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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 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

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Revised By: Charissa H. Bolind

Authorized Signature: _____


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