

**MSDS - Material Safety Data Sheet****Product Name: Hi-Fi Volcano Latent Print Powder, Copper Metallic**

MSDS No.: 107L

**I. Basic Information:**

Manufacturer: Sirchie Finger Print Laboratories, Inc.

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: 01/06/2006

Expiration Date:

Chemical State:  Liquid  Gas  SolidChemical Type:  Pure  Mixture

1	Health
2	Flammability
0	Reactivity
F	Pers. Protection

**II. Ingredients:** Trade Secret

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z	313					
21645512	Alumina hydrate	<1.25							5 mg/m3	10 mg/m3	
7440508	Copper	>13					X		0.1 mg/m3	0.2 mg/m3	
9000015	Gum arabic	58							NE	5 mg/m3	90 C
0	Lycopodium	14							NE	NE	
7631869	Silica, amorphous	<1.4							80 mg/m3	10 mg/m3	3 mg/m3
13463677	Titanium dioxide	11-13							15 mg/m3	10 mg/m3	5 mg/m3

**III. Hazardous Identification:**

Hazard Category:

 Acute  Chronic  Fire  Pressure  Reactive

Hazardous Identification Information:

May be dangerous if swallowed. Respiratory and digestive tract irritant. Skin irritant. Severe 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):

Exposure: Metal-fume fever, metallic taste, discoloration of the skin and hair

Acute exposure: Metallic taste, nasal ulceration and perforation

Chronic: Sensitization dermatitis

Signs and Symptoms:

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Acute poisoning: Hemolysis, jaundice, anuria, hypotension, convulsions

Inhalation: Cough, discomfort, difficulty breathing, shortness of breath

Ingestion: Vomiting, collapse

Skin: Rash

Eyes: Discomfort, tearing, blurry vision, inflammation, redness, itching

**Medical Conditions Generally Aggravated by Exposure:**

Skin, eye, respiratory, nasal septum, gastrointestinal kidney, liver, cardiovascular diseases

**Emergency and First Aid Procedures:**

Inhalation: Remove to fresh air. If breathing becomes difficult, give oxygen (To be administered by qualified medical personnel only!) If breathing stops, perform artificial respiration. Seek medical attention.

Ingestion: If victim is conscious and alert, give large quantities of water or milk. (Never give anything by mouth to an unconscious person!) Induce vomiting. Lower the head so that the vomit will not re-enter the mouth and throat. Seek medical attention.

Skin: Wash with soap and water. If irritation occurs, seek medical attention.

Eyes: Rinse with plenty of water for 15 minutes and seek medical attention. DO NOT use eye ointment.

Convulsions: Do not restrain the victim, but do remove objects with which they might injure themselves; or, orient the victim to prevent them from striking fixed heavy objects. If the convulsions cease, turn the victim on their side or face down, so that any fluid in the mouth can drain.

**Other Health Warnings:**

***V. Fire Fighting Measures:***

**Flash Point:** >90 C

**Lower Explosive Limit:** NE

**Upper Explosive Limit:** NE

**F.P. Method:**

**Fire Extinguishing Media:** Dry chemical, carbon dioxide, water, aqueous foam

**Special Fire Fighting Procedures:**

Wear self-contained breathing apparatus and protective clothing. Cool containers with water jet in order to prevent pressure build-up, autoignition, or explosion.

**Unusual Fire and Explosion:**

Can pose dust explosion hazard if dispersed in air.

***VI. Accidental Release Measures:***

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

Wear dust respirator, safety goggles, and rubber gloves. Sweep up and place in bag or vacuum up with proper filter equipped instrument. Avoid creating dust. Ventilate and wash spill site after collecting solid. Dispose according to local, state, and federal regulations.

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### VII. Handling and Storage:

#### Precautions to be Taken:

Keep in tightly closed container. Keep cool and dry. Protect from damage. Avoid all ignition sources (heat, open flame, spark). Avoid incompatible materials. Ground all equipment containing material. Use only in well-ventilated areas. Avoid dust generation and accumulation. Avoid ingesting and breathing dust. Avoid contact with eyes. Wash thoroughly after handling.

#### Other Precautions:

DO NOT wear contact lenses while using this product.

### VIII. Exposure Controls/Personal Protection:

#### Ventilation Requirements:

Use only in well-ventilated areas.

#### Personal Protective Equipment:

Safety goggles, gloves, dust respirator, protective clothing

### IX. Physical and Chemical Properties:

Boiling Point: NE

Melting Point: NE

Evaporation Rate (Butyl Acetate = 1): NE

Vapor Pressure (mm Hg.): NE

Specific Gravity (H<sub>2</sub>O = 1): 1.00000

Vapor Density (AIR = 1): NE

Solubility In Water: Hydrates to viscous solution

Appearance and Odor: Odorless reddish powder

#### Other Information:

### X. Stability and Reactivity:

#### Stability:

Stable

#### Incompatibility (Materials to Avoid):

Ignition sources (heat, open flame, spark), strong alkalis, chlorates, bromates, mineral acids

#### Decomposition/By Products:

Carbon monoxide and dioxide, flammable hydrogen gas, copper compounds

#### Hazardous Polymerization:

Will not occur.

### XI. Toxicological Information:

### XII. Ecological Information:

Prevent from entering sewers or waterways. May be toxic to some aquatic life.

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### ***XIII. Disposal Considerations:***

Dispose according to local, state, and federal regulations.

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

Keep in tightly closed container. Keep cool and dry. Protect from damage. Avoid all ignition sources (heat, open flame, spark). Avoid incompatible materials. Ground all equipment containing material. Avoid dust generation and accumulation. Avoid ingesting and breathing dust. Avoid contact with eyes. Wash thoroughly after handling.

### ***XV. Regulatory Information:***

All ingredients, except lycopodium, are listed on the TSCA inventory.

Lycopodium is hazardous by definition of OSHA Hazard Communication Standard (29 CFR 1910.1200).

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.