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FUCHSIN BASIC

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION:

Synonyms: Basic Violet 14, Hydrochloride; C.I. 42510; Rosaniline Chloride, p-Fuchsin, Mangenta

ICAS No.: 632-99-5

Molecular Weight: 337.84

Chemical Formula: C₂₀H₁₉N₃*HCl

2. COMPOSITION, INFORMATION ON INGREDIENTS:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Percent</u>	<u>Hazardous</u>
Basic Fuchsin	632-99-5	ca 100	No

3. HAZARDS IDENTIFICATION:

Emergency Overview

Appearance: Metallic green to dark green solid **CAUTION!** Methemoglobin former - can cause cyanosis. May cause eye and skin irritation. May cause respiratory and digestive tract irritation. Potential cancer hazard. May cause cancer based on animal studies.

Target Organs: Blood, blood forming organs, thyroid.

Potential Health Effects

Eyes: May cause eye irritation.

Skin: 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.

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 colored blood. Exposure may cause anemia 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 (labored 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.

Chronic: 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 colored blood. Chronic exposure can affect thyroid function. May cause pituitary gland abnormalities.

4. FIRST AID MEASURES:

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin: 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.

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.

Notes to Physician: For methemoglobinemia, administer oxygen alone or with Methylene Blue depending on the methemoglobin concentration in the blood.

Antidote: Methylene Blue, alone or in combination with oxygen is indicated as a treatment in nitrite induced methemoglobinemia.

5. FIRE FIGHTING MEASURES:

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

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.

Flash Point: 200 deg C (392.00 def F)

Autoignition Temperature: Not applicable

Explosion Limits, Lower: Not available

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0.

6. ACCIDENTAL RELEASE MEASURES:

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: 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.

7. HANDLING AND STORAGE:

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.

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

8. EXPOSURE CONTROLS, PERSONAL PROTECTION:

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.

Exposure Limits

<u>Chemical Name</u>	<u>ACGIH</u>	<u>NIOSH</u>	<u>OSHA - Final PEL's</u>
Basic Fuchsin	None listed	None listed	None listed

OSHA Vacated PELs: Basic Fuchsin : No OSHA Vacated PELs are listed for this chemical.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Solid

Appearance: Metallic green to dark green

Odor: Odorless

Freezing/Melting Point: 250 deg C dec

pH: Not available.

Vapor Pressure (mm Hg): Not available.

Vapor Density (Air = 1): Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Decomposition Temperature: 200 deg C

Solubility: 0.26%

Specific Gravity/Density: Not available.

10. STABILITY AND REACTIVITY:

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions. May decompose if heated.

Conditions to Avoid: Incompatible materials, dust generation, excess heat.

Incompatibilities with Other 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, nitrogenoxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION:

RTECS: CAS# 632-99-5: CX9850000

LD50/LC50: CAS# 632-99-5: Not available

Carcinogenicity: CAS#632-99-5:

ACGIH: Not listed **NTP:** Not listed **IARC:** Group 2B carcinogen

Epidemiology: 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. IARC Group 2B: Proven animal carcinogenic substance of potential relevance to humans.

Teratogenicity: No information found.

Reproductive Effects: Adverse reproductive effects have occurred in experimental animals.

Neurotoxicity: No information found.

Mutagenicity: No information found.

Other Studies: No data available.

12. ECOLOGICAL INFORMATION:

Environmental Fate: No information available.

Environmental Toxicity: No data available.

13. DISPOSAL CONSIDERATIONS:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous

waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

14. TRANSPORT INFORMATION:

Not regulated.

15. REGULATORY INFORMATION:

US FEDERAL

TSCA CAS# 632-99-5 is listed on the TSCA inventory.

Health & Safety Reporting List None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules None of the chemicals in this product are under a Chemical Test Rule.

Section 12b None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule None of the chemicals in this material have a SNUR under TSCA.

SARA

CERCLA Hazardous Substances and corresponding RQs None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances None of the chemicals in this product have a TPQ.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA None of the chemicals in this product are considered highly hazardous by OSHA.

STATE CAS# 632-99-5 is not present on state lists from CA, PA, MA, MN, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

EUROPEAN/INTERNATIONAL REGULATIONS

European Labeling in Accordance with EC Directives

Hazardous Symbols: XN

Risk Phrases: R 40 Limited evidence of a carcinogenic effect.

Safety Phrases: S 36/37 Wear suitable protective clothing and gloves.

WGK (Water Danger/Protection) CAS# 632-99-5: No information available.

Canada - DSL/NDSL CAS# 632-99-5 is listed on Canada's DSL List.

Canada - WHMIS This products has a WHMIS classification of D2A, D2B.

CAS# 632-99-5 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

16. DISCLAIMER INFORMATION:

DISCLAIMER

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