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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: **IDENTICULT®-ALBICANS**
 (Including Enhancer and Color Reagent)

Synonyms: N/AP **Catalog Number:** F4018 **CAS #:** N/AV **WARNING:** POISON, CARCINOGEN, IRRITANT

SECTION 2: HAZARDOUS INGREDIENTS

<u>Hazardous Components</u>	<u>CAS #</u>	<u>Chemical Family</u>	<u>Molecular Formula</u>	<u>Approximate Concentration</u>
<u>Test Card, Side A</u> N.N. Dimethylformamide	68-12-2	Organic Solvent	C ₃ H ₇ NO	93% (dry disk)
<u>Test Card, Side B</u> Ethanol	64-17-5	Alcohol	C ₂ H ₅ OH	98% (dry disk)
<u>Identicult Enhancer Reagent, Cat. No. R6772</u> Sodium Azide	26628-28-8	Azide	N ₃ NA	0.1%
<u>Identicult Color Reagent, Cat. No. R6771</u> Hydrochloric Acid, 12N	7647-01-0	Acid	HCl	1.50%
Ethanol	64-17-5	Alcohol	C ₂ H ₅ OH	30.00%
P-dimethylamino-cinnamaldehyde	6203-18-5	Aldehyde	C ₁₁ H ₁₃ NO	0.14%

SECTION 3: PHYSICAL DATA

	<u>Test Disk</u>	<u>Enhancer Reagent</u>	<u>Color Reagent</u>
Appearance:	Paper, Side A	Paper, Side B	Clear liquid
Boiling Point:	N/AV	N/AV	N/AV
Melting Point:	N/AV	N/AV	N/AV
Odor:	None	None	None
pH:	N/AV	N/AV	N/AV
Solution in Water:	N/AV	N/AV	N/AV
Vapor Pressure:	N/AV	N/AV	N/AV
Specific Gravity:	N/AV	N/AV	N/AV
Vapor Density:	N/AV	N/AV	N/AV
Flash Point:	N/AV	N/AV	N/AV
Evaporation Rate:	N/AV	N/AV	N/AV

SECTION 4: FIRE AND EXPLOSION HAZARD

	<u>Test Strips</u>	<u>Buffer Reagent</u>	<u>Color Reagent</u>
Flammable:	No	No	Yes: Flammable liquid
Flammability Limits: All:	Upper: N/AP	Lower: N/AP	

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 - (X) Bases - Strong () Oxidizers -
() Acids - () Corrosives - (X) 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>
N,N. Dimethylformamide	93% (dry disk)	10 ppm (skin)	ORDL (LD50): Acute 2800 mg/kg (Rat) (Carcinogen)
Ethanol	30%; 98% (dry disk)	1000 ppm	DERMOL (LD50): Acute 5000 mg/kg
Sodium Azide	0.10%	0.07 ppm	ORAL-HMN (LDLO) 1400 mg/kg
Hydrochloric Acid 12N	1.5%	5 ppm	INL-HMN (LDLO) 1000 ppm/1m
P. dimethylaminocinnamaldehyde	0.14%	N/AV	N/AV

Effects of Overexposure (Acute and Chronic): Harmful if swallowed, inhaled, or absorbed through skin. Can be destructive to mucous membranes.

Carcinogenicity: The disks do contain a carcinogen at 0.1% or greater.

(Dimethylformamide) classified 2A by IARC

Slightly dangerous to dangerous in case of skin contact (permeater). Very dangerous in case of eye contact (irritant) or inhalation.

First Aid Procedure:

Skin Contact: Flush with copious amounts of water, then wash with soap and water.

Eye Contact: Flush with water for 15 minutes; get immediate medical attention.

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 water, milk, milk of magnesia, or activated charcoal to dilute. 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:

Take up with 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. Protect against physical damage. Store in refrigerator.

SECTION 10: MSDS PREPARATION AND INFORMATION

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Revised By: Charissa H. Bolind

Authorized Signature: _____



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