# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

<table>
<thead>
<tr>
<th>Product form</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>106L Hi-Fi Volcano Latent Print Powder, Gold Metallic</td>
</tr>
<tr>
<td>Product code</td>
<td>106L</td>
</tr>
</tbody>
</table>

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: Latent fingerprint powder

## 1.3. Details of the supplier of the safety data sheet

SIRCHIE Finger Print Laboratories  
100 Hunter Place  
Youngsville, NC 27596 - USA  
T 919-554-2244; 800-356-7311 - F 919-554-2266; 800-899-8181  
http://www.sirchie.com

## 1.4. Emergency telephone number

Emergency number: 1.800.424.9300

# SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

**Classification (GHS-US)**

- Flam. Sol. 2: H228  
- Eye Irrit. 2A: H319

Full text of H-phrases: see section 16

## 2.2. Label elements

**GHS-US labeling**

<table>
<thead>
<tr>
<th>Hazard pictograms (GHS-US)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GHS02</td>
<td><img src="image" alt="" /></td>
</tr>
</tbody>
</table>

**Signal word (GHS-US):** Warning

**Hazard statements (GHS-US):**

- H228 - Flammable solid  
- H319 - Causes serious eye irritation

**Precautionary statements (GHS-US):**

- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
- P240 - Ground/bond container and receiving equipment  
- P241 - Use explosion-proof electrical/ventilating/lighting/… equipment  
- P264 - Wash ... thoroughly after handling  
- P280 - Wear protective gloves/protective clothing/eye protection/face protection  
- P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
- P337+P313 - If eye irritation persists: Get medical advice/attention  
- P370+P378 - In case of fire: Use ... to extinguish

## 2.3. Other hazards

No additional information available

## 2.4. Unknown acute toxicity (GHS-US)

Not applicable

# SECTION 3: Composition/information on ingredients

## 3.1. Substance

Not applicable

## 3.2. Mixture

Not applicable
106L Hi-Fi Volcano Latent Print Powder, Gold Metallic
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>gum arabic</td>
<td>(CAS No) 9000-01-5</td>
<td>60</td>
<td>Eye Irr. 2A, H319</td>
</tr>
<tr>
<td>copper powder</td>
<td>(CAS No) 7440-50-8</td>
<td>28-38</td>
<td>Flam. Sol. 2, H228</td>
</tr>
<tr>
<td>zinc, powder or dust, water-reactive</td>
<td>(CAS No) 7440-86-6</td>
<td>2-12</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures
First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation: Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries: Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media
Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture
Fire hazard: Flammable solid.
Explosion hazard: May form flammable/explosive vapor-air mixture.
Reactivity: No data available.

5.3. Advice for firefighters
Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General measures: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections
See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Additional hazards when processed: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking.

### 7.2. Conditions for safe storage, including any incompatibilities

<table>
<thead>
<tr>
<th>Technical measures</th>
<th>Comply with applicable regulations.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage conditions</td>
<td>Keep only in the original container in a cool, well ventilated place away from: Keep container closed when not in use. Keep in fireproof place.</td>
</tr>
<tr>
<td>Incompatible products</td>
<td>Strong bases. Strong acids.</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>Sources of ignition. Direct sunlight. Heat sources.</td>
</tr>
</tbody>
</table>

### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

<table>
<thead>
<tr>
<th>106L Hi-Fi Volcano Latent Print Powder, Gold Metallic</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
</tr>
<tr>
<td>OSHA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>copper, powder (7440-50-8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
</tr>
<tr>
<td>OSHA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>gum arabic (9000-01-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
</tr>
<tr>
<td>OSHA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>zinc, powder or dust, water-reactive (7440-66-6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
</tr>
<tr>
<td>OSHA</td>
</tr>
</tbody>
</table>

#### 8.2. Exposure controls


- Hand protection: Wear protective gloves.
- Eye protection: Chemical goggles or safety glasses.
- Respiratory protection: Wear appropriate mask.
- Other information: Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Powders. Metal powder.</td>
</tr>
<tr>
<td>Color</td>
<td>No data available on colour</td>
</tr>
<tr>
<td>Odor</td>
<td>odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
</tbody>
</table>
106L Hi-Fi Volcano Latent Print Powder, Gold Metallic
Safety Data Sheet

Flammability (solid, gas) : No data available
Explosion limits : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Vapor pressure : No data available
Relative density : No data available
Relative vapor density at 20 °C : No data available
Solubility : Water: Solubility in water of component(s) of the mixture :
   • : < 0.1 g/100ml • :
Log Pow : No data available
Log Kow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available.

10.2. Chemical stability
Stable under normal conditions. Not established. Flammable solid. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions
No additional information available

10.4. Conditions to avoid

10.5. Incompatible materials
Strong acids. Strong bases.

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Not classified

<table>
<thead>
<tr>
<th>gum arabic (9000-01-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation : Not classified
   (Conclusive but not sufficient for classification)
Serious eye damage/irritation : Causes serious eye irritation.
   (Conclusive but not sufficient for classification)
Respiratory or skin sensitization : Not classified
   (Conclusive but not sufficient for classification)
Germ cell mutagenicity : Not classified
   Based on available data, the classification criteria are not met
Carcinogenicity : Not classified
   (Based on available data, the classification criteria are not met)
Reproductive toxicity : Not classified
   Based on available data, the classification criteria are not met
### Specific target organ toxicity (single exposure)
- Not classified

### Specific target organ toxicity (repeated exposure)
- Not classified

### Aspiration hazard
- Not classified

### Potential Adverse human health effects and symptoms
- Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

**copper, powder (7440-50-8)**
- LC50 fish 1: 200 μg/l (96 h; *Salmo gairdneri* (Oncorhynchus mykiss); Lethal)
- EC50 Daphnia 1: 109 - 798 μg/l (48 h; *Daphnia magna*; Locomotor effect)
- Threshold limit algae 1: 230 μg/l (72 h; *Pseudokirchneriella subcapitata*; Growth rate)

**zinc, powder or dust, water-reactive (7440-66-6)**
- LC50 fish 1: 2.61 mg/l (96 h; *Pimephales promelas*; Zinc ion)
- EC50 Daphnia 1: 0.068 - 0.56 mg/l (48 h; *Daphnia magna*; Zinc ion)
- LC50 fish 2: 7.3 mg/l (48 h; *Cyprinus carpio*; Zinc ion)
- Threshold limit algae 1: 0.0509 mg/l (Algae; Zinc ion)

### 12.2. Persistence and degradability

**106L Hi-Fi Volcano Latent Print Powder, Gold Metallic**
- Persistence and degradability: Not established.

**copper, powder (7440-50-8)**
- Persistence and degradability: Biodegradability: not applicable. Biodegradability in soil: not applicable. Adsorbs into the soil.
- Biochemical oxygen demand (BOD): Not applicable
- Chemical oxygen demand (COD): Not applicable
- ThOD: Not applicable
- BOD (% of ThOD): Not applicable

**gum arabic (9000-01-5)**
- Persistence and degradability: Biodegradability in water: no data available.

**zinc, powder or dust, water-reactive (7440-66-6)**
- Persistence and degradability: Biodegradability in soil: not applicable. Adsorbs into the soil.
- Biochemical oxygen demand (BOD): Not applicable
- Chemical oxygen demand (COD): Not applicable
- ThOD: Not applicable
- BOD (% of ThOD): Not applicable

### 12.3. Bioaccumulative potential

**106L Hi-Fi Volcano Latent Print Powder, Gold Metallic**
- Bioaccumulative potential: Not established.

**copper, powder (7440-50-8)**
- Bioaccumulative potential: Bioaccumulation: not applicable.

**gum arabic (9000-01-5)**
- Bioaccumulative potential: No bioaccumulation data available.

**zinc, powder or dust, water-reactive (7440-66-6)**
- BCF fish 1: 3000 (Pisces)
- BCF other aquatic organisms 1: 15000 (Ostreidae)

### 12.4. Mobility in soil
- No additional information available
### 12.5. Other adverse effects

- **Effect on the global warming**: No known ecological damage caused by this product.
- **Other information**: Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

- **Waste disposal recommendations**: Avoid any discharge of the product into waste water. Use appropriate containment to avoid environmental contamination. Dispose in a safe manner in accordance with local/national regulations.
- **Additional information**: Handle empty containers with care because residual vapors are flammable.
- **Ecology - waste materials**: Avoid release to the environment.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

- In accordance with DOT
- Not regulated for transport

#### Other information

- **Other information**: No supplementary information available.

#### ADR

- No additional information available

#### Transport by sea

- No additional information available

#### Air transport

- No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

- No additional information available

#### 15.2. International regulations

- **CANADA**: No additional information available

#### EU-Regulations

- No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

- No additional information available

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

- F; R11
- F; R15
- Xi; R36
- N; R51/53

Full text of R-phrases: see section 16

#### National regulations

- No additional information available

#### 15.3. US State regulations

- No additional information available
**106L Hi-Fi Volcano Latent Print Powder, Gold Metallic**

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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### SECTION 16: Other information

| Indication of changes | Revision - See : *.
|-----------------------|---------------------
| Other information     | None.

**Full text of H-phrases:**

<table>
<thead>
<tr>
<th><strong>Eye Irrit. 2A</strong></th>
<th>Serious eye damage/eye irritation Category 2A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flam. Sol. 2</strong></td>
<td>Flammable solids Category 2</td>
</tr>
<tr>
<td><strong>H228</strong></td>
<td>Flammable solid</td>
</tr>
<tr>
<td><strong>H319</strong></td>
<td>Causes serious eye irritation</td>
</tr>
</tbody>
</table>

**NFPA health hazard**

: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

**NFPA fire hazard**

: 1 - Must be preheated before ignition can occur.

**NFPA reactivity**

: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.

**HMIS III Rating**

**Health**

: 1 Slight Hazard - Irritation or minor reversible injury possible

**Flammability**

: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

**Physical**

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

**Personal Protection**

: E

E - Safety glasses, Gloves, Dust respirator

**SDS US (GHS HazCom 2012)**

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.