

**MSDS - Material Safety Data Sheet****Product Name: Thin Layer Chromatography of Marijuana, Reagent #2**MSDS No.: **KRL108****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:** 01-31-2008**Expiration Date:****Chemical State:**  Liquid  Gas  Solid**Chemical Type:**  Pure  Mixture

2	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					
67663	Chloroform	>59	X				X	50 ppm	10 ppm	143 F	
68476506	Petroleum ether	40						NE	NE	-17.78 C	

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

Extremely flammable! Light sensitive. Harmful or fatal if swallowed. May be harmful if inhaled. May cause respiratory and digestive tract irritation. May cause skin and eye irritation. Aspiration hazard. May cause central nervous system depression. May cause cardiac disturbances. May cause adverse reproductive and fetal effects. May cause cancer based on animal studies.

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):**

Acute: Severe eye burns, chemical pneumonitis (if aspirated into lungs), cardiac sensitization and possible failure

Chronic: Dermatitis

**Signs and Symptoms:**

Inhalation: Headache, dizziness, drowsiness, unconsciousness, coma

Ingestion: Nausea, vomiting, diarrhea, excitement, headache, dizziness, drowsiness, collapse, unconsciousness, coma, possible death due to respiratory failure

Skin: Burning pain, itching, redness, dryness, inflammation

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### Medical Conditions Generally Aggravated by Exposure:

Skin, eye, respiratory, kidney, heart, central nervous system, liver, gastrointestinal system, excretory 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:

Toxicity may be increased by exposure to alcohol, steroids, and ketones.

## V. Fire Fighting Measures:

Flash Point: 0 F

Lower Explosive Limit: 1.1

Upper Explosive Limit: 5.9

F.P. Method:

Fire Extinguishing Media: Dry chemical, carbon dioxide, water spray or foam, regular foam

### Special Fire Fighting Procedures:

Wear self-contained breathing apparatus and protective clothing. DO NOT use straight streams of water. Water may be ineffective, but may be used to cool fire-exposed containers. Cool containers with flooding amounts of water until well after fire is out.

### Unusual Fire and Explosion:

Vapors may form explosive mixture with air. 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. This material is partially soluble in water, and may be spread by the use of water in an area where water can not be contained. Containers may explode when heated.

"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 or earth recommended; do not use flammable substances such as sawdust). Use a spark-proof tool. 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 direct sunlight. Avoid ignition sources (heat, open flame, spark). Avoid incompatible materials. Prevent build-up of vapors to explosive concentration. Use only in well-ventilated areas. Avoid contact with skin and 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 bunged and then disposed of according to local, state, and federal regulations.

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### 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:** 35-60 C

**Melting Point:** -63 C

**Evaporation Rate (Butyl Acetate = 1):** 11.6

**Vapor Pressure (mm Hg.):** 160

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

**Vapor Density (AIR = 1):** 4.12

**Solubility In Water:** Partial

**Appearance and 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):

Light, ignition sources (heat, open flame, spark), acetone, alkalies, aluminum, disilane, lithium, magnesium, nitrogen oxides, acids, phosphorus pentoxide, potassium, hydroxides, alcohols, potassium tert-butoxide, sodium, sodium methylate, sodium-potassium alloy, triisopropylphosphine, fluorine, strong oxidizers, acetic anhydride + sodium hydrogensulfate, acetyl bromide, ammonia, silver nitrate, dichloromethane, disulfuryl difluoride, magnesium perchlorate, silver, oxides, platinum, potassium, tetrachlorosilane, steroids, ketones, nitrogen tetroxide

#### Decomposition/By Products:

Hydrogen chloride, carbon monoxide and dioxide, chlorine, phosgene gas

#### Hazardous Polymerization:

Has not been reported.

### XI. Toxicological Information:

Harmful or fatal if swallowed. May be harmful if inhaled. May cause central nervous system depression. May cause cardiac disturbances. May cause adverse reproductive and fetal effects.

Carcinogenicity

Chloroform

ACGIH--A3: Animal carcinogen

California--Carcinogen

NIOSH--Occupational carcinogen

NTP--Suspect carcinogen

OSHA--Possible select carcinogen

IARC--Group 2B: Possibly carcinogenic to humans

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### XII. Ecological Information:

Prevent from entering sewers or waterways. May be toxic to some aquatic life. This chemical is expected to cause some oxygen depletion in aquatic systems. If released to land, most evaporates rapidly, while some leaches to groundwater.

### XIII. Disposal Considerations:

Dispose according to local, state, and federal regulations.

Chloroform

RCRA D-Series Maximum Concentration of Contaminants: Waste no. D022; Regulatory level = 6.0 mg/L

RCRA D-Series Chronic Toxicity Reference Level: 0.06 mg/L

RCRA U-Series: Waste no. U044

### XIV. Transport Information:

Keep in closed container. Keep cool and dry. Avoid direct sunlight. Avoid ignition sources (heat, open flame, spark). Avoid incompatible materials. Prevent build-up of vapors to explosive concentration. Avoid contact with skin and eyes. Avoid inhalation and ingestion. Wash thoroughly after handling.

IATA

Shipping name: Chemical kit

Hazard class: 9

UN no.: 3316

Packing group: II

Miscl.

### XV. Regulatory Information:

All ingredients are listed on the TSCA inventory.

Chloroform is listed as a hazardous air pollutant (HAP) under the Clean Air Act.

Chloroform is listed as a Hazardous Substance, Priority Pollutant, and Toxic Pollutant under the Clean Water Act.

California Proposition 65: This product contains chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm (chloroform).

Chloroform is listed on the EPA Extremely Hazardous Substances (EHS) list.

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.