



MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Black Emerald Magnetic Powder - AH1		DATE: August 01, 2011
PRODUCT NUMBER:		
TRADE NAME: Black Emerald Magnetic Powder GENERAL USE: Latent Fingerprint Powder CHEMICAL FAMILY: Iron-based magnetic fingerprint powder. PRODUCT DESCRIPTION: Black, metallic powder with no odor.		
MANUFACTURER: Safariland LLC	DATE PREPARED: August 1, 2011	
	SUPERSEDES: September 16, 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 and potentially combustible dust; avoid creation of dust clouds.

POTENTIAL HEALTH EFFECTS

INHALATION:
May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

SKIN:
No adverse effects expected.

EYES:
May cause irritation, redness and pain. Eye contact may cause conjunctivitis and deposition of iron particles can leave a "rust ring" or brownish stain on the cornea.

INGESTION:
Extremely large oral dosages may produce gastrointestinal disturbances. An overdose of iron may cause vomiting, abdominal pain, bloody diarrhea, vomiting blood, lethargy, and shock. In severe cases, toxicity may progress and develop into an increase in acidity in the blood, bluish skin discoloration, fever, liver damage, and possibly death.

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
Pigment	10-15	NR	NR	None	None
Dyed Pigment	1-5	NR	NR	None	None

Notes:

SECTION 4 - FIRST AID MEASURES

INHALATION:
Remove victim to fresh air. Get medical attention for any breathing difficulty.

EYES:
Flush with water for 15 minutes occasionally lifting the eyelids.

SKIN:
Wash with soap and water.

INGESTION:
Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

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SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:
 Moderate fire hazard in form of dust when exposed to heat or flame. Can react with water to liberate flammable hydrogen gas. Minimum ignition temperature, iron dust cloud: 430C (805F). Ultra fine iron powder (ca. 5 microns) is pyrophoric and can ignite spontaneously in air.

EXTINGUISHING MEDIA:
 Use powdered graphite, powdered salt, or powdered limestone. DO NOT use water, Carbon Dioxide, or dry chemical.

FIRE FIGHTING PROCEDURES:
 Emergency responders should wear bunker gear and NIOSH or European EN-149 organic vapor respirators avoid exposure to decomposition products (29CFR 1910.156). Proper eye and skin protection should also be used. Fog nozzle and fine spray to prevent dusting.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
 Ignition may produce dense black smoke. This product may contain residual oxygenated volatiles which can further react and generate heat. It may not be obvious that material is burning unless it is stirred and sparks are apparent.

HAZARDOUS COMBUSTION PRODUCTS:
 Combustion produces major amounts of Carbon Monoxide, Carbon Dioxide, Smoke, Soot and minor amounts of Nitrogen oxides and Sulfur oxides.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
 Vacuum, sweep, or spray with water and collect in a suitable container. Collect uncontaminated material for possible reuse.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
 Do not store above 120°F. Keep away from oxidizing agents.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS COMPONENTS	NIOSH				ACGIH		OSHA	
	TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³	TLV/TWA ppm	TWA mg/m ³	STEL ppm	PEL mg/m ³
Iron Powder						10		15
Pigment		NR				NR		NR
Dyed Pigment		NR				NR		NR

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 or splash goggles 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 Black, metallic powder with no odor.	VAPOR PRESSURE NE
pH NA	SPECIFIC GRAVITY (WATER = 1) 3
MELTING POINT NE	SOLUBILITY IN WATER Insoluble
FLASH POINT NE	VISCOSITY NA
FLAMMABLE LIMITS LEL: NE UEL: NE	VAPOR DENSITY (AIR = 1) NE
AUTO-IGNITION TEMPERATURE NE for mixture; 430°C (805°F) for iron powder.	EVAPORATION RATE (WATER = 1) NE

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SECTION 10 - STABILITY AND REACTIVITY

STABILITY STABLE X	CONDITIONS TO AVOID: Excessive heat, dusty conditions.
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INCOMPATIBILITY (MATERIALS TO AVOID):
 Strong oxidizers such as chlorates, bromates, and nitrates; strong acids and bases.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
 Major amounts of Carbon Monoxide, Carbon Dioxide, Smoke, Soot and minor amounts of Nitrogen and Sulfur oxides.

HAZARDOUS POLYMERIZATION: Will not occur.	CONDITIONS TO AVOID: None related to polymerization.
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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	NR	NR
	231-096-4		
Pigment	NR	NR	NR
	NR		
Dyed Pigment	NR	NR	NR
	NR		

SECTION 12 - ECOLOGICAL INFORMATION

No ecological information is available for this product. Given the nature of thiocyanates, it should be assumed that this product is harmful to aquatic life. Therefore, do not release this product into sewers or waterways.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
 Dispose of product waste as well as containers in accordance with all local, state and federal regulations.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not regulated for transport.	
DOT HAZARD CLASS / Pack Group: Not regulated for transport. REFERENCE: 49 CFR UN / NA IDENTIFICATION NUMBER: None LABEL: None HAZARD SYMBOLS: NONE	IATA HAZARD CLASS / Pack Group: Not regulated. IMDG HAZARD CLASS: Not regulated. RID/ADR Dangerous Goods Code: Not regulated. UN TDG Class / Pack Group: Not regulated. Hazard Identification Number (HIN): None

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.

