

MSDS - Material Safety Data Sheet**Product Name: Ephedrine Reagent (Ampoule 1)**

EVIDENT, INC.
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MSDS No.: NARK20013A

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

1	Health
2	Flammability
1	Reactivity
H	Pers. Protection

II. Ingredients: Trade Secret

CAS No.	Chemical Name	% Range	EHS		IARC		SARA 313		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z						
64197	Acetic acid	1							10 ppm	10 ppm	103 F
7758987	Copper (II) sulfate	1							NE	NE	200 C
7732185	Water (Distilled)	98							None	None	212 F

III. Hazardous Identification:

Hazard Category:

 Acute Chronic Fire Pressure Reactive
Hazardous Identification Information:

May be harmful if inhaled or swallowed. May cause respiratory and digestive tract irritation. May cause skin irritation. Severe eye irritant.

The chemical, physical, and toxicological properties of copper (II) sulfate have not been thoroughly investigated.

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: Gastrointestinal disturbances

Chronic: Dermatitis, chronic bronchitis, erosion of teeth

Signs and Symptoms:

Ingestion: Pain, nausea, vomiting, diarrhea, shock

Medical Conditions Generally Aggravated by Exposure:

Skin, respiratory, eye, liver, kidney 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.

Other Health Warnings:

V. Fire Fighting Measures:

Flash Point: ~103 F

Lower Explosive Limit: NE

Upper Explosive Limit: NE

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 used to cool fire-exposed containers.

Unusual Fire and Explosion:

May react with metals to form combustible hydrogen gas.

"Empty" containers may contain product residue and may be dangerous. Empty containers should be completely drained and banded 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 soda ash or calcium carbonate recommended; do not use flammable substances such as sawdust). Ventilate and wash spill site with soap and water after collection. Dispose according to local, state, and federal regulations.

VII. Handling and Storage:

Precautions to be Taken:

Keep in tightly closed container. Protect from freezing. Keep cool and dry. Avoid 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 banded and then disposed of according to local, state, and federal regulations.

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

Use only in well-ventilated areas.

Personal Protective Equipment:

Safety goggles, gloves, vapor respirator, protective clothing

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IX. Physical and Chemical Properties:

Boiling Point: ~212 F

Melting Point: ~32 F

Evaporation Rate (Butyl Acetate = 1): NE

Vapor Pressure (mm Hg.): NE

Specific Gravity (H2O = 1):

Vapor Density (AIR = 1): NE

Solubility In Water: Soluble

Appearance and Odor: Clear liquid; slight vinegar 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):

Acetaldehyde, 2-aminoethanol, ammonium nitrate, bromine pentafluoride, chlorine trifluoride, acids, anhydrides, diallyl methyl carbinol + ozone, ethylene diamine, ethyleneimine, peroxides, acetone, oleum, permanganates, phosphorus isocyanate, phosphorus trichloride, hydroxides, potassium t-butoxide, xylene, metals, ignition sources (heat, open flame, spark), strong oxidants, acid chlorides, steel, finely powdered metals, hydroxylamine, magnesium. See NFPA Fire Protection guide for all acetic acid incompatibility specifics.

Decomposition/By Products:

Carbon monoxide and dioxide, combustible hydrogen gas, nitrogen oxides, nitrogen, sulfur oxides

Hazardous Polymerization:

Has not been reported.

XI. Toxicological Information:

The toxicological properties of copper (II) sulfate have not been thoroughly investigated.

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.

XIV. Transport Information:

Keep in tightly closed container. Protect from freezing. Keep cool and dry. Avoid 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: Chemical kit

Hazard class: 9

UN no.: 3316

Packing group: II

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Product Name: Ephedrine Reagent (Ampoule 1)

MSDS No.: NARK20013A

XV. Regulatory Information:

All ingredients are listed on the TSCA inventory.

Acetic acid is listed as a Hazardous Substance under the Clean Water 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: Ephedrine Reagent (Ampoule 2)**

MSDS No.: NARK20013B

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

1	Health
1	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				
1310732	Sodium hydroxide	8							2 mg/m3	2 mg/m3	1,390 C
7732185	Water (Distilled)	92							None	None	212 F

III. Hazardous Identification:

Hazard Category:

 Acute Chronic Fire Pressure Reactive
Hazardous Identification Information:

Harmful if swallowed. Respiratory and digestive tract irritant. Skin and eye irritant.

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: Possible skin and eye burns

Chronic: Dermatitis

Signs and Symptoms:

Inhalation: Coughing, possible burns, breathing difficulty

Ingestion: Pain, nausea, vomiting, diarrhea, shock

Medical Conditions Generally Aggravated by Exposure:

Skin, eye, respiratory diseases

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Product Name: Ephedrine Reagent (Ampoule 2)

MSDS No.: NARK20013B

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. Discard contaminated clothing in a manner which limits further exposure. 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:

V. Fire Fighting Measures:

Flash Point: NE

Lower Explosive Limit: NE

Upper Explosive Limit: NE

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.

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 (do not use flammable substances such as sawdust). 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 closed container. Keep cool and dry. Avoid incompatible materials. Use only in well-ventilated areas. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling.

Other Precautions:

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

Use only in well-ventilated areas.

Personal Protective Equipment:

Safety goggles, gloves, vapor respirator, protective clothing

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Product Name: Ephedrine Reagent (Ampoule 2)

MSDS No.: NARK20013B

IX. Physical and Chemical Properties:

Boiling Point: ~212 F

Melting Point: ~32 F

Evaporation Rate (Butyl Acetate = 1): NE

Vapor Pressure (mm Hg.): NE

Specific Gravity (H2O = 1):

Vapor Density (AIR = 1): NE

Solubility In Water: Soluble

Appearance and Odor: Odorless clear liquid

Other Information:

X. Stability and Reactivity:

Stability:

Stable

Incompatibility (Materials to Avoid):

Moisture, acids, carbon dioxide, cinnamaldehyde, zinc, chloroform + methane, metals, alloys, flammable liquids, organic halogens

Decomposition/By Products:

Sodium oxide & peroxide, flammable hydrogen gas

Hazardous Polymerization:

Has not been reported.

XI. Toxicological Information:

Harmful if swallowed. Respiratory and digestive tract irritant. Skin and eye irritant.

This material is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

XII. Ecological Information:

Prevent from entering sewers or waterways. May be toxic to some aquatic life. Once liquid, sodium hydroxide leaches rapidly into the soil, possibly contaminating water sources.

XIII. Disposal Considerations:

Dispose according to local, state, and federal regulations.

XIV. Transport Information:

Keep in closed container. Keep cool and dry. Avoid incompatible materials. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling.

IATA

Shipping name: Chemical kit

Hazard class: 9

UN no.: 3316

Packing group: II

XV. Regulatory Information:

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Product Name: Ephedrine Reagent (Ampoule 2)

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All ingredients are listed on the TSCA inventory.

Sodium hydroxide is listed as a Hazardous Substance under the Clean Water 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.