# 102LWM Hi-Fi Volcano Latent Print Powder, Silk Grey

Safety Data Sheet

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

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

### 1.1. Product identifier

Product form : Mixture

Product name : 102LWM Hi-Fi Volcano Latent Print Powder, Silk Grey

Product code : 102LWM

### 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. 1 H228
Carc. 2 H351

Full text of H-phrases: see section 16

### 2.2. Label elements

**GHS-US labeling**

Hazard pictograms (GHS-US) :

GHS02 GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H228 - Flammable solid
H351 - Suspected of causing cancer

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
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
P280 - Wear eye protection, protective gloves
P308+P313 - If exposed or concerned: Get medical advice/attention
P370+P378 - In case of fire: Use ... to extinguish
P405 - Store locked up
P501 - Dispose of contents/container to local/regional/national/international regulations

### 2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

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

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name | Product identifier | % | Classification (GHS-US) |
|---|---|---|---|
| titanium(IV) oxide | (CAS No) 13463-67-7 | 40 - 49 | Carc. 2, H351 |
| Lycopodium | (CAS No) 8023-70-9 | 35 | Flam. Sol. 1, H228 |
| aluminium,powder,coated,dangerous | (CAS No) 7429-90-5 | <= 14.55 | Not classified |
| stearic acid | (CAS No) 57-11-4 | >= 0.45 | Not classified |
| Non-hazardous as defined in 29 CFR 1910.1200 | | | Not classified |

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

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

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

### 5.2. Special hazards arising from the substance or mixture

Reactivity : No reactivity hazard other than the effects described in sub-sections below.

### 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

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

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.

### 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

| 102LWM Hi-Fi Volcano Latent Print Powder, Silk Grey | | |
|---|---|---|
| ACGIH | Not applicable | |
| OSHA | Not applicable | |

| aluminium,powder,coated,dangerous (7429-90-5) | | |
|---|---|---|
| ACGIH | ACGIH TWA (mg/m³) | 1 mg/m³ (Aluminium, Metal; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction) |
| OSHA | Not applicable | |

| stearic acid (57-11-4) | | |
|---|---|---|
| ACGIH | Not applicable | |
| OSHA | Not applicable | |

| Lycopodium (8023-70-9) | | |
|---|---|---|
| ACGIH | Not applicable | |
| OSHA | Not applicable | |

| Non-hazardous as defined in 29 CFR 1910.1200 | | |
|---|---|---|
| ACGIH | Not applicable | |
| OSHA | Not applicable | |

| titanium(IV) oxide (13463-67-7) | | |
|---|---|---|
| ACGIH | ACGIH TWA (mg/m³) | 10 mg/m³ |
| OSHA | Not applicable | |

### 8.2. Exposure controls

Personal protective equipment : Dust formation: dust mask. Gloves. Safety glasses.

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

Physical state : Solid

Appearance : Powders.

Color : Gray

Odor : odorless

Odor threshold : No data available

pH : No data available

| | | |
|---|---|---|
| Melting point | : | No data available |
| Freezing point | : | No data available |
| Boiling point | : | No data available |
| Flash point | : | No data available |
| Relative evaporation rate (butyl acetate=1) | : | No data available |
| 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 | : | Insoluble in water.<br>Water: Solubility in water of component(s) of the mixture :<br>• stearic acid: 0.0003 g/100ml • : 0.15 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 reactivity hazard other than the effects described in sub-sections below.

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

### 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

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| stearic acid (57-11-4) | |
|---|---|
| LD50 oral rat | > 5000 mg/kg (Rat) |
| LD50 dermal rabbit | > 5000 mg/kg (Rabbit) |

| titanium(IV) oxide (13463-67-7) | |
|---|---|
| LD50 oral rat | > 10000 mg/kg (Rat; OECD 425: Acute Oral Toxicity: Up-and-Down Procedure; Experimental value; > 5000 mg/kg bodyweight; Rat; Experimental value) |
| LD50 dermal rabbit | > 10000 mg/kg (Rabbit; Experimental value) |
| LC50 inhalation rat (mg/l) | > 6.8 mg/l/4h (Rat; Experimental value) |

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.

| titanium(IV) oxide (13463-67-7) | |
|---|---|
| IARC group | 2B - Possibly carcinogenic to humans |

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

| stearic acid (57-11-4) | |
|---|---|
| LC50 fish 1 | 14 mg/l (LC50) |

| titanium(IV) oxide (13463-67-7) | |
|---|---|
| LC50 fish 1 | > 1000 mg/l (96 h; Pimephales promelas) |
| EC50 Daphnia 1 | < 1000 mg/l (432 h; Daphnia magna; Static system) |
| LC50 fish 2 | > 1 g/l (96 h; Leuciscus idus) |
| EC50 Daphnia 2 | < 500 mg/l (720 h; Daphnia magna; Static system) |
| Threshold limit algae 1 | 61 mg/l (72 h; Pseudokirchneriella subcapitata) |

### 12.2. Persistence and degradability

| 102LWM Hi-Fi Volcano Latent Print Powder, Silk Grey | |
|---|---|
| Persistence and degradability | Not established. |

| aluminium,powder,coated,dangerous (7429-90-5) | |
|---|---|
| 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 |

| stearic acid (57-11-4) | |
|---|---|
| Persistence and degradability | Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil. |
| Biochemical oxygen demand (BOD) | 4 - 27 g $O_2$/g substance |
| BOD (% of ThOD) | 0.49 |

| titanium(IV) oxide (13463-67-7) | |
|---|---|
| Persistence and degradability | Biodegradability: not applicable. Not established. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

### 12.3. Bioaccumulative potential

| 102LWM Hi-Fi Volcano Latent Print Powder, Silk Grey | |
|---|---|
| Bioaccumulative potential | Not established. |

| aluminium,powder,coated,dangerous (7429-90-5) | |
|---|---|
| Bioaccumulative potential | No bioaccumulation data available. |

| stearic acid (57-11-4) | |
|---|---|
| Log Pow | 8.23 (Experimental value) |
| Bioaccumulative potential | No bioaccumulation data available. |

| titanium(IV) oxide (13463-67-7) | |
|---|---|
| Bioaccumulative potential | No bioaccumulation data available. Not established. |

### 12.4. Mobility in soil

| stearic acid (57-11-4) | |
|---|---|
| Surface tension | 0.029 N/m (70 °C) |

### 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.

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

| **102LWM Hi-Fi Volcano Latent Print Powder, Silk** Grey |
|---|
| Listed on United States SARA Section 313<br>Listed on the United States TSCA (Toxic Substances Control Act) inventory |

### 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

| **102LWM Hi-Fi Volcano Latent Print Powder, Silk** Grey |
|---|
| Listed on IARC (International Agency for Research on Cancer) |

### 15.3. US State regulations

| **102LWM Hi-Fi Volcano Latent Print Powder, Silk** Grey**()** | |
|---|---|
| U.S. - California - Proposition 65 - Carcinogens List | Yes |
| U.S. - California - Proposition 65 - Developmental Toxicity | No |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | No |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No |

## SECTION 16: Other information

Indication of changes : Revision - See : *.

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging. Keep in tightly closed container. Keep cool and dry. Avoid all ignition sources - heat, open flame, sparks. Avoid incompatible materials. Avoid dust creation and accumulation. Avoid inhalation and ingestion. Avoid contact with eyes. Wash thoroughly after handling.

Other information : This Safety Data Sheet has been established in accordance with the applicable European Union legislation.

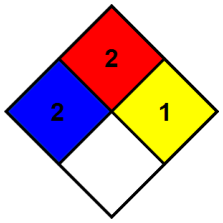
Full text of H-phrases:

| | |
|---|---|
| Carc. 2 | Carcinogenicity Category 2 |
| Flam. Sol. 1 | Flammable solids Category 1 |
| H228 | Flammable solid |
| H351 | Suspected of causing cancer |

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard : 2 - Must be moderately heated or exposed to relatively high temperature 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 | : | 2 Moderate Hazard - Temporary or minor injury may occur |
| Flammability | : | 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA) |
| 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<br>E - Safety glasses, Gloves, Dust respirator |

SDS US (GHS HazCom 2012)

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