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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: **RAPID HIPPURATE TEST KIT**
Synonyms: Ninhydrin Reagent
Catalog Number: F5050, F5051
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>
Acetone	67-64-1	Ketone	(CH ₃) ₂ CO	48%
Butanol-N	71-36-3	Alcohol	C ₄ H ₉ OH	48%
Ninhydrin	485-47-2	N/AV	C ₉ H ₆ O ₄	4%

SECTION 3: PHYSICAL DATA

Appearance: Clear yellow liquid	pH: N/AV	Vapor Density: N/AV
Boiling Point: N/AV	Solubility in Water: Appreciable	Flash Point: <0°C (<32°F) cc
Melting Point: N/AV	Vapor Pressure: N/AV	Evaporation Rate: N/AV
Odor: Strong pungent odor	Specific Gravity: N/AV	

SECTION 4: FIRE AND EXPLOSION HAZARD

Flammable: Yes, flammable liquid

Flammable Limits: Upper: N/AV Lower: N/AV

Extinguish Media: Alcohol foam for large fires. CO₂ or dry chemical for small fires.

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

Unusual Fire and Explosion Hazards: Flammable; moderate explosion hazard when vapor is exposed to flame. Emits toxic fumes under fire conditions.

SECTION 5: REACTIVITY DATA

Stable: X **Unstable:**

Conditions to Avoid:

Heat, sparks, open flame

Materials to Avoid:

- () Water -
- (X) Acids -
- () Bases -
- () Corrosives -
- () Oxidizers -
- (X) Other: Heat, flame, CrO, CrO(OCl)₂, NOCl

Hazardous Decomposition Products:

Carbon dioxide, Carbon monoxide

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>
Acetone	48%	590 mg/m ³	ORL-HMN LDLO: 50 mg/kg SKN-RBT LDLO: 20gm/kg INH-HMN TCLO: 500 ppm
Butanol	48%	100 ppm or 300 mg/m ³	ORL-RAT LD50: 790 mg/kg
Ninhydrin	4%	N/A	I.P.-MUS LD50: 78 mg/kg

Effects of Overexposure (Acute and Chronic):

May cause headache, dizziness, irritation of eyes, respiratory tract, and mucous membranes, loss of strength, narcosis, nausea, vomiting.

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

First Aid Procedure:

- Skin Contact:** Wash with soap and copious amounts of water.
- Eye Contact:** Flush eyes 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:** Do not induce vomiting. Give milk or water to dilute. Seek medical attention in all cases of overexposure.

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. Eliminate all sources of ignition. Take up with absorbent material. Flush spill area with water.

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.

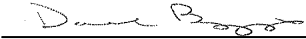
Wash thoroughly after handling.

SECTION 9: SPECIAL HANDLING AND STORAGE PRECAUTIONS

Keep in tightly closed container. Store in cool, dry area away from all sources of heat, flame, or ignition.

SECTION 10: MSDS PREPARATION AND INFORMATION

Date Issued: 1/95
 Current Revision: 01/2011
 Revised By: Charissa H. Bolind

Authorized Signature: 

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