



Issuing Date 16-Dec-2009

Revision Date 09-May-2011

Revision Number 2

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Name Crystal Violet
Product Code(s) 0528
Recommended Use For Further Manufacturing Use Only
Not for Human or Animal Drug Use

Synonyms ADERGON * AIZEN CRYSTAL VIOLET * AIZEN CRYSTAL VIOLET EXTRA PURE * ANILINE VIOLET * ANILINE VIOLET PYOKTANINE * ATMONIL * AVERMIN * AXURIS * BADIL * BASIC VIOLET 3 * BASIC VIOLET BN * BISMUTH VIOLET * BLAUES PYOKTANIN (GERMAN) * BRILLIANT VIOLET 5B * CALCOZINE VIOLET C * CALCOZINE VIOLET 6BN * C.I. 42555 * C.I. BASIC VIOLET 3 * CRYSTAL VIOLET AON * CRYSTAL VIOLET BP * CRYSTAL VIOLET BPC * CRYSTAL VIOLETCHLORIDE * CRYSTAL VIOLET EXTRA PURE * CRYSTAL VIOLET EXTRA PURE APN * CRYSTAL VIOLET EXTRA PURE APNX * CRYSTAL VIOLET FN * CRYSTAL VIOLET HL2 * CRYSTAL VIOLET PURE DSC * CRYSTAL VIOLET PURE DSC BRILLIANT * CRYSTAL VIOLET SS * CRYSTAL VIOLET TECHNICAL * CRYSTAL VIOLET USP * GENTERSAL * GENTIAN VIOLET * GENTIANAVIOLETT (GERMAN) * GENTIAVERM * GENTICID * GENTIOLETTEN * HECTOGRAPH VIOLET SR * HECTO VIOLET R * HEXAMETHYL-P-ROSANILINE CHLORIDE * HEXAMETHYL P-ROSANILINE HYDROCHLORIDE * HEXAMETHYL VIOLET * HIDACO BRILLIANT CRYSTAL VIOLET * HIDACO CRYSTAL VIOLET * KRISTALL-VIOLETT (GERMAN) * MEROXYL * MEROXYLAN * MEROXYLAN-WANDER * METHYL VIOLET 5BNO * METHYL VIOLET 5BO * METHYL VIOLET 10B * METHYL VIOLET 10BD * METHYL VIOLET 10BK * METHYL VIOLET 10BN * METHYL VIOLET 10BNS * METHYL VIOLET 10BO * METHYL VIOLETT (GERMAN) * MITSUI CRYSTAL VIOLET * NCI-C55969 * OXIURAN METHYL VIOLETT (GERMAN) * MITSUI CRYSTAL VIOLET * NCI-C55969 * OXIURAN N"-HEXAMETHYL-, CHLORIDE * PLASTORESIN VIOLET 5BO * PYOKTANIN * PYOVERM * VERMICID * VIANIN * VIOLID * 12416 VIOLET * VIOLET 6BN * VIOLET 5BO * VIOLET CP * VIOLET GENCIANOVA (CZECH) * VIOLETKRYSTALOVA (CZECH) * VIOLET XXIII * VIOLET ZASADITA 3 (CZECH) *

Company
AMRESCO, LLC
6681 Cochran Road
Solon, Ohio 44139

Emergency Telephone Number Chemtrec 1-800-424-9300

Company Phone Number 1-800-448-4442
E-mail Address info@amresco-inc.com

2. HAZARDS IDENTIFICATION

GHS - Classification

Classification Acute Toxicity Oral 4 Carcinogen 2 Serious Eye Damage/Irritant 1 Aquatic Hazard (acute) 1 Aquatic Hazard (long-term) 1 Skin Irritant 2 Skin Sensitizer 1 Respiratory Sensitizer 1

Signal Word Danger



Hazard Statements H351 - Suspected of causing cancer H302 - Harmful if swallowed H318 - Causes serious eye damage H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects H315 - Causes skin irritation H335 - May cause respiratory irritation H317 - May cause an allergic skin reaction H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary Statements P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTRE or doctor/physician

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | EC No. | REACH Reg. No. | CAS-No | Weight % | Classification |
|---------------------|-------------------|----------------|----------|----------|--|
| C.I. Basic violet 1 | EEC No. 208-953-6 | Not available | 548-62-9 | 95-100 | Carc. Cat. 3; R40 Xn; R22 Xi; R41 N; R50-53 |

4. FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes

Inhalation Move to fresh air. If breathing becomes difficult, give oxygen

Ingestion Clean mouth with water and afterwards drink plenty of water

Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

| | |
|--|---|
| Flammable Properties | Not flammable |
| Flash Point | Not determined |
| Suitable Extinguishing Media | Dry chemical, CO ₂ or water spray. |
| Hazardous Combustion Products | Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride. |
| Explosion Data | |
| Sensitivity to Mechanical Impact | Not sensitive |
| Sensitivity to Static Discharge | Not sensitive |
| 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 |

6. ACCIDENTAL RELEASE MEASURES

| | |
|--------------------------------|--|
| Personal Precautions | Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation |
| Methods for Containment | Prevent further leakage or spillage if safe to do so |
| Methods for Cleaning Up | Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete. |

7. HANDLING AND STORAGE

| | |
|------------------------------|--|
| Handling | Handle in accordance with good industrial hygiene and safety practice |
| Storage | Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from light. |
| Incompatible Products | Strong oxidizing agents. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---------------------------------|-----------|----------|------------|
| C.I. Basic violet 1 548-62-9 | | | |

| | |
|--------------------------------------|--|
| Engineering Measures | Showers Eyewash stations Ventilation systems |
| Personal Protective Equipment | |
| Eye/Face Protection | Tightly fitting safety goggles |
| Skin and Body Protection | Wear protective gloves/clothing |
| Respiratory Protection | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations |

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Appearance | Granular Dark blue-green Iridescent |
| Odor | No information available |
| Odor Threshold | No information available |
| Decomposition Temperature °C | No information available |
| Freezing Point | No information available |
| Initial Boiling Point | No information available |
| Physical State | Powder Crystalline |
| pH | No data available |
| Flash Point | Not determined |
| Autoignition Temperature | No data available |
| Boiling Point/Range | No data available |
| Melting Point/Range | 215 °C |
| Flammability Limits in Air | Upper No data available Lower No data available |
| Explosive Properties | No information available |
| Oxidizing Properties | No information available |
| Evaporation Rate | No data available |
| MMHG @ 37.8 C | No data available |
| Vapor Density | No data available |
| Specific Gravity | No data available |
| Solubility | No information available |
| Partition Coefficient (n-octanol/water) | No data available |
| Viscosity | No information available |
| Molecular Weight | 408.0 |

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|--|
| Stability | Stable under recommended storage conditions |
| Incompatible Products | Strong oxidizing agents. |
| Conditions to Avoid | Protect from light and moisture. |
| Hazardous Decomposition Products | Carbon oxides. Nitrogen oxides (NOx). Hydrogen chloride. |
| Hazardous Polymerization | Hazardous polymerization does not occur |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information Toxic. Causes skin, eye and respiratory tract irritation. Sensitizer.

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---------------------|-------------------|-------------|-----------------|
| C.I. Basic violet 1 | 420 mg/kg (Rat) | | |

Chronic Toxicity

Chronic Toxicity No known effect based on information supplied

Target Organ Effects None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations

Contaminated Packaging Dispose of in accordance with all federal, state and local regulations

14. TRANSPORT INFORMATION

IATA Not regulated

DOT Not regulated

15. REGULATORY INFORMATION

REACH Title VII Restrictions No information available.

| Chemical Name | Dangerous Substances | Organic Solvents | Harmful Substances Whose Names Are to be Indicated on the Label | Pollution Release and Transfer Registry (Class II): | Pollution Release and Transfer Registry (Class I): | Poison and Deleterious Substances Control Law: |
|---------------------|----------------------|------------------|---|---|--|--|
| C.I. Basic violet 1 | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

| Component | ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying | ISHA - Harmful Substances Requiring Permission | Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals | Toxic Release Inventory (TRI) - Group I | Toxic Release Inventory (TRI) - Group II |
|--|---|--|--|---|--|
| C.I. Basic violet 1 548-62-9 (95-100) | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

International Inventories

| | |
|---------------|----------|
| TSCA | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Complies |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Complies |
| AICS | Complies |

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | No |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

CERCLA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

International Regulations

Mexico - Grade No information available.

Canada

WHMIS Hazard Class

D1B Toxic materials
D2A Very toxic materials
D2B Toxic materials



16. OTHER INFORMATION

Issuing Date 16-Dec-2009

Revision Date 09-May-2011

Revision Note
No information available.

Recommended Restrictions No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS