OXFORD LAB FINE CHEM LLP

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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

PARAROSANILINE CHLORIDE 98%

(For Microscopy)

MSDS CAS: 569-61-9

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: PARAROSANILINE CHLORIDE

CAS#: 569-61-9

Synonym: Basic Fuchsin, C.I. 42500, Basic Red 9 hydrochloride, C.I. Basic Red 9 monohydrochloride; Paramagenta, Basic Red 9, C.I. Basic Red 9hydrochloride, Basic Parafuchsine, Pararosanilin; 4,4'((4-imino-2,5-cyclohexadien-1-ylidene)methylene)dianiline monhydrochloride; Pararosaniline Chloride; Pararosaniline Hydrochloride; p-Fuchsin

Chemical Name: Benzenamine, 4((4-aminophenyl) (4-imino-2,5-cyclohexadien-1-ylidene)methyl), monohydrochloride

C.I.NO.: 42500

Chemical Formula: $C_{19}H_{18}ClN_3$ or $C_{19}H_{17}N_3.HCl$

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: **OXFORD LAB FINE CHEM LLP**
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
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Section 2: Composition and Information on Ingredients

Composition:

Substance name	CAS #	% by Weight
Pararosaniline Chloride	569-61-9	100

Section 2: Composition and Information on Ingredients (Continued)

Toxicological Data on Ingredients: **Pararosaniline Chloride: ORAL (LD50): Acute: 5000 mg/kg [Mouse].**

Section 3: Hazards Identification

Potential Acute Health Effects:

Hazardous in case of skin contact (permeator), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).

Potential Chronic Health Effects:

Slightly hazardous in case of skin contact (sensitizer). CARCINOGENIC EFFECTS: Classified 2B (Possible for human.) by IARC. Classified 2 (Some evidence -anticipated carcinogen.) by NTP. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to blood, liver, spleen, thyroid. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention.

Skin Contact:

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Section 4: First Aid Measures (Continued)

Serious Inhalation: **Not available.**

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: **Not available.**

Section 5: Fire and Explosion Data

Flammability of the Product: **May be combustible at high temperature.**

Auto-Ignition Temperature: **Not Available.**

Flash Points: **Not Available.**

Flammable Limits: **Not Available.**

Products of Combustion:
These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...), and halogenated compounds.

Fire Hazards in Presence of Various Substances:
Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:
Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.

Fire Fighting Media and Instructions:
SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards:
As with most organic solids, fire is possible at elevated temperatures when heated to decomposition it emits very toxic fumes of hydrogen chloride and nitrogen oxides

Special Remarks on Explosion Hazards:
Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust explosion hazard.

Section 6: Accidental Release Measures

Small Spill:
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, reducing agents, acids, alkalis.

Storage: **Keep container tightly closed. Keep container in a cool, well-ventilated area.**

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:
Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: **Not Available.**

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (crystalline powder.)
Odor : Odorless.
Taste : Not available.
Molecular Weight : 323.83 g/mole
Color : Green. (Dark.)
pH (1% soln/water) : Not available.
Boiling Point : Not available.
Melting Point : Decomposition temperature: 268°C (514.4°F) - 270 C.
Critical Temperature : Not available.
Specific Gravity : Not available.
Vapor Pressure : Not available.
Vapor Density : Not available.
Volatility : Not available.
Odor Threshold : Not available.
Water/Oil Dist. Coeff. : The product is more soluble in water; log(oil/water) = -0.2
Ionicity (in Water) : Cationic.
Dispersion Properties : Not available.
Solubility : Very slightly soluble in cold water, diethyl ether. Soluble in alcohol.
Solubility in water: 2-3 mg/ml water. Solubility in ethanol: 2-25 mg/ml ethanol.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, dust generation, incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents, reducing agents, acids.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:
Aniline is incompatible with acetic anhydride, chlorosulfonic acid, hexachlormelamine, nitric acid, nitric acid + nitrogen tetroxide and sulfuric acid, nitrobenzene and glycerin, oleulm, ozone, perchloric acid + formaldehyde, perchromates, performic acid, trichloromelamine, anilinium chloride, benzenediazonium-2-

Section 10: Stability and Reactivity Data (Continued)

Carboxylate, boron trichloride, 1-chloro-2,3-epoxypropane, dibenzoyl peroxide, nitromethane, nitrous acid, and tetranitromethane. Destroyed by strong oxidizing agents. Readily reduced to leuco-bases with a variety of reducing agents sensitive to photochemical oxidation.

Special Remarks on Corrosivity: **Not available.**

Polymerization: **Will not occur.**

Section 11: Toxicological Information

Routes of Entry: **Absorbed through skin. Dermal contact. Inhalation. Ingestion.**

Toxicity to Animals: **Acute oral toxicity (LD50): 5000 mg/kg [Mouse].**

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: Classified 2B (Possible for human.) by IARC. Classified 2 (Some evidence – anticipated carcinogen.) by NTP. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. May cause damage to the following organs: blood, liver, spleen, thyroid.

Other Toxic Effects on Humans:
Hazardous in case of skin contact (permeator), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).

Special Remarks on Toxicity to Animals: **Not available.**

Special Remarks on Chronic Effects on Humans:
May affect genetic material (mutagenic). May cause cancer.

Special Remarks on other Toxic Effects on Humans:
Potential Health Effects: Skin: May cause skin irritation. It may be absorbed through the skin in harmful amounts. Effects from skin absorption may be similar to that of inhalation and ingestion. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Eyes: May cause eye irritation. May cause corneal damage. Inhalation: May cause respiratory tract irritation. Ingestion: Causes gastrointestinal tract irritation with colicky pain, nausea, vomiting and diarrhea, dryness of the throat. May affect respiration and cause cyanosis. Exposure from skin absorption, inhalation or ingestion may cause methemoglobinemia and cyanosis. Symptoms of methemoglobinemia may include: grayish/bluish coloring of the skin, which may also appear with out signs of cardiac or pulmonary insufficiency, navy blue to black mucous membranes, dyspnea, shortness of breath, central nervous system effects - headache, dizziness, lethargy, ataxia, vertigo, muscle contraction or spasticity, weakness, faintness, disorientation, confusion,

Section 11: Toxicological Information (Continued)

tinnitus, drowsiness, convulsions, tremor, seizures, paresthesias, muscle pain, coma-, cardiovascular system effects - heart blocks, and arrhythmias, tachycardia, vascular dystonia, cardiovascular collapse-, sluggish pupillary reaction, weakness of vision, photophobia. It may also affect the urinary system (oliguria, renal insufficiency, kidney damage, hemoglobinuria, painful micturition, hematuria, ethemoglobinuria), liver, metabolism (weight loss), blood (anemia, chocolate colored blood), spleen, thyroid, pituary gland.

Section 12: Ecological Information

Ecotoxicity: **Not available.**

BOD5 and COD: **Not available.**

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation:
The products of degradation are more toxic than the product itself.

Special Remarks on the Products of Biodegradation: **Not available.**

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

Land transport (ADR-RID)

General information: **Not regulated.**

Sea transport (IMDG) [English only]

General information: **Not regulated.**

Section 14: Transport Information (Continued)

Air transport (ICAO-IATA) [English only]

General information: **Not regulated.**

Section 15: Other Regulatory Information

Federal and State Regulations:

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Basic fuchsin (listed as C.I. Basic Red 9 monohydrochloride) California prop. 65 (no significant risk level): Basic fuchsin: 0.003 mg/day (value) California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Basic fuchsin (listed as C.I. Basic Red 9 monohydrochloride) Florida: Basic fuchsin Minnesota: Basic fuchsin Massachusetts RTK: Basic fuchsin Massachusetts spill list: Basic fuchsin TSCA 8(b) inventory: Basic fuchsin

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not Available

DSCL (EEC): R45- May cause cancer. S36/37- Wear suitable protective clothing and gloves. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

HMIS (U.S.A.):

Health Hazard: 2
Fire Hazard: 1
Reactivity: 0
Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2
Flammability: 1
Reactivity: 0
Specific hazard:

Section 15: Other Regulatory Information (Continued)

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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