# Thin Layer Chromotography of Marijuana, Mobile Reagent #2

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 01/05/2015 Supersedes:01/31/2011 Version:

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixture

Product name. : Thin Layer Chromotography of Marijuana, Mobile Reagent #2

Product code : KRL108

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation : Laboratory chemical

### 1.3. Details of the supplier of the safety data sheet

SIRCHIE Finger Print Laboratories
100 Hunter Place
27596 Youngsville, NC - USA
T 919-554-2244; 800-356-7311 - F 919-554-2266; 800-899-8181
http://www.sirchie.com

### 1.4. Emergency telephone number

Emergency number : 1.800.424.9300

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification (GHS-US)**

| | |
|---|---|
| Acute Tox. 4 (Oral) | H302 |
| Skin Irrit. 2 | H315 |
| Muta. 1B | H340 |
| Carc. 1B | H350 |
| STOT RE 2 | H373 |

### 2.2. Label elements

**GHS-US labeling**

Hazard pictograms (GHS-US) :

GHS07 GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H302 - Harmful if swallowed
H315 - Causes skin irritation
H340 - May cause genetic defects (dermal, inhalation, oral)
H350 - May cause cancer (dermal, inhalation, oral)
H373 - May cause damage to organs (kidneys, liver) through prolonged or repeated exposure (dermal, inhalation, oral)

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe fume, mist, spray, vapors.
P264 - Wash all exposed skin thoroughly after handling.
P270 - Do no eat, drink or smoke when using this product
P280 - Wear eye protection, protective gloves.
P301+P312 - If swallowed, call a doctor if you feel unwell.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P308+P313 - IF exposed or concerned: Get medical advice/attention
P314 - Get medical advice and attention if you feel unwell.
P321 - Specific treatment (see a physician on this label)
P330 - If swallowed, rinse mouth.
P332+P313 - If skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing
P405 - Store locked up
P501 - Dispose of contents/container to local/regional/national/international regulations.

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | Classification (GHS-US) |
|---|---|---|---|
| chloroform | (CAS No.)67-66-3 | <= 59 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Carc. 2, H351<br>STOT RE 2, H373 |
| Hydrocarbons, C>=5, C5-6-rich | (CAS No.)68476-50-6 | 40 | Muta. 1B, H340<br>Carc. 1B, H350<br>Asp. Tox. 1, H304 |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Reactivity : No data available.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products : Strong bases. strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| chloroform (67-66-3) | | |
|---|---|---|
| USA ACGIH | ACGIH TWA (ppm) | 10 ppm |

### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure. Gas mask. Gloves. Safety glasses.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Wear approved mask.

Other information : When using, do not eat, drink or smoke.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear, colorless liquid.

Color : Colorless.

Odor : chloroform-like.

Odor threshold : No data available

pH : No data available

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Self ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapor pressure : No data available

Relative vapor density at 20 °C : No data available

Relative density : No data available

Solubility : No data available

Log Pow : No data available

Log Kow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Explosive limits : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

| chloroform (67-66-3) | |
|---|---|
| LD50 oral rat | 695 mg/kg (908 mg/kg bodyweight; 1117 mg/kg bodyweight; Rat; Rat; Rat; Experimental value; Experimental value,908 mg/kg bodyweight; 1117 mg/kg bodyweight; Rat; Rat; Rat; Experimental value; Experimental value) |
| LD50 dermal rabbit | > 20000 mg/kg (>3980 mg/kg bodyweight; Rabbit; Rabbit; Experimental value,>3980 mg/kg bodyweight; Rabbit; Rabbit; Experimental value) |
| LC50 inhalation rat (mg/l) | 48 mg/l/4h (Rat) |

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : May cause genetic defects (dermal, inhalation, oral).Based on available data, the classification criteria are not met

Carcinogenicity : May cause cancer (dermal, inhalation, oral).

| chloroform (67-66-3) | |
|---|---|
| IARC group | 2B |

Reproductive toxicity : Not classifiedBased on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : May cause damage to organs (kidneys, liver) through prolonged or repeated exposure (dermal, inhalation, oral).Based on available data, the classification criteria are not met

Aspiration hazard : Not classifiedBased on available data, the classification criteria are not met

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

| chloroform (67-66-3) | |
|---|---|
| LC50 fish 1 | 18.2 ppm (96 h; Oncorhynchus mykiss) |
| EC50 Daphnia 1 | 6.3 mg/l (504 h; Daphnia magna; REPRODUCTION) |
| LC50 fish 2 | 43.8 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss) |
| Threshold limit algae 1 | 185 mg/l (Microcystis aeruginosa; TOXICITY TEST) |
| Threshold limit algae 2 | 1100 mg/l (Scenedesmus quadricauda; TOXICITY TEST) |

### 12.2. Persistence and degradability

| Thin Layer Chromotography of Marijuana, Mobile Reagent #2 | |
|---|---|
| Persistence and degradability | Not established. |

| chloroform (67-66-3) | |
|---|---|
| Persistence and degradability | Not readily biodegradable in water. Non degradable in the soil. |
| ThOD | 0.33 - 1.35 g $O^2$/g substance |
| BOD (% of ThOD) | 1.5 - 6 % ThOD |

### 12.3. Bioaccumulative potential

| Thin Layer Chromotography of Marijuana, Mobile Reagent #2 | |
|---|---|
| Bioaccumulative potential | Not established. |

| chloroform (67-66-3) | |
|---|---|
| BCF fish 1 | 6 (336 h; Lepomis macrochirus) |
| BCF fish 2 | 1.4 - 4.7 (42 days; Cyprinus carpio) |
| BCF other aquatic organisms 1 | 224 (Pecten maximus; MANTLE,DRY WT.) |
| BCF other aquatic organisms 2 | 438 (Modiolus modiolus; MANTLE,DRY WT.) |
| Log Pow | 1.97 (Experimental value; 20 °C,Experimental value; 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

### 12.4. Mobility in soil

| chloroform (67-66-3) | |
|---|---|
| Surface tension | 0.0271 N/m (20 °C) |
| Ecology - soil | May be harmful to plant growth, blooming and fruit formation. |

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

UN-No.(DOT) : 3316

### 14.2. UN proper shipping name

DOT Proper Shipping Name : Chemical kit

Department of Transportation (DOT) Hazard Classes : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Hazard labels (DOT) : 9 - Miscellaneous dangerous compounds


Packing group (DOT) : II - Medium Danger

### 14.3. Additional information

Other information : No supplementary information available.

**Overland transport**

No additional information available

**Transport by sea**

No additional information available

**Air transport**

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

| Thin Layer Chromotography of Marijuana, Mobile Reagent #2 |
|---|
| Listed on SARA Section 313 (Specific toxic chemical listings)<br>Listed on the United States TSCA (Toxic Substances Control Act) inventory |

### 15.2. International regulations

**CANADA**

| Thin Layer Chromotography of Marijuana, Mobile Reagent #2 |
|---|
| Listed on the Canadian DSL (Domestic Substances List) inventory. |

### EU-Regulations

| Thin Layer Chromotography of Marijuana, Mobile Reagent #2 |
|---|
| Listed on European List of Notified Chemical Substances (ELINCS)<br>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances. |

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

### 15.2.2. National regulations

| Thin Layer Chromotography of Marijuana, Mobile Reagent #2 |
|---|
| Listed as carcinogen on NTP (National Toxicology Program)<br>Listed on IARC (International Agency for Research on Cancer) |

### 15.3. US State regulations

| Thin Layer Chromotography of Marijuana, Mobile Reagent #2() | |
|---|---|
| U.S. - California - Proposition 65 - Carcinogens List | Yes |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | Yes |

## SECTION 16: Other information

Indication of changes : Revision - See : *.

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging. The hazard of asphyxiation is often overlooked and must be stressed during operator training. Users of breathing apparatus must be trained.

Other information : None.

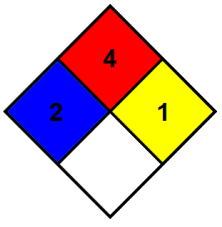
Full text of H-phrases: see section 16:

| | |
|---|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Asp. Tox. 1 | Aspiration hazard Category 1 |
| Carc. 1B | Carcinogenicity Category 1B |
| Carc. 2 | Carcinogenicity Category 2 |
| Muta. 1B | Germ cell mutagenicity Category 1B |
| Skin Irrit. 2 | skin corrosion/irritation Category 2 |
| STOT RE 2 | Specific target organ toxicity (repeated exposure) Category 2 |
| H302 | Harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation |
| H340 | May cause genetic defects |
| H350 | May cause cancer |
| H351 | Suspected of causing cancer |
| H373 | May cause damage to organs through prolonged or repeated exposure |

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard : 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn readily.

NFPA reactivity : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.




### HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

| | |
|---|---|
| Flammability | : 4 Severe Hazard |
| Physical | : 1 Slight Hazard |
| Personal Protection | : H |

SDS US (GHS HazCom 2012)

*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.*