



SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION					
PRODUCT NAME:		Lightning® Bi-Chromatic™ Magnetic Fingerprint Powder			
PRODUCT NUMBER:		1-0165 (1003951), 1-0175 (1003958), 1-0178 (1003960), 1-0306 (1003995)		DATE: July 22, 2011	
TRADE NAME: BiChromatic Magnetic Powder					
GENERAL USE: Latent Fingerprint Powder					
CHEMICAL FAMILY: Iron-Based Powder					
PRODUCT DESCRIPTION: Silver/black, metallic powder with no odor					
MANUFACTURER: Safariland LLC		DATE PREPARED: July 22, 2011		SUPERSEDES: July 24, 2008	
ADDRESS (NUMBER, STREET, P.O. BOX): 13386 International Parkway		TELEPHONE NUMBER FOR INFORMATION / Customer Service: 800-347-1200			
(CITY, STATE AND ZIP CODE): Jacksonville, FL. 32218		COUNTRY: USA		CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER  1-800-255-3924 01-813-248-0585 North America Toll Free International	
SECTION 2 - HAZARDS IDENTIFICATION					
EMERGENCY OVERVIEW					
Irritant dust; avoid creation of dust clouds.					
POTENTIAL HEALTH EFFECTS					
INHALATION: Dust concentrations above the permissible limit may cause temporary respiratory tract discomfort. Long term exposure to dust may cause irreversible lung damage.					
SKIN: Possible slight to moderate redness may occur with exposure.					
EYES: Possible transient irritation. Not classed as a primary irritant.					
INGESTION: This product should be considered toxic, especially if ingested by children.					
CARCINOGENICITY:					
NTP? NO		IARC MONOGRAPHS? NO		OSHA REGULATED? NO	
CALIFORNIA, Prop.65? NO					
SECTION 3 - HAZARDOUS INGREDIENTS					
Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Iron Powder	80-90	7439-89-6	231-096-4	None	None
Carbon Black	10-20	1333-86-4	215-609-9	None	None
Aluminum	<1	7429-90-5	231-072-3	F	R10, R15
Notes:					
SECTION 4 - FIRST AID MEASURES					
INHALATION: Remove victim to fresh air. Provide beathing support if needed. Call a physician for serious cases.					
EYES: Flush with water for 15 minutes occasionally lifting the eyelids. Contact a physician if irritation persists.					
SKIN: Wash with soap and water and launder contaminated clothing before re-use.					
INGESTION: Give plenty of water and nduce vomiting as directed by medical professionals. Seek immediate medical attention.					
SECTION 5 - FIRE FIGHTING MEASURES					
GENERAL HAZARDS: Can pose a dust explosion hazard if dispersed in air. Avoid ignition sources.					
EXTINGUISHING MEDIA: Dry chemical, sand, graphite to smother fire. DO NOT USE HALON-TYPE FIRE EXTINGUISHERS!!!					
FIRE FIGHTING PROCEDURES: Do not use halogenated extinguishing methods. Ring small fire with sand, using non-sparking shovels, eliminate drafts, and let fire extinguish itself.					
Possible transient irritation. Not classed as a prima					
Metal powders can be considered a flammable solid. It may be ignited by static discharge and burn at extremely high temperatures.					
HAZARDOUS COMBUSTION PRODUCTS: Combustion produces major amounts of Carbon Monoxide, Carbon Dioxide, Smoke, and Soot.					

MATERIAL SAFETY DATA SHEET

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
 Cleaning should be done with a soft brush or sponge, and pickup should be done with non-sparking, conductive scoops. Plastic scoops should not be used because of their tendency to accumulate strong static charges.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
 Avoid dust cloud formations. Do not store above 120°F. Keep away from acids, strong alkalis, strong bases and oxidizers. Use and store with adequate ventilation. Keep containers closed when not in use.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS COMPONENTS	NIOSH				ACGIH		OSHA	
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	STEL ppm	PEL mg/m3
Iron Powder	NL	NL	NL	NL	NL	NL	NL	NL
Carbon Black		3.5				3.5		3.5
Aluminum		10				10		15

PERSONAL PROTECTION

RESPIRATORY PROTECTION:
 Not required in unconfined or well ventilated areas. Use NIOSH or E.U. EN149 standard approved respirators for areas where general ventilation is not possible.

PROTECTIVE GLOVES:
 Gloves are advised for repeated or prolonged contact.

EYE PROTECTION:
 Safety glasses for prolonged use.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
 Eye wash station in the event of eye contact with material.

WORK / HYGIENIC PRACTICES:
 Employ good, industrial hygiene practices by using adequate ventilation and personal protection, as needed. Where dust cannot be controlled, personal respiratory protection should be employed.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR Silver/black, metallic powder with no odor.	VAPOR PRESSURE NE
pH NA	SPECIFIC GRAVITY (WATER = 1) 3
MELTING POINT NE	SOLUBILITY IN WATER Nil
FLASH POINT NE	VISCOSITY NA
FLAMMABLE LIMITS LEL: 40 mg/l UEL: NE	VAPOR DENSITY (AIR = 1) NE
AUTOIGNITION TEMPERATURE NE	EVAPORATION RATE (WATER = 1) NE

SECTION 10 - STABILITY AND REACTIVITY

STABILITY STABLE X	CONDITIONS TO AVOID: See Below
INCOMPATIBILITY (MATERIALS TO AVOID): Aluminum powder oxidizes when heated at a temperature dependent rate, reacts violently with oxidizers to produce heat, reacts with water and slowly generates heat and hydrogen, and reacts with some acids and alkalis to form hydrogen gas.	

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
 None

HAZARDOUS POLYMERIZATION:
 Will not occur. **CONDITIONS TO AVOID:**
None related to polymerization.

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Iron Powder	7439-89-6	30g/kg (oral, rat)	Not Established
	231-096-4		
Carbon Black	1333-86-4	>15,400 mg/kg (oral, rat)	lowest published toxic concentration: 1.66 mg/m3/7 hour
	231-072-3		
Aluminum	7429-90-5	Not Established	Not Established
	231-072-3		

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SECTION 12 - ECOLOGICAL INFORMATION

No ecological information is available for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Dispose of product waste as well as containers in accordance with all local, state and federal regulations. **AVOID CLOUDS OF ALUMINUM DUST!**

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not regulated for transport.

<p>DOT HAZARD CLASS / Pack Group: Not regulated for transport.</p> <p>REFERENCE:</p> <p>UN / NA IDENTIFICATION NUMBER: None</p> <p>LABEL: None</p> <p>HAZARD SYMBOLS: NONE</p>	<p>IATA HAZARD CLASS / Pack Group: Not regulated.</p> <p>IMDG HAZARD CLASS: Not regulated.</p> <p>RID/ADR Dangerous Goods Code: Not regulated.</p> <p>UN TDG Class / Pack Group: Not regulated.</p> <p>Hazard Identification Number (HIN): None</p>
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Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act): No

SARA TITLE III (USA - Superfund Amendments and Reauthorization Act): No

Acute Health: Yes	Chronic Health: Yes
Fire: NO	Sudden Release of Pressure: NO
Reactive: NO	

313 REPORTABLE INGREDIENTS: No

CERCLA (USA - Comprehensive Response Compensation and Liability Act): Not listed.

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: Not listed.

State Right to Know: Carbon: NJ,PA; **Aluminum:** MA, NJ, PA.

CPR (Canadian Controlled Products Regulations): Not listed

IDL (Canadian Ingredient Disclosure List): Listed.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): Components listed on DSL.

EINECS (European Inventory of Existing Commercial Chemical Substances): Referenced.

WGK Water Quality Index: 2

RISK PHRASES:	SYMBOL(S) REQUIRED FOR EU LABEL	SAFETY PHRASES:
None	None	None

SECTION 16 - OTHER INFORMATION

Legend: NA= Not applicable, NE= Not established, ND= Not determined.

HMIS HAZARD RATINGS	HEALTH:	1	0 = INSIGNIFICANT
	FLAMMABILITY:	2	1 = SLIGHT
	PHYSICAL HAZARD:	0	2 = MODERATE
	PERSONAL PROTECTIVE EQUIPMENT:	B	3 = HIGH
			4 = EXTREME

REVISION SUMMARY:

Revised to E.U. protocols 7/22/2011 supersedes 7/24/2008 issue. JTV

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.