

MSDS - Material Safety Data Sheet**Product Name: Heavy Volcano Latent Print Powder, Heavy Grey -****MSDS No.: HLP02****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:** 01/27/2011**Expiration Date:****Chemical State:** Liquid Gas Solid**Chemical Type:** Pure Mixture

2	Health
2	Flammability
1	Reactivity
F	Pers. Protection

II. Ingredients: **Trade Secret** (N/D = Not Disclosed)

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z	313					
7429905	Aluminum	>24						5 mg/m3	5 mg/m3	1,094 F	
1317619	Black iron oxide	50						15 mg/m3	10 mg/m3	140 F	
0	Lycopodium	25						NE	NE		

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

May be dangerous if ingested. Respiratory tract irritant. Skin irritant. Severe eye irritant. May cause siderosis.

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):

Chronic: Siderosis

Signs and Symptoms:

Eyes: Inflammation, redness, watering, itching

Medical Conditions Generally Aggravated by Exposure:

Skin, eye, respiratory

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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. Keep victim warm and at rest. 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. Seek medical attention. DO NOT use an 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: NE

Lower Explosive Limit: 0.035

Upper Explosive Limit: NE

F.P. Method:

Fire Extinguishing Media: Dry sand, dry inert granular material or powder, approved dry powder extinguishing agent--DO NOT use water

Special Fire Fighting Procedures:

Wear self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion:

Can pose dust explosion hazard if dispersed in air. Storage at temperatures above 140 F may cause the black iron oxide to oxidize, generating heat which could cause surrounding combustibles to burn. May react with water to form combustible hydrogen gas.

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.

VII. Handling and Storage:

Precautions to be Taken:

Keep in tightly closed container. Keep cool and dry. Store below 140 F! Avoid all ignition sources (heat, open flame, spark). Avoid incompatible materials, especially water. Ground all equipment containing material. Use only in well-ventilated areas. Avoid dust generation and accumulation. Avoid ingestion and inhalation of dust. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling and before eating, drinking, or using tobacco products.

Other Precautions:

DO NOT wear contact lenses while using this material.

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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: 3,733 F

Melting Point: 1,220 F

Evaporation Rate (Butyl Acetate = 1): N/A

Vapor Pressure (mm Hg.): 1

Specific Gravity (H₂O = 1):

Vapor Density (AIR = 1): N/A

Solubility In Water: Insoluble

Appearance and Odor: Grey powder

Other Information:

X. Stability and Reactivity:

Stability:

Stable

Incompatibility (Materials to Avoid):

Acids, strong alkalis, strong bases, strong oxidizers, iodates, chlorinated hydrocarbons, oxides, nitrites, nitrates, carbon disulfide, chlorides, sodium peroxide + carbon dioxide, sulfur dichloride, palladium, manganese, magnesium + potassium chlorate, sodium carbonate, sulfates, diborane, water, ignition sources (heat, open flame, spark)

Decomposition/By Products:

Combustible hydrogen gas

Hazardous Polymerization:

Will not occur

XI. Toxicological Information:

Prolonged inhalation of iron oxide dust is known to produce a condition known as siderosis. On x-rays, it appears to be a benign pneumoconiosis, and is not associated with pulmonary fibrosis or disability unless there is concurrent exposure to other fibrosis-producing materials such as silica. The TLV is set to protect against siderosis.

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 pursuant to 40 CFR part 261 of RCRA.

XIV. Transport Information:

Keep in tightly closed container. Keep cool and dry. Maintain below 140 F! Avoid all ignition sources (heat, open flame, spark). Avoid incompatible materials, especially water. Ground all equipment containing material. Avoid dust generation and accumulation. Avoid ingestion and inhalation of dust. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling and before eating, drinking, or using tobacco products.

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XV. Regulatory Information:

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.