

**MSDS - Material Safety Data Sheet****Product Name: Invisible Skin Marking Ink**

MSDS No.: UV743E/L

**I. Basic Information:****Manufacturer:** Sirchie Finger Print Laboratories**Address:** 100 Hunter Place**City, ST Zip:** Youngsville, NC 27596**Emergency Contact:** ChemTrec**Emergency Telephone Number:** 800-424-9300**Contact:** Tech Support**Information Telephone Number:** 919-554-2244**Last Update:** 02/02/2011**Expiration Date:****Chemical State:**  Liquid  Gas  Solid**Chemical Type:**  Pure  Mixture

1	Health
4	Flammability
1	Reactivity
H	Pers. Protection

**II. Ingredients:** Trade Secret

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z	313					
64175	Ethyl alcohol	93.8							1000 ppm	1000 ppm	
27344065	Leucophor BSB Special Liquid	1.2									
7732185	Water (Distilled)	5.0							None	None	212 F

**III. Hazardous Identification:****Hazard Category:** Acute Chronic Fire Pressure Reactive**Hazardous Identification Information:**

FLAMMABLE!

POTENTIAL HEALTH EFFECTS:

EYE: Can cause eye irritation. Symptoms include stinging, tearing, redness and swelling of the eyes.

SKIN: May cause mild skin irritation in sensitive people. Prolonged contact may dry the skin.

INGESTION: Ingesting this material may be harmful.

INHALATION: Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Use with adequate ventilation.

SYMPTOMS OF EXPOSURE: Ingestion or inhalation: irregular heartbeat, cyanosis, anesthesia, stomach or intestinal upset (nausea, vomiting, diarrhea); irritation (the nose, throat, airways); cough, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness); slowing of breathing rate, blurred vision.

TARGET ORGANS: This product contains ethanol. Alcoholic beverage consumption has been associated with brain damage, heart damage, and pancreatitis in humans. Exposure to lethal concentrations has shown to cause damage to organs including liver, kidneys, pancreas, heart, lungs and brain. Although this rarely occurs, survivors of severe intoxication may suffer permanent neurological damage.

CARCINOGENICITY: This product contains ethanol. IARC has determined that exposure to ethanol through chronic human consumption of alcoholic beverages can cause cancer. The relevance of this finding to ethanol exposure in industrial environments is uncertain.

# MSDS - Material Safety Data Sheet

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### IV. First Aid Measures:

#### Route(s) of Entry:

Inhalation, ingestion, skin, eyes

#### Health Hazards (Acute and Chronic):

Chronic: Dermatitis

#### Signs and Symptoms:

Inhalation: Headache, irritation of the throat, lungs and airways.

Ingestion: Excitement, headache, dizziness, drowsiness, nausea, collapse, unconsciousness, coma, death due to respiratory failure

#### Medical Conditions Generally Aggravated by Exposure:

Skin, lung, eye, central nervous system, kidney, liver diseases

#### Emergency and First Aid Procedures:

Inhalation: Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen (To be administered by qualified medical personnel only!) Get medical attention.

Ingestion: If victim is conscious and alert, give 2-4 cups of milk or water. (Never give anything by mouth to an unconscious person!) Induce vomiting. Get medical attention immediately.

Skin: Flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing. Seek medical attention if condition warrants.

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Do not allow victim to rub or keep eyes closed. Get medical aid immediately.

Notes to physician: Effects may be delayed. Ethanol may inhibit metabolism.

#### Other Health Warnings:

### V. Fire Fighting Measures:

Flash Point: 55 F

Lower Explosive Limit: 3.3 vol%

Upper Explosive Limit: 28.00 vol%

#### F.P. Method:

Fire Extinguishing Media: Dry chemical, carbon dioxide, water spray, alcohol-resistant foam

#### Special Fire Fighting Procedures:

Wear self-contained breathing apparatus and protective clothing. Water may be ineffective, but may be used to cool fire-exposed containers.

#### Unusual Fire and Explosion:

Containers may build up pressure when exposed to heat or fire. Vapors from this product may travel some distance from original point to an ignition source and flash back.

"Empty" containers may contain product residue and may be dangerous. Empty containers should be completely drained and bunged and then disposed of according to local, state, and federal regulations.

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### VI. Accidental Release Measures:

#### Steps to be Taken in Case Material is Released or Spilled:

Wear vapor respirator, safety goggles, and rubber gloves. Remove sources of ignition (i.e. open flames, sparks). Dike if necessary. Soak up with absorbent material (earth, sand, or vermiculite recommended; do not use flammable substances such as sawdust). Scoop up with a non-sparking tool. Ventilate and wash spill site after collection. Dispose according to local, state, and federal regulations.

### VII. Handling and Storage:

#### Precautions to be Taken:

Keep in closed container. Keep cool and dry. Avoid all ignition sources (heat, open flame, spark). Avoid incompatible materials. Use only in well-ventilated areas. Avoid contact with the eyes. Avoid inhalation and ingestion. Wash thoroughly after handling.

#### Other Precautions:

"Empty" containers may contain product residue and may be dangerous. Empty containers should be completely drained and banded and then disposed of according to local, state, and federal regulations.

### VIII. Exposure Controls/Personal Protection:

#### Ventilation Requirements:

Use only in well-ventilated areas.

#### Personal Protective Equipment:

Safety goggles, gloves (butyl rubber, PVC, neoprene), vapor respirator, protective clothing

### IX. Physical and Chemical Properties:

**Boiling Point:** 170.6 F

**Melting Point:** NA

**Evaporation Rate (Butyl Acetate = 1):** 1.7

**Vapor Pressure (mm Hg.):** 45

**Specific Gravity (H<sub>2</sub>O = 1):**

**Vapor Density (AIR = 1):** 1.1

**Solubility In Water:** Appreciable

**Appearance and Odor:** Pale yellow liquid; alcohol odor

**Other Information:**

### X. Stability and Reactivity:

#### Stability:

Stable at room temperature in closed containers under normal storage and handling conditions.

#### Incompatibility (Materials to Avoid):

Ignition sources (heat, open flame, spark), strong oxidizing agents.

#### Decomposition/By Products:

Oxides of carbon, various hydrocarbons.

#### Hazardous Polymerization:

Will not occur.

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### ***XI. Toxicological Information:***

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### ***XII. Ecological Information:***

No data.

### ***XIII. Disposal Considerations:***

Dispose of according to local, state, and federal regulations.

### ***XIV. Transport Information:***

Keep in closed container. Keep cool and dry. Avoid all ignition sources (heat, open flame, spark). Avoid incompatible materials. Avoid contact with skin and eyes. Avoid inhalation and ingestion. Wash thoroughly after handling.

IATA

Shipping name: Ethanol solution

Hazard class: 3

UN no.: 1170

Packing group: II

Flammable liquid!

### ***XV. Regulatory Information:***

Ethanol is listed on the TSCA inventory.

### ***XVI. Other Information:***

This Material Safety Data Sheet identifies ethyl alcohol as a component and gives considerable information concerning the adverse health and safety concerns associated with ethyl alcohol. Ethyl alcohol is flammable and can cause adverse health reactions if ingested. However, if reasonable safety precautions are followed and this product is used as intended--the marking of skin with a solution using ethyl alcohol as a solvent will not cause adverse health effect to the general population.

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The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.