OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

CARBOL FUCHSIN POWDER
(For Microscopy)

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product
Product Name: Carbol Fuchsin
CAS#: 4197-24-4
Synonym:
Chemical Name: Not available.
Chemical Formula: Not applicable.

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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Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Basic fuchsin	569-61-9	1
Phenol	108-95-2	8
Ethyl alcohol 200 Proof	64-17-5	20
Water	7732-18-5	71

Toxicological Data on Ingredients: Not applicable.

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Section 3: Hazards Identification

Potential Acute Health Effects:

Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (corrosive). Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects:

Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (corrosive). Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. NTP [Basic fuchsin].
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: PROVEN [Ethyl alcohol 200 Proof] The substance is toxic to lungs, mucous membranes, the reproductive system.
Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4: First Aid Measures

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:

If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical got on the victim's exposed skin, such as the hands : Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

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Section 4: First Aid Measures (Continued)

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation: **Allow the victim to rest in a well ventilated area. Seek immediate medical attention.**

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation.
WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion:
Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: **Not available.**

Section 5: Fire and Explosion Data

Flammability of the Product: **Flammable.**

Auto-Ignition Temperature: **The lowest known value is 422°C (791.6°F) (Ethyl alcohol 200 Proof).**

Flash Points:
The lowest known value is CLOSED CUP: 12.78°C (55°F). OPEN CUP: 12.78°C (55°F). (Cleveland). (Ethyl alcohol 200 Proof).

Flammable Limits: **The greatest known range is LOWER: 3.3% UPPER: 19% (Ethyl alcohol 200 Proof)**

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

Fire Hazards in Presence of Various Substances:
Slightly flammable to flammable in presence of open flames and sparks, of heat, of oxidizing materials

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Section 5: Fire and Explosion Data (Continued)

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
Flammable liquid, soluble or dispersed in water.
SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use alcohol foam, water spray or fog.

Special Remarks on Fire Hazards:
Containers should be grounded. CAUTION: MAY BURN WITH NEAR INVISIBLE FLAME Vapor may travel considerable distance to source of ignition and flash back. (Ethyl alcohol 200 Proof).

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:
Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill:
Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep locked up Keep container dry. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/spray. Never add water to this product 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.

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Section 7: Handling and Storage (Continued)

Storage:

Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. A refrigerated room would be preferable for materials with a flash point lower than 37.8°C (100°F).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

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. Vapor 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:

Phenol TWA: 5 (ppm) from ACGIH (TLV) [1995] TWA: 19 (mg/m3) from ACGIH [1995] Ethyl alcohol 200 Proof TWA: 1000 (ppm) from OSHA (PEL) TWA: 1900 (mg/m3) from OSHA Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor	**: Not available.**
Taste	**: Not available.**
Molecular Weight	**: Not applicable.**
Color	**: Not available.**
pH (1% soln/water)	**: Neutral.**

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Section 9: Physical and Chemical Properties (Continued)

Boiling Point	**: The lowest known value is 78.5°C (173.3°F) (Ethyl alcohol 200 Proof). Weighted average: 95.27°C (203.5°F)**
Melting Point	**: May start to solidify at -114.1°C (-173.4°F) based on data for: Ethyl alcohol 200 Proof.**
Critical Temperature	**: Not available.**
Specific Gravity	**: Weighted average: 0.95 (Water = 1)**
Vapor Pressure	**: The highest known value is 43 mm of Hg (@ 20°C) (Ethyl alcohol 200 Proof). Weighted average: 23.13 mm of Hg (@ 20°C)**
Vapor Density	**: The highest known value is 1.59 (Air = 1) (Ethyl alcohol 200 Proof). Weighted average: 0.83 (Air = 1)**
Volatility	**: Not available.**
Odor Threshold	**: Not available.**
Water/Oil Dist. Coeff.	**: Not available.**
Ionicity (in Water)	**: Not available.**
Dispersion Properties	**: See solubility in water, methanol, diethyl ether.**
Solubility	**: Easily soluble in cold water, hot water, methanol, diethyl ether.**

Section 10: Stability and Reactivity Data

Stability: **The product is stable.**

Instability Temperature: **Not available.**

Conditions of Instability: **Not available.**

Incompatibility with various substances: **Slightly reactive to reactive with oxidizing agents.**

Corrosivity: **Non-corrosive in presence of glass.**

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

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

Polymerization: **No.**

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Section 11: Toxicological Information

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

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 270 mg/kg [Mouse]. (Phenol). Acute dermal toxicity (LD50): 669 mg/kg [Rat]. (Phenol). Acute toxicity of the vapor (LC50): 8000 ppm 4 hour(s) [Rat.]. (Ethyl alcohol 200 Proof). Acute toxicity of the dust (LC50): 2725.1 mg/m3 4 hour(s) [Mouse]. (Phenol).

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: Classified + (PROVEN) by OSHA [Basic fuchsin]. Classified 2B (Possible for human.) by IARC [Basic fuchsin]. Classified 2 (Reasonably anticipated.) by NTP [Basic fuchsin]. DEVELOPMENTAL TOXICITY: PROVEN [Ethyl alcohol 200 Proof] The substance is toxic to lungs, mucous membranes, the reproductive system.

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

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

Special Remarks on Chronic Effects on Humans: **Foetotoxic in animal. (Phenol).**

Special Remarks on other Toxic Effects on Humans:
Moderately toxic and narcotic in high concentrations. Experimentaly tumorigen. (Ethyl alcohol 200 Proof).

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.

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Section 12: Ecological Information (Continued)

Toxicity of the Products of Biodegradation: **The products of degradation are more toxic.**

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

Section 13: Disposal Considerations

Waste Disposal **:**

Section 14: Transport Information

DOT Classification: **CLASS 3: Combustible liquid with a flash point greater than 37.8C (100F).**

Identification: **Ethyl Alcohol, Solution.**

UN No: **1170**

Packing Group: **III**

Special Provisions for Transport: **No DOT, ref 49CFR, 173.150.**

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; Ethyl alcohol 200 Proof California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Ethyl alcohol 200 Proof 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; Ethyl alcohol 200 Proof Pennsylvania RTK: Phenol; Ethyl alcohol 200 Proof

Section 15: Other Regulatory Information (Continued)

Florida: Basic fuchsin Minnesota: Basic fuchsin Massachusetts RTK: Basic fuchsin; Phenol; Ethyl alcohol 200 Proof TSCA 8(b) inventory: Basic fuchsin; Phenol; Ethyl alcohol 200 Proof; Water SARA 302/304/311/312 extremely hazardous substances: Phenol SARA 313 toxic chemical notification and release reporting: Phenol CERCLA: Hazardous substances.: Phenol;

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada): CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC): R11- Highly flammable. R38- Irritating to skin. R41- Risk of serious damage to eyes. R43- May cause sensitization by skin contact. R45- May cause cancer.

HMIS (U.S.A.):

Health Hazard: 2
Fire Hazard: 2
Reactivity: 0
Personal Protection: h

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

Health: 3
Flammability: 2
Reactivity: 0
Specific hazard:

Protective Equipment:

Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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