

## MATERIAL SAFETY DATA SHEET

### SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Material Name:** Basic Fuchsin, certified, C.I. 42510  
**Catalogue Number:** C074; C0741; C0745  
**Other Names:** Basic Violet 14; Hydrochloride, C.I. 42510; Rosaniline Chloride; p-Fuchsin; Magenta I.  
**Recommended Use:** A biological stain in electron microscopy.

**Supplier Name:** ProSciTech  
**Street Address:** 1/11 Carlton Street, Kirwan, Qld. 4817 Australia  
**Telephone Number:** (07) 4773 9444 - 8:30am – 5:00pm, Monday to Friday (excluding Public Holidays)  
**Emergency Contact:** (07) 4773 9444 - 8:30am – 5:00pm, Monday to Friday (excluding Public Holidays)

### SECTION 2 - HAZARDS IDENTIFICATION

**Hazard Classification:**  
 Hazardous according to the criteria for Classifying Hazardous Substances [NOHSC:1008].  
**Hazardous and/or Dangerous Nature:**  
 HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.  
**Risk Phrases:**  
 R22: Harmful if swallowed.  
 R40: Limited evidence of a carcinogenic effect.  
**Safety Phrases:**  
 S28: After contact with skin, wash immediately with plenty of soap and water.  
 S36/37: Wear suitable protective clothing and gloves.

*Refer to Section 15 for Poisons Schedule.*

### SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

**Pure Substance (Proportion 100%):**  
**Chemical Identity:** Basic Fuchsin  
**Common Name(s):** Basic Violet 14; Hydrochloride, C.I. 42510; Rosaniline Chloride; p-Fuchsin; Magenta I.  
**CAS Number:** 632-99-5

### SECTION 4 - FIRST AID MEASURES

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls water or milk to drink. Do NOT induce vomiting. NEVER give anything by mouth to an unconscious person. Get medical attention if irritation or symptoms appear.  
**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid immediately. DO NOT use mouth-to-mouth resuscitation.  
**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.  
**Skin Contact:** In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothes and shoes. Get medical attention if irritation develops or persists.  
**First Aid Facilities:** Eyebath/eyewash, Safety shower & general washroom facilities.  
**Medical Attention & Special Treatment:**  
 For methemoglobinemia, administer oxygen alone or with Methylene Blue depending on the methemoglobin concentration in the blood.  
**Additional Information:**  
 Antidote: Methylene Blue, alone or in combination with oxygen is indicated as a treatment in nitrite induced methemoglobinemia.

### SECTION 5 - FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:**  
 In case of fire use water spray to cool fire expose containers. Use water spray, dry chemical, Carbon dioxide, or appropriate foam. Use agent most appropriate to extinguish fire.  
**Hazards from Combustion Products:**  
 During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

**Precautions for Fire Fighters:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved or equivalent, and full protective gear.

**Hazchem Code:** 2YE

**SECTION 6 - ACCIDENTAL RELEASE MEASURES****Emergency Procedures:**

Use proper personal protective equipment as indicated in Section 8.

**Containment & Clean up:**

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

**SECTION 7 - HANDLING & STORAGE****Precautions for Safe Handling:**

Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

**Precautions for Safe Storage:**

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

**National Exposure Standards:** No exposure standard allocated.

**Biological Limit Values:** No biological limit allocated.

**Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Use adequate ventilation to keep airborne concentrations low.

**Personal Protective Equipment:**

**Eyes:** 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:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

**SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES**

**Appearance:** Metallic green to dark green powder.

**Odour:** Odourless.

**pH:** Not available.

**Vapour pressure (mm of Hg at °C):** Not available.

**Vapour density:** Not available.

**Boiling point/range (°C):** Not available.

**Freezing/melting point (°C):** 250°C.

**Solubility:** 0.26%

**Specific gravity or density:** Not available.

**Flash Point:** 200°C.

**Flammable (explosive) limits:** Not available.

**Ignition temperature:** Not available.

**SECTION 10 - STABILITY AND REACTIVITY**

**Chemical stability:** Stable under normal conditions of use.

**Conditions to avoid:** Incompatible materials, dust generation, excess heat.

**Incompatible Materials:** Aniline is incompatible with acetic anhydride, chlorosulfonic acid, hexachloromelamine, nitric acid, nitric acid + nitrogen tetroxide and sulfuric acid, nitrobenzene and glycerine, oleum, ozone, perchloric acid + formaldehyde, perchromates, performic acid, potassium peroxide, propiolactone (beta), silver perchlorate, sodium peroxide, sulfuric acid, trichloromelamine, oxidizing materials, acids, anilinium chloride, benzenediazonium-2-carboxylate, boron trichloride, 1-chloro-2,3 epoxypropane, dibenzoyl peroxide, nitromethane, nitrous acid, and tetranitromethane.

**Hazardous Decomposition Products:**

Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide.

**Hazardous Reactions:** Will not occur.**SECTION 11 - TOXICOLOGICAL INFORMATION****Exposure and Health Effects:**

Prolonged or repeated skin contact may cause dermatitis. Chronic inhalation and ingestion may cause effects similar to those of acute inhalation and ingestion. Prolong exposure may cause anemia and methemoglobinemia, characterized by dizziness, drowsiness, headache, breath shortness, cyanosis (bluish skin due to deficient oxygenation of the blood), rapid heart rate and chocolate-brown coloured blood. Chronic exposure can affect thyroid function. May cause pituitary gland abnormalities.

**Ingestion:**

May cause irritation of the digestive tract. May cause methemoglobinemia, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), convulsions, and death. Methemoglobinemia is characterized by dizziness, drowsiness, headache, shortness of breath, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), rapid heart rate and chocolate-brown coloured blood. Exposure may cause anaemia and other blood abnormalities

**Inhalation:**

May cause respiratory tract irritation. May cause methemoglobinemia, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), convulsions, tachycardia, dyspnea (laboured breathing), and death. May cause effects similar to those described for ingestion. Methemoglobinemia is characterized by dizziness, drowsiness, headache, shortness of breath, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), rapid heart rate and chocolate- brown blood.

**Eye Contact:**

May cause eye irritation.

**Skin Contact:**

May cause skin irritation. May be absorbed through the skin in harmful amounts. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. If absorbed, causes symptoms similar to those of ingestion.

**Human/Animal data:** Reproductive Effects: Adverse reproductive effects have occurred in experimental animals.

**Carcinogenic Category:** Group 2B: Possibly carcinogenic to humans.

**Other Carcinogenic Information:** The high risk of bladder cancer observed originally in workers in the aniline dye industry has been attributed to exposure to chemicals other than aniline.

**SECTION 12 – ECOLOGICAL INFORMATION**

**Ecotoxicity:** Not available.

**Persistence and degradability:** Not available.

**Mobility:** Not available.

**Additional Information:** Not available.

**SECTION 13 - DISPOSAL CONSIDERATIONS****Disposal Methods:**

Consult state and local hazardous waste regulations to ensure complete and accurate classification before disposing of this product and the containers/instruments used.

**Special Precautions/Additional Informational:**

Not available.

**SECTION 14 - TRANSPORT INFORMATION**

**UN Number:** Not regulated.

**UN Proper Shipping Name:** Not regulated.

**Class and Subsidiary risk:** Not regulated.

**Packing Group:** Not regulated.

**Special Precautions for User:** Not available.

**Hazchem Code:** 2YE

**SECTION 15 - REGULATORY INFORMATION**

**Poison Schedule Number:** None Allocated.

## **SECTION 16 - OTHER INFORMATION**

**Date of preparation of MSDS:** November 11

**Comments:**

**List of Publications referenced when creating this MSDS;**

- Hazardous Substances Information System Consolidated Lists: Safe Work Australia.
- APPROVED CRITERIA FOR CLASSIFYING HAZARDOUS SUBSTANCES [NOHSC:1008(2004)] 3rd Edition: National Occupational Health and Safety Commission.
- Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:1997).
- IATA Dangerous Goods Regulations.
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)].
- Australia Standard for the Uniform Scheduling of Drugs and Poisons [SUSPD] (Australian Government Department of Health and Ageing).

*This Material Safety Data Sheet (MSDS) has been prepared in compliance with the National code of Practice for the Preparation of Material Safety Data Sheets 2<sup>nd</sup> Edition [NOHSC:2011(2003)]. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. The information published in this MSDS has been compiled from the publications listed in Section 16: to the best of our ability and knowledge these publications are considered accurate. We reserve the right to revise Material Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.*

**... End of MSDS ...**