

MSDS - Material Safety Data Sheet**Product Name: Trace Metal Reagent**

MSDS No.: TMDT01

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:** 02/02/2011**Expiration Date:****Chemical State:** Liquid Gas Solid**Chemical Type:** Pure Mixture

1	Health
4	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					
67630	Isopropyl alcohol	>99						400 ppm	400 ppm	53 F	

III. Hazardous Identification:**Hazard Category:**
 Acute
 Chronic
 Fire
 Pressure
 Reactive
Hazardous Identification Information:

Flammable. Respiratory and digestive tract irritant. Skin and eye irritant. Aspiration hazard. May cause central nervous system depression.

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: May cause bronchiopneumonia or pulmonary edema if aspirated into lungs.

Chronic: Dermatitis

Signs and Symptoms:

Inhalation: Headache, dizziness, unconsciousness, coma

Ingestion: Nausea, vomiting, diarrhea, excitement, headache, dizziness, drowsiness, collapse, unconsciousness, coma, death due to respiratory failure

Skin: Pain, stinging

Eyes: Burning sensation, redness, tearing, inflammation

Medical Conditions Generally Aggravated by Exposure:

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Skin, eye, respiratory, kidney, central nervous 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!) Keep victim at rest. Get medical attention.

Ingestion: DO NOT induce vomiting. Aspiration hazard. If victim is conscious and alert, give 2-4 cups of milk or water. (Never give anything by mouth to an unconscious person!) Keep victim at rest. Get medical attention immediately.

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

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: 53 F

Lower Explosive Limit: 2.0

Upper Explosive Limit: 12.7

F.P. Method:

Fire Extinguishing Media: Dry chemical, carbon dioxide, 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:

Explosion hazard--may form explosive peroxides. Containers may explode in the heat of 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. Prevent additional discharge of material, if possible to do so without risk. Remove sources of ignition (i.e. open flames, sparks). Soak up with inert absorbent material (sand or earth recommended; do not use flammable substances such as sawdust). Dispose according to local, state, and federal regulations.

VII. Handling and Storage:

Precautions to be Taken:

Keep in tightly closed container. Protect from direct sunlight. Keep cool and dry. 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. Avoid inhalation and ingestion. 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, rubber gloves, vapor respirator, protective clothing

IX. Physical and Chemical Properties:

Boiling Point: 180 F

Melting Point: -128 F

Evaporation Rate (Butyl Acetate = 1): 2.3

Vapor Pressure (mm Hg.): 36

Specific Gravity (H₂O = 1):

Vapor Density (AIR = 1): >1.00

Solubility In Water: 100.00 wt. %

Appearance and Odor: Clear liquid; alcohol odor

Other Information:

X. Stability and Reactivity:

Stability:

Stable. Moderate risk of peroxide formation.

Incompatibility (Materials to Avoid):

Caustics, amines, alkanolamines, aldehydes, strong oxidizing agents, chlorinated compounds, ignition sources (heat, open flame, spark)

Decomposition/By Products:

Explosive peroxides, carbon monoxide and dioxide, nitrogen oxides, hydrogen chloride

Hazardous Polymerization:

Has not been reported.

XI. Toxicological Information:

Flammable. Respiratory and digestive tract irritant. Skin and eye irritant. Aspiration hazard. May cause central nervous system depression.

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:

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IATA

Shipping name: Isopropyl alcohol

Hazard class: 3

UN no.: 1219

Packing group: II

Flammable liquid!

XV. Regulatory Information:

All ingredients are listed on the TSCA inventory.

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.