive. |
| Conditions to Avoid | Avoid dust formation. Incompatible products. Excess heat. Exposure to light. |
| Incompatible Materials | Strong oxidizing agents, Strong acids, Strong reducing agents |
| Hazardous Decomposition Products | Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NO _x), Hydrogen chloride gas |
| Hazardous Polymerization | Hazardous polymerization does not occur. |
| Hazardous Reactions | None under normal processing. |

**Section 11: Toxicological Information****Acute Toxicity
Product Information
Component Information**

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---------------------|------------------------|-------------|-----------------|
| C.I. Basic violet 1 | LD50 = 420 mg/kg (Rat) | Not listed | Not listed |

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| Toxicologically Synergistic Products | No information available |
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

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|------------|---------------------|
| Irritation | Severe eye irritant |
|------------|---------------------|

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|---------------|--------------------------|
| Sensitization | No information available |
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| Carcinogenicity | The table below indicates whether each agency has listed any ingredient as a carcinogen. |
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| Component | CAS No | IARC | NTP | ACGIH | OSHA | Mexico |
|---------------------|----------|----------|------------|------------|------|------------|
| C.I. Basic violet 1 | 548-62-9 | Group 2B | Not listed | Not listed | X | Not listed |

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| Mutagenic Effects | No information available |
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| Reproductive Effects | No information available |
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| Developmental Effects | No information available |
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| Teratogenicity | No information available |
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| STOT - single exposure | None known |
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| STOT - repeated exposure | None known |
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| Aspiration hazard | No information available |
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| Symptoms / effects, both acute and delayed | No information available |
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| Endocrine Disruptor Information | No information available |
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| Other Adverse Effects | The toxicological properties have not been fully investigated. |
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Section 12: Ecological Information

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| Ecotoxicity | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. |
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| Component | Freshwater Algae | Freshwater Fish | Microtox | Water Flea |
|---------------------|------------------------------|-----------------|------------|----------------------------|
| C.I. Basic violet 1 | EC50 = 0.025 - 0.8 mg/l, 72h | Not listed | Not listed | EC50 = 0.24 - 5 mg/l, 48 h |



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|--------------------------------------|--|--|--|--------------------------------------|
| | (Pseudokirchneriella subcapitata) OECD 201 | | | (Daphnia magna (Water flea) OECD 202 |
| Persistence and Degradability | | Soluble in water Persistence is unlikely based on information available. | | |
| Bioaccumulation/ Accumulation | | No information available. | | |
| Mobility | | Will likely be mobile in the environment due to its water solubility. | | |
| Component | | C.I. Basic violet 1 | | |
| log Pow | | 0.51 | | |

Section 13: Disposal Consideration

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| Waste Disposal Methods | Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification. |
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Section 14: Transport Information

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| DOT UN-No Proper Shipping Name Technical Name Hazard Class Packing Group | UN3077 Environmentally hazardous substances, solid, n.o.s. C.I. Basic violet 1 9 III |
| TDG UN-No Proper Shipping Name Hazard Class Packing Group | UN3077 Environmentally hazardous substances, solid, n.o.s. 9 III |
| IATA UN-No Proper Shipping Name Hazard Class Packing Group | UN3077 Environmentally hazardous substances, solid, n.o.s. 9 III |
| IMDG/IMO UN-No Proper Shipping Name Hazard Class Packing Group | UN3077 Environmentally hazardous substances, solid, n.o.s. 9 III |

Section 15: Regulatory Information

| United States of America Inventory | | | | |
|---|---------------|-------------|--|------------------------------------|
| Component | CAS No | TSCA | TSCA Inventory notification - Active-Inactive | TSCA - EPA Regulatory Flags |
| C.I. Basic violet 1 | 548-62-9 | X | ACTIVE | - |



Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

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|--------------------------------|----------------|
| TSCA 12(b) - Notices of Export | Not applicable |
|--------------------------------|----------------|

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component | CAS No | DSL | NDSL | EINECS | PICCS | ENCS | ISHL | AICS | IECSC | KECL |
|---------------------|----------|-----|------|-----------|-------|------|------|------|-------|----------|
| C.I. Basic violet 1 | 548-62-9 | X | - | 208-953-6 | X | X | X | X | X | KE-07006 |

U.S. Federal Regulations

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|----------|----------------|
| SARA 313 | Not applicable |
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|--------------------------------|------------------------------------|
| SARA 311/312 Hazard Categories | See section 2 for more information |
|--------------------------------|------------------------------------|

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| CWA (Clean Water Act) | Not applicable |
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| Clean Air Act | Not applicable |
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| OSHA - Occupational Safety and Health Administration | Not applicable |
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| CERCLA | Not applicable |
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| California Proposition 65 | This product contains the following Proposition 65 chemicals. |
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| Component | CAS No | California Prop. 65 | Prop 65 NSRL | Category |
|---------------------|----------|---------------------|--------------|------------|
| C.I. Basic violet 1 | 548-62-9 | Carcinogen | - | Carcinogen |

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|--------------------------------------|----------------|
| U.S. State Right-to-Know Regulations | Not applicable |
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U.S. Department of Transportation

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| Reportable Quantity (RQ) | N |
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| DOT Marine Pollutant | N |
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| DOT Severe Marine Pollutant | N |
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| U.S. Department of Homeland Security | This product does not contain any DHS chemicals. |
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Other International Regulations

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| Mexico - Grade | No information available |
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Authorization /Restrictions according to EU REACH

| Component | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|---------------------|---|--|---|
| C.I. Basic violet 1 | - | Use restricted. See item 28. (see link for restriction details) Use restricted. See item 72. (see link for restriction details) Use restricted. See item 75. (see link for restriction details) | SVHC Candidate list - Carcinogenic (Article 57a) |

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

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

| Component | CAS No | OECD HPV | Persistent Organic Pollutant | Ozone Depletion Potential | Restriction of Hazardous Substances (RoHS) |
|---------------------|----------|----------------|------------------------------|---------------------------|--|
| C.I. Basic violet 1 | 548-62-9 | Not applicable | Not applicable | Not applicable | Not applicable |

| Component | CAS No | Seveso III Directive (2012/18/EC) Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) Qualifying Quantities for Safety Report Requirements | Rotterdam Convention (PIC) | Basel Convention (Hazardous Waste) |
|---------------------|----------|--|---|----------------------------|------------------------------------|
| C.I. Basic violet 1 | 548-62-9 | Not applicable | Not applicable | Not applicable | Not applicable |

Section 16: Additional Notes

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|---------------|---|
| Documented By | Ausamics Life Science Sales@Ausamics.com |
| Revision date | June 03, 2023 |



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|-----------------------------|---|
| Summary of Revisions | This document has been revised to meet the requirements of the US OSHA HazCom 2012 Standard, which supersedes the existing regulations outlined in 29 CFR 1910.1200, in order to align with the internationally recognized globally Harmonized System of Classification and Labeling of chemicals (GHS). |
| Disclaimer | The information presented in this Safety Data sheet is accurate to the best of our knowledge, information, and belief at the time of publication. It is intended as a guide for the safe handling, use, processing, storage, transportation, disposal, and release of specific materials. However, it should be interpreted as a warranty or quality specification. The provided information pertains solely to the designated material and may not be applicable to its use in combination with other materials or in any process, unless explicitly stated in the text. |