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MATERIAL SAFETY DATA SHEET

EMERGENCY ASSISTANCE - 24 hour

For emergency assistance involving chemicals call CHEMTREC (800) 424-9300.

SECTION 1: MATERIAL INFORMATION

Common Name: KINYOUN CARBOLFUCHSIN STAIN SOLUTION
Synonyms:
Catalog Number: R5895, R5896, R5925
CAS #: N/AV
WARNING: POISON, TOXIC: CONTAINS PHENOL, FLAMMABLE

SECTION 2: HAZARDOUS INGREDIENTS

<u>Hazardous Components</u>	<u>CAS #</u>	<u>Chemical Family</u>	<u>Molecular Formula</u>	<u>Approximate Concentration</u>
Basic Fuchsin	632-99-5	Basic Dye	C ₂₀ H ₉ N ₃ Cl	3.4%
Ethanol, denatured	64-17-5	Alcohol	C ₂ H ₅ OH	16.7%
Phenol	108-95-2	Phenols	C ₆ H ₅ OH	6.7%

SECTION 3: PHYSICAL DATA

Appearance: Heavy, opaque, red liquid	pH: N/AV	Vapor Density: N/AV
Boiling Point: N/AV	Solubility in Water: Appreciable	Flash Point: 46°C (114°F) cc
Melting Point: N/AV	Vapor Pressure: N/AV	Evaporation Rate: N/AV
Odor: Pungent odor	Specific Gravity: N/AV	

SECTION 4: FIRE AND EXPLOSION HAZARD

Flammable: Yes

Flammable Limits:

Upper: N/AV Lower: N/AV

Extinguish Media:

Water spray, carbon dioxide, dry chemical, "alcohol" or polymer foam

Special Hazards:

Wear self-contained, positive-pressure breathing apparatus and full protective clothing.

Unusual Fire and Explosion Hazards:

None

SECTION 5: REACTIVITY DATA

Stable: Unstable:

Conditions to Avoid:

Heat, sparks, open flame

Materials to Avoid:

- Water -
- Acids -
- Bases -
- Corrosives -
- Oxidizers -
- Other: Aluminum Chloride and Nitrobenzene, Butadiene, Calcium Hypochlorite

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide

SECTION 6: HEALTH HAZARD DATA

To the best of our knowledge, the chemical, physical, and toxicological properties of this mixture have not been thoroughly investigated. Presented below are specific data on each of the subcomponent ingredients:

<u>Hazardous Component</u>	<u>%</u>	<u>Threshold Limit Value</u>	<u>TXDS</u>
Basic Fuchsin	3.3%	N/AV	N/AV (Possible carcinogen)
Ethanol	16.7%	1000 ppm	N/AV
Phenol	6.7%	5 ppm or 19 mg/M ³	ORL-RAT LD50: 414 mg/kg

Effects of Overexposure (Acute and Chronic):**POISON; contains PHENOL**

May cause inebriation, nausea and vomiting. May cause skin and eye burns. May penetrate skin. May cause collapse and death. Breathing vapors may cause irritation, vomiting, drowsiness.

Carcinogenicity: These products do not contain any carcinogens at 0.1% or greater.

First Aid Procedure:

Skin Contact: Wash with soap and copious amounts of water.

Eye Contact: Wash with copious amounts of water.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration; if breathing is difficult, give oxygen; seek medical attention.

Ingestion: Do not induce vomiting. Give milk or water and seek medical attention immediately.

In all cases of overexposure seek medical attention.

Wash contaminated clothing before reuse.

SECTION 7: SPILL OR LEAK PROCEDURES AND DISPOSAL

Steps to be taken if Material is Released or Spilled:

Ventilate area. Pick up with an absorbent material. Wash spill area.

Waste Disposal Method:

Observe all local, provincial, state, and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Provide adequate general mechanical and local exhaust ventilation.

Avoid prolonged or repeated inhalation of vapor.

Protect eyes, skin, and clothing with safety goggles and gloves.

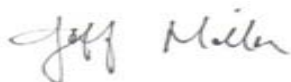
Wash thoroughly after handling.

SECTION 9: SPECIAL HANDLING AND STORAGE PRECAUTIONS

Keep container tightly closed. Store in cool dry area. Protect from physical damage.

SECTION 10: MSDS PREPARATION AND INFORMATION

Date Issued: 9/89
 Current Revision: 1/08
 Revised By: Jeff Miller



Authorized Signature: _____

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES:

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This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.

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SECTION 1: MATERIAL INFORMATION

Common Name: **KINYOUN DECOLORIZER**
Synonyms: Decolorizer for Kinyoun and Ziehl/Neelson Stain
Catalog Number: R5915, R5916, R5925
CAS #: N/AV
WARNING: POISON, FLAMMABLE

SECTION 2: HAZARDOUS INGREDIENTS

<u>Hazardous Components</u>	<u>CAS #</u>	<u>Chemical Family</u>	<u>Molecular Formula</u>	<u>Approximate Concentration</u>
Ethanol, denatured	64-17-5	Alcohol	C ₂ H ₅ OH	97%
Hydrochloric Acid, 12N	7647-01-0	Acid	HCl	3%

SECTION 3: PHYSICAL DATA

Appearance: Clear, colorless liquid	pH: N/AV	Vapor Density: N/AV
Boiling Point: N/AV	Solubility in Water: Very	Flash Point: 14°C (57°F) cc
Melting Point: N/AV	Vapor Pressure: N/AV	Evaporation Rate: N/AV
Odor: Alcohol	Specific Gravity: N/AV	

SECTION 4: FIRE AND EXPLOSION HAZARD

Flammable: Yes: Flammable liquid

Flammability Limits:

Upper: N/AV Lower: N/AV

Extinguish Media:

Use carbon dioxide or dry chemical for small fires.
 Use "alcohol" foam or water spray for large fires.

Special Hazards:

Wear self-contained, positive-pressure breathing apparatus and full protective clothing.

Unusual Fire and Explosion Hazards:

None

SECTION 5: REACTIVITY DATA

Stable: Unstable:

Conditions to Avoid:

Heat, sparks, open flame

Materials to Avoid:

- Water -
- Acids -
- Bases -
- Corrosives -
- Oxidizers -
- Other: Alkalies and amines

Hazardous Decomposition Products:

Thermal decomposition or burning may produce carbon monoxide, hydrogen chloride gas.

SECTION 6: HEALTH HAZARD DATA

To the best of our knowledge, the chemical, physical, and toxicological properties of this mixture have not been thoroughly investigated. Presented below are specific data on each of the subcomponent ingredients:

<u>Hazardous Component</u>	<u>%</u>	<u>Threshold Limit Value</u>	<u>TXDS</u>
Ethanol, denatured	97%	1000 ppm	N/AV
Hydrochloric Acid	3%	5 ppm	IHL-HMN LDLO: 1000 ppm/ 1 M

Effects of Overexposure (Acute and Chronic):

May cause inebriation, headache, nausea, vomiting, irritation of respiratory passages, dermatitis, eye damage, chest pain, drowsiness, choking cough, burns, pulmonary edema, circulatory collapse and death.

Carcinogenicity: These products do not contain any carcinogens at 0.1% or greater.

First Aid Procedure:

Skin Contact: Wash with copious amounts of water
Eye Contact: Flush with copious amounts of water for 15 minutes.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration; if breathing is difficult, give oxygen; seek medical attention.
Ingestion: Induce vomiting. Seek medical attention.

In all cases of overexposure seek medical attention.
 Wash contaminated clothing before reuse.

SECTION 7: SPILL OR LEAK PROCEDURES AND DISPOSAL

Steps to be taken if Material is Released or Spilled:

Ventilate area and eliminate all sources of ignition. Flush area with water and pick up with an absorbent material.

Waste Disposal Method:

Observe all local, provincial, state, and federal regulations.

SECTION 8: SPECIAL PROTECTION INFORMATION

Provide adequate general mechanical and local exhaust ventilation.
 Avoid prolonged or repeated inhalation of vapor.
 Protect eyes, skin, and clothing with safety goggles and gloves.
 Wash thoroughly after handling.

SECTION 9: SPECIAL HANDLING AND STORAGE PRECAUTIONS

Keep container tightly closed. Protect against physical damage. Store in a cool, dry place.

SECTION 10: MSDS PREPARATION AND INFORMATION

Date Issued: 9/89
Current Revision: 1/08
Revised By: Jeff Miller



Authorized Signature: _____

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