

**MSDS - Material Safety Data Sheet****Product Name: Dille-Koppanyi Reagent for Barbiturates (Ampoule 1)**

EVIDENT, INC.  
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MSDS No.: NARK2003A

**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: 01/31/2011

Expiration Date:

Chemical State:  Liquid  Gas  SolidChemical Type:  Pure  Mixture

2	Health
4	Flammability
1	Reactivity
H	Pers. Protection

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

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB	Z	313				
75310	Isopropylamine	5.00							5 ppm	5 ppm	-34.6 F
67561	Methanol	95.00					X		200 ppm	200 ppm	53.6 F

**III. Hazardous Identification:**

Hazard Category:

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

FLAMMABLE! May be fatal or cause blindness if ingested. Harmful if inhaled. May be absorbed through the 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.

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:

Inhalation: Headache, convulsions, death

Ingestion: Excitement, headache, dizziness, drowsiness, nausea, severe pain, vomiting, diarrhea, shock, collapse, unconsciousness, coma, death due to respiratory failure

Medical Conditions Generally Aggravated by Exposure:

Pulmonary, eye, skin, liver, kidney diseases

# MSDS - Material Safety Data Sheet

## Product Name: *Dille-Koppanyi Reagent for Barbiturates (Ampoule 1)*

MSDS No.: NARK2003A

### 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!) Get medical attention immediately. Induce vomiting by giving one teaspoon (1 tsp.) of Syrup of Ipecac.

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

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: Dry chemical, carbon dioxide, 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, rubber gloves, and disposable coveralls (discard coveralls after use). Remove sources of ignition (i.e. open flames, sparks). Soak up with inert absorbent material (dry soda ash, calcium carbonate, earth, sand, or vermiculite recommended; do not use flammable substances such as sawdust). Scoop up with a non-sparking tool. Ventilate and wash spill site after collection. 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. Prevent from freezing. Avoid all ignition sources (heat, open flame, spark). Avoid incompatible materials. Use only in well-ventilated areas. Do not ingest or inhale. Avoid contact with skin, eyes, and clothing. 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.

# MSDS - Material Safety Data Sheet

## Product Name: Dille-Koppanyi Reagent for Barbiturates (Ampoule 1)

MSDS No.: NARK2003A

### 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 (H2O = 1):**

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

**Solubility In Water:** Miscible\*

**Appearance and Odor:** Pink crystal; vinegar odor

**Other Information:** \* Info for methanol.

### 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, acids, potassium tertbutoxide, acetaldehyde, 2-aminoethanol, ammonium nitrate, bromine pentafluoride, chlorine trifluoride, chromic anhydride + acetic anhydride, diallyl methyl carbinol + ozone, ethylene diamine, ethyleneimine, peroxides, nitric acid + acetone, oleum, permanganates, phosphorus isocyanate, phosphorus trichloride, hydroxides, xylene, moisture, ignition sources (heat, open flame, spark). See the NFPA Fire Protection Guide for all methanol incompatibility specifics.

#### Decomposition/By Products:

Carbon monoxide, carbon dioxide, formaldehyde (carcinogen), cobalt, cobalt oxides

#### Hazardous Polymerization:

Does not occur.

### XI. Toxicological Information:

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

### 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: U154 (Ignitable waste)

This material is banned from land disposal according to RCRA.

# *MSDS - Material Safety Data Sheet*

***Product Name: Dille-Koppanyi Reagent for Barbiturates (Ampoule 1)***

***MSDS No.: NARK2003A***

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

Keep in tightly closed container. Keep cool and dry. Prevent from freezing. Avoid all ignition sources (heat, open flame, spark). Avoid incompatible materials. Do not ingest or inhale. Avoid contact with skin, eyes, and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

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.

Methanol is listed as a Hazardous Air Pollutant (HAP) under the Clean Air Act.

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.

**MSDS - Material Safety Data Sheet****Product Name: Dille-Koppanyi Reagent for Barbiturates (Ampoule 2)**

MSDS No.: NARK2003B

**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: 01/31/2011

Expiration Date:

Chemical State:  Liquid  Gas  SolidChemical Type:  Pure  Mixture

2	Health
4	Flammability
2	Reactivity
H	Pers. Protection

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

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z	313					
67561	Methanol	99.70					X	200 ppm	200 ppm	53.6 F	

**III. Hazardous Identification:**

Hazard Category:

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

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

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:**

Inhalation: Headache, dizziness, convulsions, unconsciousness, coma

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

**Medical Conditions Generally Aggravated by Exposure:**

Pulmonary, eye, skin, liver, kidney diseases

# MSDS - Material Safety Data Sheet

## Product Name: *Dille-Koppanyi Reagent for Barbiturates (Ampoule 2)*

MSDS No.: NARK2003B

### 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!) Get medical attention immediately. Induce vomiting by giving one teaspoon (1 tsp.) of Syrup of Ipecac.

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

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: -34.6 F

Lower Explosive Limit: 2.0

Upper Explosive Limit: 10.4

### F.P. Method:

Fire Extinguishing Media: Dry chemical, carbon dioxide, water spray or fog, 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. Cool containers with flooding amounts of water until well after fire is out. DO NOT get water inside containers. DO NOT use straight streams of water.

### 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. May polymerize explosively when involved in a fire.

"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 (earth, sand, or vermiculite recommended; do not use flammable substances such as sawdust). Scoop up with a non-sparking tool. Do not get water inside containers. Ventilate spill site after collection. 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. Refrigerate if possible. Avoid all ignition sources (heat, open flame, spark). Avoid incompatible materials. Electrically bond and ground all containers and equipment before transfer or use of material. Use only in well-ventilated areas. Avoid contact with skin, eyes, and clothing. Do not ingest or inhale. 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.

# MSDS - Material Safety Data Sheet

## Product Name: Dille-Koppanyi Reagent for Barbiturates (Ampoule 2)

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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:** 33 C\*

**Melting Point:** -83 C\*

**Evaporation Rate (Butyl Acetate = 1):** 36.60\*

**Vapor Pressure (mm Hg.):** 478.0\*

**Specific Gravity (H20 = 1):**

**Vapor Density (AIR = 1):** 2.0\*

**Solubility In Water:** Soluble\*

**Appearance and Odor:** Colorless liquid; ammonia odor

**Other Information:** \* Info for isopropylamine

### 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, acids, potassium tertbutoxide, ignition sources (heat, open flame, spark), mechanical shock. See the NFPA Fire Protection Guide for all methanol incompatibility specifics.

#### Decomposition/By Products:

Carbon monoxide, carbon dioxide, formaldehyde (carcinogen), nitrogen oxides, nitrogen

#### Hazardous Polymerization:

May occur.

### XI. Toxicological Information:

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

### 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: U154 (Ignitable waste)

This material is banned from land disposal according to RCRA.

# MSDS - Material Safety Data Sheet

**Product Name: Dille-Koppanyi Reagent for Barbiturates (Ampoule 2)**

MSDS No.: NARK2003B

## **XIV. Transport Information:**

Keep in tightly closed container. Keep cool and dry. Refrigerate if possible. Avoid all ignition sources (heat, open flame, spark). Avoid incompatible materials. Electrically bond and ground all containers and equipment before transfer or use of material. Avoid contact with skin, eyes, and clothing. Do not ingest or inhale. Wash thoroughly after handling.

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.

Methanol is listed as a Hazardous Air Pollutant (HAP) under the Clean Air Act.

Isopropylamine is considered highly hazardous by OSHA.

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.