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

1.1. Product identifier

Product form : Mixture
Product name : 101T HiFi Volcano Latent Print Powder, "OPTI-Black T"
Product code : 101T

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)
Carc. 2 H351
Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling
Hazard pictograms (GHS-US) :

Signal word (GHS-US) : Warning
Hazard statements (GHS-US) : H351 - Suspected of causing cancer (Dermal, oral)
Precautionary statements (GHS-US) : P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P280 - Wear dust mask.
P308+P313 - If exposed or concerned: Get medical advice/attention
P405 - Store locked up
P501 - Dispose of contents/container to local, regional, national regulations

2.3. Other hazards

Other hazards not contributing to the classification :
Epidemiological studies of workers in the Carbon Black pigment producing industries of North America and Western Europe show no significant adverse health effect due to occupational exposure to Carbon Black pigment. Early studies in the former USSR and Eastern Europe report respiratory diseases among workers exposed to Carbon Black pigment, including bronchitis, pneumonia, emphysema, and rhinitis. Such studies are of questionable validity, due to inadequate study design and methodology, lack of appropriate controls for cigarette smoking, and other confounding factors such as concurrent exposures to carbon monoxide, coal oil and petroleum vapors. Moreover, review of these studies indicates that concentrations of Carbon Black pigment are greater that current occupational exposure standards. In Monograph 65, issued in April 1996, The International Agency for Research on Cancer (IARC) re-evaluated Carbon Black pigment and concluded that: “Although one cohort study on the Carbon Black pigment production industry showed slight excesses of cancer, the totality of the epidemiology studies, both in the Carbon Black pigment industry and in some user industries, suggested that there is inadequate evidence for the carcinogenicity in humans of Black pigment.
101T HiFi Volcano Latent Print Powder, "OPTI-Black T"
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2.4. Unknown acute toxicity (GHS-US)
Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>carbon black</td>
<td>(CAS No) 1333-86-4</td>
<td>75</td>
<td>Carc. 2, H351</td>
</tr>
<tr>
<td>calc</td>
<td>(CAS No) 14807-96-6</td>
<td>25</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). Suspected of causing cancer.

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

No additional information available

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

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

6.1.1. For non-emergency personnel

Protective equipment: Gloves. Safety glasses.

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.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling
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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep only in the original container in a cool, well ventilated place away from: Keep container closed when not in use.
Incompatible products: Strong bases. Strong acids.
Incompatible materials: Sources of ignition. Direct sunlight.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| 101T HiFi Volcano Latent Print Powder, "OPTI-Black T" |
|----------------------------------|------------------|------------------|
| **ACGIH**                        | **OSHA**         | **OSHA PEL (TWA) (mg/m³)** |
| OSHA PEL (TWA) (mg/m³)            | 3.5 mg/m³        |                               |
| carbon black (1333-86-4)         |                 |                               |
| ACGIH                            | ACGIH TWA (mg/m³) | 3 mg/m³                   |
| OSHA PEL (TWA) (mg/m³)            | 3.5 mg/m³        |                               |
| talc (14807-96-6)                |                 |                               |
| ACGIH                            | ACGIH TWA (mg/m³) | 2 mg/m³                   |
| OSHA                             | Not applicable   |                               |

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

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Powders.</td>
</tr>
<tr>
<td>Color</td>
<td>Black</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>3500 °C</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>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>
## 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
Insoluble in water.

Water: Solubility in water of component(s) of the mixture:
- : < 0.01 g/100ml
- : < 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.

### 10.3. Possibility of hazardous reactions
Not established.

### 10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials
Strong acids. Strong bases.

### 10.6. Hazardous decomposition products
Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity
Not classified

<table>
<thead>
<tr>
<th>carbon black (1333-86-4)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 8000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 3000 mg/kg (Rabbit)</td>
</tr>
</tbody>
</table>

#### Skin corrosion/irritation
Not classified

#### Serious eye damage/irritation
Not classified

#### Respiratory or skin sensitization
Not classified

#### Germ cell mutagenicity
Not classified

Based on available data, the classification criteria are not met

#### Carcinogenicity
Suspected of causing cancer (Dermal, oral).
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### Additional information

This product contains less than 0.1% of absorbed PAHs (polynuclear aromatic hydrocarbons). In non-absorbed form, some PAHs have been found to be carcinogens in animal studies. No correlating carcinogenic effect, however, has been observed in humans due to exposure to Carbon Black pigment. Chronic inflammation, lung fibrosis, and lung tumors have been observed in some rats experimentally exposed, for long periods of time, to very high concentrations. Researchers conducting rat inhalation studies believe that these effects most likely result from massive accumulation of small dust particles in the lung which overwhelm the natural lung clearance mechanism, known as "lung overload" phenomenon, rather than from a specific chemical effect of the dust particles in the lung.

### IARC group

<table>
<thead>
<tr>
<th>Substance</th>
<th>IARC group</th>
</tr>
</thead>
<tbody>
<tr>
<td>carbon black (1333-86-4)</td>
<td>2B - Possibly carcinogenic to humans</td>
</tr>
<tr>
<td>talc (14807-96-6)</td>
<td>3 - Not classifiable</td>
</tr>
</tbody>
</table>

### Reproductive toxicity

<table>
<thead>
<tr>
<th>Substance</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>carbon black (1333-86-4)</td>
<td>Not classified</td>
</tr>
<tr>
<td>talc (14807-96-6)</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

### Specific target organ toxicity (single exposure)

<table>
<thead>
<tr>
<th>Substance</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>carbon black (1333-86-4)</td>
<td>Not classified</td>
</tr>
<tr>
<td>talc (14807-96-6)</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

### Specific target organ toxicity (repeated exposure)

<table>
<thead>
<tr>
<th>Substance</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>carbon black (1333-86-4)</td>
<td>Not classified</td>
</tr>
<tr>
<td>talc (14807-96-6)</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

### Aspiration hazard

<table>
<thead>
<tr>
<th>Substance</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>carbon black (1333-86-4)</td>
<td>Not classified</td>
</tr>
<tr>
<td>talc (14807-96-6)</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

### Potential Adverse human health effects and symptoms

Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1. Toxicity

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50 (mg/l)</th>
<th>EC50 (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>carbon black (1333-86-4)</td>
<td>&gt; 1000 (96 h; Brachydaniio rerio)</td>
<td>&gt; 5600 (24 h; Daphnia magna)</td>
</tr>
<tr>
<td>talc (14807-96-6)</td>
<td>&gt; 100 (24 h; Brachydaniio rerio; Intermittent flow)</td>
<td></td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Substance</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>carbon black (1333-86-4)</td>
<td>Biodegradability: not applicable. Biodegradability in soil: not applicable. Adsorbs into the soil.</td>
</tr>
<tr>
<td></td>
<td>Biochemical oxygen demand (BOD)</td>
</tr>
<tr>
<td></td>
<td>Chemical oxygen demand (COD)</td>
</tr>
<tr>
<td></td>
<td>ThOD</td>
</tr>
<tr>
<td></td>
<td>BOD (% of ThOD)</td>
</tr>
<tr>
<td>talc (14807-96-6)</td>
<td>Persistence and degradability</td>
</tr>
<tr>
<td></td>
<td>Biochemical oxygen demand (BOD)</td>
</tr>
<tr>
<td></td>
<td>Chemical oxygen demand (COD)</td>
</tr>
<tr>
<td></td>
<td>ThOD</td>
</tr>
<tr>
<td></td>
<td>BOD (% of ThOD)</td>
</tr>
</tbody>
</table>

### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>carbon black (1333-86-4)</td>
<td>Not bioaccumulative.</td>
</tr>
</tbody>
</table>

08/25/2015 EN (English US) 5/1
12.4. Mobility in soil

<table>
<thead>
<tr>
<th>carbon black (1333-86-4)</th>
<th>Ecology - soil</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not toxic to plants. Not toxic to animals.</td>
</tr>
</tbody>
</table>

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: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to ...

Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

Additional 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]

Not classified

National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Indication of changes: Revision - See : *.
101T HiFi Volcano Latent Print Powder, "OPTI-Black T"
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Full text of H-phrases:

<table>
<thead>
<tr>
<th>Carc. 2</th>
<th>Carcinogenicity Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>H351</td>
<td>Suspected of causing cancer</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: 0 - Materials that will not burn.

NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS III Rating
Health: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability: 0 Minimal Hazard - Materials that will not burn
Physical: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Personal Protection: 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.