

**MSDS - Material Safety Data Sheet****Product Name: Silver Nitrate Remover**

MSDS No.: DCA6

**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: 01/26/2011

Expiration Date:

Chemical State:  Liquid  Gas  SolidChemical Type:  Pure  Mixture

3	Health
4	Flammability
1	Reactivity
H	Pers. Protection

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

CAS No.	Chemical Name	% Range	EHS		IARC		SARA 313		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z						
7487947	Mercury (II) chloride	10.2							NE	0.1 mg/m3	277 C
67561	Methanol	63.9					X		200 ppm	200 ppm	53.6 F
7732185	Water (Distilled)	25.5							None	None	212 F

**III. Hazardous Identification:**

Hazard Category:

 Acute Chronic Fire Pressure Reactive**Hazardous Identification Information:**

FLAMMABLE! May be fatal inhaled, ingested, or absorbed through skin. May cause respiratory and digestive tract irritation. Skin and eye irritant. May cause central nervous system depression. May cause liver and kidney damage. May cause adverse reproductive and fetal effects based on animal testing. May cause nervous system disturbances.

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:**

Exposure: Burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting

Inhalation: Headache, convulsions, death

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

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### Medical Conditions Generally Aggravated by Exposure:

Skin, lung, kidney, liver, central nervous system, eye, gastrointestinal 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: If victim is conscious and alert, give 2-4 cups of milk or water. (Never give anything by mouth to an unconscious person!) Induce vomiting. Get medical attention immediately.

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

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: Effects may be delayed. Ethanol may inhibit metabolism.

### Other Health Warnings:

## V. Fire Fighting Measures:

Flash Point: 53.6 F

Lower Explosive Limit: 6.00 vol%

Upper Explosive Limit: 31.00 vol%

### F.P. Method:

Fire Extinguishing Media: Carbon dioxide, dry chemical powder, water spray, alcohol-resistant foam

### Special Fire Fighting Procedures:

Wear self-contained breathing apparatus and protective clothing. Water may be ineffective, but may be used to cool fire-exposed containers.

### Unusual Fire and Explosion:

Containers can build up pressure if exposed to heat and/or fire. Vapors from this product may travel some distance from original point to an ignition source and flash back.

"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 absorbent material (earth, sand, or vermiculite recommended; do not use flammable substances such as sawdust). Scoop up with non-sparking tool. Ventilate and wash spill site after material pick-up is complete. Dispose according to local, state, and federal regulations.

## VII. Handling and Storage:

### Precautions to be Taken:

Keep in tightly closed container. Keep cool and dry. Protect from light. Avoid all ignition sources (heat, open flame, spark). Avoid incompatible materials. Use only in well-ventilated areas. Avoid contact with skin, eyes, and clothing. Avoid inhalation and ingestion. Avoid prolonged or repeated exposure. 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:** 64.7 C

**Melting Point:** -98 C

**Evaporation Rate (Butyl Acetate = 1):** 5.2

**Vapor Pressure (mm Hg.):** 96

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

**Vapor Density (AIR = 1):** 1.1

**Solubility In Water:** Miscible

**Appearance and Odor:** Clear, odorless liquid

#### Other Information:

### X. Stability and Reactivity:

#### Stability:

Stable at room temperature in closed containers under normal storage and handling conditions.

#### Incompatibility (Materials to Avoid):

Oxidants, active metals, acetyl bromide, alkyl aluminum salts, beryllium dihydride, carbon tetrachloride + metals, chloroform + heat, chloroform + sodium hydroxide, cyanuric chloride, diethyl zinc, potassium tertbutoxide, strong oxidizing agents, strong acids & bases, light, moisture, lead and silver salts, potassium chlorate, bromine trifluoride and pentafluoride, ignition sources (heat, open flame, spark)

#### Decomposition/By Products:

Carbon monoxide & dioxide, formaldehyde (carcinogen), hydrogen chloride gas, mercury/mercury oxides, ammonia

#### Hazardous Polymerization:

Does not occur.

### XI. Toxicological Information:

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

### XII. Ecological Information:

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

### XIII. Disposal Considerations:

Dispose according to local, state, and federal regulations.

Methanol

RCRA U-Series: waste no. U154

This material is banned from land disposal according to RCRA.

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## ***XIV. Transport Information:***

Keep in tightly closed container. Keep cool and dry. Protect from light. Avoid all ignition sources (heat, open flame, spark). Avoid incompatible materials. Avoid contact with skin, eyes, and clothing. Avoid inhalation and ingestion. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

IATA

Shipping name: Methanol

Hazard class: 3

Hazard sub-class: 6.1

UN no.: 1230

Packing group: II

Flammable liquid!

Toxic!

## ***XV. Regulatory Information:***

Methanol and mercury (II) chloride are listed on the TSCA inventory.

Mercury (II) chloride 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.