

MSDS - Material Safety Data Sheet**Product Name: KAA Reagent**

MSDS No.: ENTCAA1

I. Basic Information:

Manufacturer: Sirchie Finger Print Laboratories

Address: 100 Hunter Place

City, ST Zip: Youngsville, NC 27596

Emergency Contact: ChemTrec

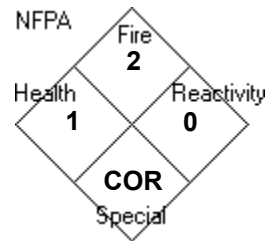
Emergency Telephone Number: 800-424-9300

Contact: Tech Support

Information Telephone Number: 919-554-2244

Last Update: 01/26/2011

Expiration Date:

Chemical State: Liquid Gas SolidChemical Type: Pure Mixture

1	Health
2	Flammability
0	Reactivity
G	Pers. Protection

II. Ingredients: Trade Secret

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z	313					
64175	Ethanol	70.0						1,000 ppm	1,000 ppm	57 F	
141786	Ethyl acetate	20.0						400 ppm	400 ppm	24 F	
8008206	Kerosene	10.0						100 ppm	100 ppm	100 F	

III. Hazardous Identification:

Hazard Category:

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

CONTENTS EXTREMELY FLAMMABLE. AVOID CONTACT WITH SKIN AND EYES. VAPOR HARMFUL. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

POTENTIAL HEALTH EFFECTS:

SKIN: Frequent or prolonged contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

EYE: Liquid or vapors may cause redness, burning, tearing, swelling and/or pain.

INGESTION: Should ingestion occur, it may cause irritation to membranes of the mouth, throat and gastrointestinal tract, resulting in vomiting and/or cramps. May cause euphoria, staggering gait, lack of coordination, and coma

INHALATION: Prolonged or repeated exposure is anesthetic. May cause irritation of the respiratory tract, or acute nervous system depression characterized by headache, dizziness, staggering gait, or confusion.

MEDICAL CONDITIONS AGGRAVATED: Skin contact may aggravate an existing dermatitis. Other conditions unknown. None of the reagents in this product are considered to be carcinogenic.

"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

IV. First Aid Measures:

Route(s) of Entry:

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INGESTION: Should ingestion occur, do not induce vomiting! Drink a glass of water or milk to dilute. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

EYE: Immediately flush with plenty of clear water for at least 15 minutes. Make sure to flush eyelids. Consult a physician for definitive treatment.

SKIN: Remove with soap and water. Continue flushing with water for several minutes. Use skin cream to counter resulting dryness. Consult a physician if irritation continues or if large area of skin is affected.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist or if unconscious.

Health Hazards (Acute and Chronic):

Acute: Toxic mixture (see above)

Signs and Symptoms:

Headache, dizziness, staggering gait, unconsciousness.

Medical Conditions Generally Aggravated by Exposure:

Dermatitis

Emergency and First Aid Procedures:

See "Route(s) of Entry above.

Other Health Warnings:

None of the substances in this product are classified as carcinogenic

V. Fire Fighting Measures:

Flash Point: 55 F

Lower Explosive Limit: No Data

Upper Explosive Limit: No Data

F.P. Method:

Fire Extinguishing Media: For warehouse and storage conditions, use NFPA Class B extinguishes (CO₂, dry chemical or universal aqueous film forming foam.)

Special Fire Fighting Procedures:

Use water spray to cool containers for containers can rupture violently from heat-developed pressure.

Unusual Fire and Explosion:

In addition, when liquid or vapor forms comes into contact with flames or red hot metal, products of combustion will be created. Firemen should wear self-contained breathing apparatus.

VI. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:

CONTAINMENT PROCEDURES: In case of spill, released content should be contained as any other solvent spill.

SPILL CLEANUP: Spills are generally of small volume. Large spills are therefore not normally a problem. In case of actual spill, avoid breathing vapors and ventilate area well. Remove all sources of ignition and use non-sparking equipment. Soak up material with inert absorbent and place in safety containers for proper disposal.

VII. Handling and Storage:

Precautions to be Taken:

Avoid prolonged or repeated skin contact. Avoid breathing vapors. Store at room temperature with other flammable materials.. Do Not incinerate (burn) containers. Assure container is in a secure place to prevent knocking over and accidental spillage. Always replace cap when not in use.

Other Precautions:

Store with other flammable chemicals.

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VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

ENGINEERING CONTROLS: General ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system may be needed to control air contamination below that of the lowest TLV/PEL rated ingredient from Section 2.

EXPOSURE GUIDELINE: Since this product is a mixture, an OSHA or ACGIH exposure value is not available. In determination of any exposure procedures, protection or testing, use the lowest rated ingredient in Section 2.

Personal Protective Equipment:

EYE PROTECTION: Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact could occur, chemical splash proof goggles are recommended.

SKIN PROTECTION: Wear latex or nitrile glove, laboratory apron.

Respiratory Protection: Atmospheric levels should be maintained below the exposure guideline. Where respiratory protection is required an appropriate NIOSH approved respirator for organic vapor should be worn. If respirators are needed, assure compliance with OSHA standard 29 CFR 1910.134

IX. Physical and Chemical Properties:

Boiling Point: 173F

Melting Point: < 0

Evaporation Rate (Butyl Acetate = 1): 2.0

Vapor Pressure (mm Hg.): No Data

Specific Gravity (H₂O = 1):

Vapor Density (AIR = 1): 1.6

Solubility In Water: 100%

Appearance and Odor: Clear Liquid, Solvent odor

Other Information:

X. Stability and Reactivity:

Stability:

Normally Stable

Incompatibility (Materials to Avoid):

Heat, sparks, flame, red hot metal, strong oxidizing materials.

Decomposition/By Products:

Oxides of Carbon

Hazardous Polymerization:

Will not occur

XI. Toxicological Information:

Material is toxic. ACUTE ORAL LD₅₀= 6.2 G/Kg

XII. Ecological Information:

This product has not been tested for environmental effects.

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XIII. Disposal Considerations:

Dispose of according to local, state, and federal regulations.

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XIV. Transport Information:

DOT HM-181 INFORMATION
PROPER SHIPPING NAME: Ethyl alcohol solution, Flammable
HAZARD CLASS: 3
UN no.: 1170
Packing group: II
Flammable Liquid

XV. Regulatory Information:

TOXIC SUBSTANCES CONTROL ACT: All of the ingredients in this product are on the TSCA inventory.

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.