MSDS - Material Safety Data Sheet

Product Name: Duquenois-Levine Reagent for Marijuana (Ampoule 3)

MSDS No.: NARK2005C

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: Tech Support
Information Telephone Number: 919-554-2244

Last Update: 12-5-2007
Expiration Date:

Chemical State: [X] Liquid  [ ] Gas  [ ] Solid
Chemical Type: [ ] Pure  [X] Mixture

II. Ingredients:

[ ] Trade Secret

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Chemical Name</th>
<th>% Range</th>
<th>EHS</th>
<th>IARC</th>
<th>SARA 313</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>67663</td>
<td>Chloroform</td>
<td>&gt;99</td>
<td></td>
<td></td>
<td></td>
<td>50 ppm</td>
<td>10 ppm</td>
<td>143 F</td>
</tr>
</tbody>
</table>

III. Hazardous Identification:

Hazard Category:

[X] Acute  [X] Chronic  [ ] Fire  [ ] Pressure  [ ] Reactive

Hazardous Identification Information:
Light sensitive. Harmful or fatal if swallowed. 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, unconsciousness, coma
Ingestion: Nausea, vomiting, diarrhea
Skin: Burning pain, itching, redness

Medical Conditions Generally Aggravated by Exposure:
Skin, eye, respiratory, kidney, heart, central nervous system, liver, gastrointestinal system, excretory system diseases
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**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!) 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.

**Notes to physician:** Causes cardiac sensitization to endogenous catecholamines which may lead to cardiac arrhythmias. DO NOT use adrenergic agents such as epinephrine or pseudoephedrine.

**Other Health Warnings:**

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

**V. Fire Fighting Measures:**

<table>
<thead>
<tr>
<th>Flash Point</th>
<th>Lower Explosive Limit</th>
<th>Upper Explosive Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
</tbody>
</table>

**F.P. Method:**

**Fire Extinguishing Media:** Water spray, dry chemical, foam

**Special Fire Fighting Procedures:**

- Wear self-contained breathing apparatus and protective clothing.

**Unusual Fire and Explosion:**

**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). Dispose according to local, state, and federal regulations.

**VII. Handling and Storage:**

**Precautions to be Taken:**


**Other Precautions:**

**VIII. Exposure Controls/Personal Protection:**

**Ventilation Requirements:**

- Use only in well-ventilated areas.

**Personal Protective Equipment:**
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Safety goggles, gloves, vapor respirator, protective clothing

IX. Physical and Chemical Properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>61°C</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate = 1)</td>
<td>11.6</td>
</tr>
<tr>
<td>Specific Gravity (H2O = 1)</td>
<td></td>
</tr>
<tr>
<td>Melting Point</td>
<td>-63°C</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg.)</td>
<td>160</td>
</tr>
<tr>
<td>Vapor Density (AIR = 1)</td>
<td>4.12</td>
</tr>
<tr>
<td>Solubility In Water</td>
<td>8 g/L</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td></td>
</tr>
<tr>
<td>Other Information</td>
<td></td>
</tr>
</tbody>
</table>

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, trisopropylphosphine, fluorine, strong oxidizers, acetic anhydride + sodium hydrosulfate, acetyl bromide, ammonia, silver nitrate, dichloromethane, disulfuryl difluoride, magnesium perchlorate, silver, oxides, platinum, potassium, tetrachlorosilane, steroids, ketones

Decomposition/By Products:
Hydrogen chloride, carbon dioxide, chlorine, phosgene gas

Hazardous Polymerization:
Has not been reported.

XI. Toxicological Information:

Harmful or fatal if swallowed. 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

XII. Ecological Information:

Prevent from entering sewers or waterways. May be toxic to some aquatic life. If released to land, most evaporates rapidly, while some leaches to groundwater.

XIII. Disposal Considerations:
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Dispose according to local, state, and federal regulations.

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:**


**IATA**
Shipping name: Chemical kit
Hazard class: 9
UN no.: 3316
Packing group: II

**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.