

**MSDS - Material Safety Data Sheet****Product Name: Blood Print Solution****MSDS No.: BPD3****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:** 01/19/2011**Expiration Date:****Chemical State:**  Liquid  Gas  Solid**Chemical Type:**  Pure  Mixture

2	Health
4	Flammability
1	Reactivity
H	Pers. Protection

**II. Ingredients:** Trade Secret (N/D = Not Disclosed)

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z	313					
9004700	Collodion	5.60									
64175	Ethanol	79.20						1,000 ppm	1,000 ppm	57 F	
68476506	Petroleum ether	15.20						NE	NE	-17.78 C	

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

FLAMMABLE! May form explosive peroxides. May be fatal or cause blindness if ingested. May be absorbed through the skin. May cause respiratory and digestive tract irritation. Skin irritant. Severe eye irritant. Aspiration hazard. May cause central nervous system depression. May cause liver and kidney damage. May cause adverse reproductive and fetal effects based on animal testing.

This material is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

**IV. First Aid Measures:****Route(s) of Entry:**

Inhalation, ingestion, skin, eyes

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

Chronic: Dermatitis

**Signs and Symptoms:**

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Inhalation: Headache, dizziness, drowsiness, unconsciousness, coma

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

Skin: Redness, dryness, inflammation

Eyes: Burning, redness, tearing, inflammation

### Medical Conditions Generally Aggravated by Exposure:

Skin, eye, respiratory, kidney, liver, central nervous system 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: DO NOT induce vomiting. If victim is conscious and alert, give 2-4 cups of milk or water. (Never give anything by mouth to an unconscious person!) Aspiration hazard. Get medical attention immediately.

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

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.

### Other Health Warnings:

### V. Fire Fighting Measures:

Flash Point: <-17.78 C

Lower Explosive Limit: 1.1

Upper Explosive Limit: 5.9

F.P. Method:

Fire Extinguishing Media: Water, dry chemical, chemical or alcohol-resistant foam

### Special Fire Fighting Procedures:

Wear self-contained breathing apparatus and protective clothing. DO NOT use straight streams of water. This material is lighter than and insoluble in water. The fire could easily be spread in an area where the water can not be contained. Water may be ineffective, but may be used to cool fire-exposed containers. Cool containers with flooding quantities until well after fire is out.

### Unusual Fire and Explosion:

Containers may explode in heat of fire. May form explosive peroxides. Vapors from this product may travel some distance from original point to an ignition source and flash back. Vapors may be heavier than air. They may spread along the ground and collect in low or confined areas.

"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.

### 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). Soak up with inert absorbent material (dry sand, earth, or vermiculite recommended; do not use flammable substances such as sawdust). Use a spark-proof tool. A vapor-suppressing foam may be used to reduce vapors. Dispose according to local, state, and federal regulations.

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### VII. Handling and Storage:

#### Precautions to be Taken:

Keep in tightly closed container. Keep cool and dry. Avoid direct sunlight. Avoid all ignition sources (heat, open flame, spark). Avoid incompatible materials. Electrically bond and ground all containers and equipment before transfer or use of material. Use only in well-ventilated areas. Avoid contact with skin, eyes, and clothing. Avoid ingestion and inhalation. Wash thoroughly after handling.

#### Other Precautions:

Prevent build up of vapors to explosive concentrations.

"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.

### VIII. Exposure Controls/Personal Protection:

#### Ventilation Requirements:

Use only in well-ventilated areas.

#### Personal Protective Equipment:

Safety goggles, gloves, vapor respirator, protective clothing

### IX. Physical and Chemical Properties:

**Boiling Point:** 95 F

**Melting Point:** -90 C

**Evaporation Rate (Butyl Acetate = 1):** 10

**Vapor Pressure (mm Hg.):** 40

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

**Vapor Density (AIR = 1):** 2.6

**Solubility In Water:** Partially soluble

**Appearance and Odor:** Clear liquid; kerosene odor

#### Other Information:

### X. Stability and Reactivity:

#### Stability:

Stable under normal temperatures and pressures. May be sensitive to peroxide formation.

#### Incompatibility (Materials to Avoid):

Acids; azo, diazo, and hydrazines; isocyanates; metals; nitrides; peroxides; hydroperoxides; epoxides; oxidizing agents; reducing agents; water reactive substances; ignition sources (heat, open flame, spark); nitrogen tetroxide; light; air; bromoazide; chlorine; chlorine trifluoride; chromic anhydride; chromyl chloride; lithium aluminum hydride; nitrates; perchlorates; ozone; permanganates; triethyl or trimethyl aluminum

#### Decomposition/By Products:

Carbon monoxide and dioxide, peroxides, nitrogen oxides

#### Hazardous Polymerization:

Has not been reported.

### XI. Toxicological Information:

May be fatal or cause blindness if ingested. May be absorbed through the skin. May cause central nervous system depression. May cause liver and kidney damage. May cause adverse reproductive and fetal effects based on animal testing.

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### XII. Ecological Information:

Prevent from entering sewers or waterways. May be toxic to some aquatic life.

Petroleum ether is expected to cause some oxygen depletion in aquatic systems. It has a moderate potential to affect the germination and growth of some plants.

### XIII. Disposal Considerations:

Dispose according to local, state, and federal regulations.

Methanol

RCRA U-Series: waste no. U154 (Ignitable waste)  
This material is banned from land disposal according to RCRA.

Ethyl ether

RCRA U-Series: waste no. U117 (Ignitable waste)  
This material is banned from land disposal according to RCRA.

### XIV. Transport Information:

Keep in tightly closed container. Keep cool and dry. Avoid direct sunlight. Avoid all ignition sources (heat, open flame, spark). Avoid incompatible materials. Electrically bond and ground all containers and equipment before transfer or use of material. Avoid contact with skin, eyes, and clothing. Avoid ingestion and inhalation. Wash thoroughly after handling.

IATA

Shipping name: Flammable liquid (Petroleum ether/Ethyl Alcohol Solution)  
Hazard class: 3  
UN no.: 1993  
Packing group: II  
Flammable liquid!

### XV. Regulatory Information:

All ingredients are listed on the TSCA inventory.

Methanol and methyl isobutyl ketone are listed as hazardous air pollutants (HAPs) under the Clean Air Act.

This material is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

### XVI. Other Information:

Using this product under normal, properly instructed procedures should not be hazardous.

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.