

**MSDS - Material Safety Data Sheet****Product Name: Clue Spray**

MSDS No.: UVA-201

**I. Basic Information:****Manufacturer:** SIRCHIE FINGER PRINT LABORATORIES, INC.**Address:** 100 HUNTER PLACE**City, ST Zip:** YOUNGSVILLE, NC 27596**Emergency Contact:** Chemtrec**Emergency Telephone Number:** 800-424-9300**Contact:** DON PENVEN**Information Telephone Number:** 919-554-2244**Last Update:** 03/26/2002**Chemical State:**  Liquid  Gas  Solid**Chemical Type:**  Pure  Mixture

1	Health
4	Flammability
0	Reactivity
B	Pers. Protection

**II. Ingredients:** Trade Secret

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z	313					
79016	Ethylene trichloride	50-55			X		X		100ppm	50ppm	
68476-85-7	Liquified Petroleum Gas	45-50							1000ppm	1000ppm	
68611701	Zinc sulfide (green)								NE	1 mg/m3	

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

If this product is used as indicated it is unlikely that any adverse health issues will occur. Inhalation or ingestion of significant amounts may cause respiratory irritation and/or gastric disturbances.

Contents extremely flammable and under pressure. Avoid contact with skin and eyes. Vapor harmful. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

CARCINOGEN DATA: None of the ingredients in this product are listed with OSHA, IARC or NTP as being carcinogenic. Ethylene Trichloride is listed by IARC in Group 3 (not classifiable) and rated by ACGIH as Class A5, not suspected as a human carcinogen.

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

Inhalation, ingestion, skin, eyes

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

Acute: Ingestion of significant amounts may cause gastric disturbances.

**Signs and Symptoms:****Medical Conditions Generally Aggravated by Exposure:**

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### Emergency and First Aid Procedures:

Inhalation: It is unlikely that emergency treatment will be required. Remove from exposure. Get medical treatment if needed.

Ingestion: Seek medical advice.

Skin Contact: It is unlikely that emergency treatment will be required. If adverse effects occur, wash with soap or mild detergent and large amounts of water. Seek medical attention, if needed.

Eye contact: Wash with large amounts of water or normal saline until no evidence of chemical remains. Get medical attention if needed. exposure. Get medical treatment if needed.

Ingestion: Seek medical advice.

Skin Contact: It is unlikely that emergency treatment will be required. If adverse effects occur, wash with soap or mild detergent and large amounts of water. Seek medical attention, if needed.

Eye contact: Wash with large amounts of water or normal saline until no evidence of the chemical remains. Get medical attention if needed.

### Other Health Warnings:

### V. Fire Fighting Measures:

Flash Point: <0 F.

Lower Explosive Limit: NE

Upper Explosive Limit: NE

### F.P. Method:

**Fire Extinguishing Media:** For warehouse or storage conditions, use NFPA Class B extinguishers (CO<sub>2</sub>, dry chemical or universal aqueous film-forming foam).

### Special Fire Fighting Procedures:

Use water spray to cool fire exposed aerosol containers as containers can rupture violently from heat developed pressure.

### Unusual Fire and Explosion:

Contents under pressure. In addition, when liquid or vapor comes into contact with flames or red hot metal, products of combustion will be created. Firefighters should wear SCBA gear.

### VI. Accidental Release Measures:

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

**CONTAINMENT PROCEDURES:** Product is an aerosol, therefore spills are unlikely. In case of can rupture, released content should be contained as any other solvent spill.

**SPILL CLEANUP:** Spills from aerosol cans are unlikely and are generally of small volume. Large spills are not likely to occur. In case of actual can rupture, avoid breathing vapors and ventilate area well. Remove all sources of ignition and use non-sparking equipment. Soak up material with inert absorbent and place in safety containers for proper disposal.

**SPECIAL INSTRUCTIONS:** Aerosol products represent a limited hazard and will not spill unless ruptured. In case of rupture the contents are generally evacuated from the can rapidly. Area should be ventilated immediately and continuous ventilation provided until all fumes and vapors have been removed. Aerosol cans should never be incinerated or burned. See Section XIII for disposal considerations.

**REPORTING REQUIREMENTS:** Spills due to the rupture of a single aerosol can are generally below regulatory reporting requirements. However, if large spills somehow result, the reporting requirements of the EPA and other local, state and federal agencies should be observed.

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### VII. Handling and Storage:

#### Precautions to be Taken:

Avoid prolonged or repeated skin contact. Avoid breathing vapors. Store in an area below 120° F. Do not incinerate/burn containers. Assure can is in a secure place to prevent knocking over and accidental rupture. Always replace overcap when not in use. For storage of pallet quantities, compliance with ANSI/NFPA 30B is recommended.

#### Other Precautions:

"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:

General ventilation (typically 10 air changes per hour) should be used. Ventilation rates should match conditions. Local exhaust ventilation or an enclosed handling system may be needed to control air contamination below that of the lowest TLV/PEL rated ingredient from Section II.

#### Personal Protective Equipment:

Not required under normal circumstances.

### IX. Physical and Chemical Properties:

**Boiling Point:** <0° F.

**Melting Point:** NE

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

**Vapor Pressure (mm Hg.):** No Data

**Specific Gravity (H2O = 1):** 1.00000

**Vapor Density (AIR = 1):** >1.0

**Solubility In Water:** Negligible

**Appearance and Odor:** See below

#### Other Information:

UVA201: Clear green liquid with ethereal odor

### X. Stability and Reactivity:

#### Stability:

Stable

#### Incompatibility (Materials to Avoid):

Strong oxidizing materials.

#### Decomposition/By Products:

Oxides of carbon, HCl fumes, and possible trace amounts of phosgene.

#### Hazardous Polymerization:

Will not occur.

### XI. Toxicological Information:

Acute Oral: Ethylene Trichloride

Acute Inhalation: LPG, Ethylene Trichloride

Acute Dermal: No data

### XII. Ecological Information:

This product has not been tested for environmental effects.

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## **XIII. Disposal Considerations:**

An aerosol container that does not contain a significant amount of liquid would meet the definition of scrap metal (40 CFR 261.1(c)(6)), and would be exempt from RCRA regulation under 40 CFR 261.6(a)(iv) if it is to be recycled. If containers are not recycled they must be managed under all applicable RCRA and state regulations.

"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.

## **XIV. Transport Information:**

IATA

Shipping Name: Aerosol, flammable

Hazard Class: 2.1

UN No.: 1950

FLAMMABLE GAS!

## **XV. Regulatory Information:**

All ingredients in this product are on the TSCA inventory.

SARA TITLE III, Section 313: Ethylene Trichloride.

Clean Air Act: Ethylene trichloride appears on the List of Hazardous Air Pollutants (HAP-42 USC 7412, Title I, Part A, p112)

California Proposition 65: Ethylene Trichloride appears on the Proposition 65 list.

Canadian Workplace Hazardous Materials Information Systems (WHMIS): The following ingredients are listed: LPG, Ethylene Trichloride

## **XVI. Other Information:**

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.

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