

MSDS - Material Safety Data Sheet**Product Name: Mayer's Reagent for Narcotic Alkaloids**

MSDS No.: NARK20019

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
1	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						
7487947	Mercury (II) chloride	1.36							NE	0.1 mg/m3	277 C
7681110	Potassium iodide	5							NE	NE	680 C
7732185	Water (Distilled)	93.64							None	None	212 F

III. Hazardous Identification:

Hazard Category:

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

May be fatal if swallowed. May be absorbed through the skin. May cause respiratory and digestive tract irritation. May cause skin and eye irritation. May cause iodism. May cause central nervous system effects. May cause cardiac effects. May cause kidney and liver damage. May cause adverse reproductive and fetal effects based on animal studies.

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

These chemicals, as used in our chemical field test reagents, are in diluted and minimal concentrations and should not be harmful to users who adhere to good chemical handling hygiene.

IV. First Aid Measures:**Route(s) of Entry:**

Inhalation, ingestion, skin, eyes

Health Hazards (Acute and Chronic):

Chronic: Iodism, dermatitis

Signs and Symptoms:

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Inhalation: Sore throat, coughing, shortness of breath, vertigo, anxiety, depression, muscle incoordination

Ingestion: Nausea, vomiting, diarrhea, muscle tremors, gum and mouth inflammation, loosening of the teeth

Iodism: Salivation, nasal discharge, sneezing, conjunctivitis, fever, laryngitis, bronchitis, stomatitis, skin rashes

Medical Conditions Generally Aggravated by Exposure:

Skin, eye, respiratory, kidneys, liver, cardiovascular system, central nervous system, gastrointestinal system 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!) 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.

Antidote for mercury (II) chloride: The use of Dimercaprol, BAL (British Anti-Lewisite), or d-Penicillamine as a chelating agent should be determined by qualified medical personnel.

Other Health Warnings:

V. Fire Fighting Measures:

Flash Point: NE

Lower Explosive Limit: NE

Upper Explosive Limit: NE

F.P. Method:

Fire Extinguishing Media: Water spray, dry chemical, carbon dioxide, chemical foam

Special Fire Fighting Procedures:

Wear self-contained breathing apparatus and protective clothing. Remove container from fire area if possible to do so without injury.

Unusual Fire and Explosion:

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 after use). Stop leak if possible to do so without risk. Dike area if necessary. Soak up with inert absorbent material (sand recommended; 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 tightly closed container. Keep cool and dry. Protect from light. Avoid incompatible materials. Use only in well-ventilated areas. Avoid contact with skin, eyes, and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

Other Precautions:

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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: ~212 F

Melting Point: ~32 F

Evaporation Rate (Butyl Acetate = 1): NE

Vapor Pressure (mm Hg.): 1

Specific Gravity (H2O = 1):

Vapor Density (AIR = 1): NE

Solubility In Water: Soluble

Appearance and Odor: Clear liquid; no odor

Other Information:

X. Stability and Reactivity:

Stability:

Stable under normal temperatures and pressures.

Incompatibility (Materials to Avoid):

Light, moisture, salts of alkaloids, chloral hydrate, calomel (mercurous chloride), potassium chlorate, metallic salts, acids, bromine trifluoride, fluorine perchlorate, strong oxidizing agents, strong bases, ignition sources (heat, open flame, spark), albumin, alkalies, ammonia, antimony, arsenic, borax, bromides, carbonates, formates, gelatin, hypophosphites, lead, lime water, metals, phosphates, potassium, sodium, sulfates, sulfides, vegetable astringents, organic matter

Decomposition/By Products:

Potassium oxides, iodine, hydrogen chloride gas, mercury, mercury oxides, fluoride

Hazardous Polymerization:

Has not been reported.

XI. Toxicological Information:

May be fatal if swallowed. May be absorbed through the skin. May cause iodism. May cause central nervous system effects. May cause cardiac effects. May cause kidney and liver damage. May cause adverse reproductive and fetal effects based on animal studies.

XII. Ecological Information:

Prevent from entering sewers or waterways. May be toxic to some aquatic life. Mercury can be accumulated from water by many organisms.

XIII. Disposal Considerations:

Dispose according to local, state, and federal regulations.

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XIV. Transport Information:

Keep in tightly closed container. Keep cool and dry. Protect from light. Avoid incompatible materials. Avoid contact with skin, eyes, and clothing. Avoid ingestion and inhalation. 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.

Mercury (II) chloride, listed as MERCURY COMPOUNDS, is listed as a hazardous air pollutant (HAP) under the Clean Air Act.

Mercury (II) chloride is listed as a Priority Pollutant and a Toxic Pollutant under the Clean Water Act.

California Proposition 65: This product contains chemical(s) known to the State of California to cause birth defects or other reproductive harm (mercury [II] chloride).

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.