SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Black Emerald Magnetic Powder - AHI

PRODUCT NUMBER: DATE: August 01, 2011

TRADE NAME: Black Emerald Magnetic Powder
GENERAL USE: Latent Fingerprint Powder

CHEMICAL FAMILY: Iron-based magnetic fingerprint powder.

PRODUCT DESCRIPTION:

MANUFACTURER

Black, metallic powder with no odor.

DATE PREPARED: August 1, 2011

 Safariland LLC
 SUPERSEDES:
 September 16, 2008

 ADDRESS (NUMBER, STREET, P.O. BOX)
 TELEPHONE NUMBER FOR INFORMATION / Customer Service

13386 International Parkway 800-347-1200

(CITY, STATE AND ZIP CODE) COUNTRY

Jacksonville, FL. 32218 USA

Nor

CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER
1-800-255-3924 01-813-248-

LIGHTNING

POWDER®

1-800-255-3924 01-813-248-0585North 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.

FYFS:

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.

PRODUCT NAME: Black Emerald Magnetic Powder - AHI

PRODUCT NUMBER: DATE: August 01, 2011

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								
	NIOSH			ACGIH		OSHA		
HAZARDOUS COMPONENTS	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	STEL ppm	PEL mg/m3
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	VAPOR PRESSURE			
Black, metallic powder with no odor.	NE			
рН	SPECIFIC GRAVITY (WATER = 1)			
NA	3			
MELTING POINT	SOLUBILITY IN WATER			
NE	Insoluble			
FLASH POINT	VISCOSITY			
NE	NA			
FLAMMABLE LIMITS	VAPOR DENSITY (AIR = 1)			
LEL: NE UEL: NE	NE			
AUTO-IGNITION TEMPERATURE	EVAPORATION RATE (WATER = 1)			
NE for mixture; 430°C (805°F) for iron powder.	NE			

PRODUCT NAME:	Black Emerald Magnetic	Powder - AHI	DATE: August 04 2044		
PRODUCT NUMBER:	SECTION 10 - ST	ABILITY AND REACTIVITY	DATE: August 01, 2011		
STABILITY	STABLE X	CONDITIONS TO AVOID:			
STABLE X		Excessive heat, dusty conditions.			
INCOMPATIBILITY (MATERIALS TO	O AVOID):				
Strong oxidizers such as chlorate	es, bromates, and nitrates; str	ong acids and bases.			
HAZARDOUS DECOMPOSITION O	R BYPRODUCTS:				
Major amounts of Carbon Monoxi	de, Carbon Dioxide, Smoke, §	Soot and minor amounts of Nitrogen and	I Sulfur oxides.		
HAZARDOUS POLYMERIZATION:		CONDITIONS TO AVOID:			
Will not occur.		None related to polymerization.			
	SECTION 11 - TOX	ICOLOGICAL INFORMATION			
Hazardaya Componento	CAS#	LD50 of Ingredient	LC50 of Ingredient		
Hazardous Components	FINECS # 7439-89-6	(Specify Species and Route)	(Specify Species)		
Iron Powder		NR	NR		
	231-096-4				
Pigment	NR	NR	NR NR		
. 19	NR				
D Di	NR	ND			
Dyed Pigment	NR	NR	NR		
	SECTION 12 - EC	COLOGICAL INFORMATION			
No ecological information is available life. Therefore, do not release this pr	le for this product. Given the nat	ture of thiocyanates, it should be assumed t	that this product is harmful to aquatic		
IIIe. Triereiore, uo nocreiease uns pi					
WASTE DISPOSAL METHOD:	SECTION 13 - DIS	SPOSAL CONSIDERATIONS			
	containers in accordance with	all local, state and federal regulations.			
Dispesso of product made as from as		RANSPORT INFORMATION			
PROPER SHIPPING NAME:	Not regulated for transport.	CANSI ONI INI ONIMATION			
		T			
DOT HAZARD CLASS / Pack Group:	Not regulated for transport.	IATA HAZARD CLASS / Pack Group:	Not regulated.		
REFERENCE: 49 CFR		IMDG HAZARD CLASS: Not regulated	I.		
UN / NA IDENTIFICATION NUMBER:	None	RID/ADR Dangerous Goods Code:	Not regulated.		
LABEL: None		UN TDG Class / Pack Group: Not regulated	i.		
HAZARD SYMBOLS: NONE		Hazard Identification Number (HIN):	None		
Note: Transportation information pro	vided is for reference only. Clie	ent is urged to consult CFR 49 parts 100 - 17	77. IMDG, IATA, EU, United Nations		
TDG, and WHMIS (Canada) TDG in		regulations and exceptions covering specific			
and methods of shipping.					

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PRODUCT NUMBER: DATE: August 01, 2011

SECTION 15 - REGULATORY INFORMATION

No

TSCA (USA - Toxic Substance Control Act):

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.

Not listed.

Not listed.

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

SECTION 16 - OTHER INFORMATION

Legend: NA = Not Applicable,	NE = Not Established, ND = Not Determined,	NR = Not Reported.	
HMIS HAZARD RATINGS	HEALTH:	2	0 = INSIGNIFICANT
	FLAMMABILITY:	1	1 = SLIGHT
	PHYSICAL HAZARD:	0	2 = MODERATE
	PERSONAL PROTECTIVE EQUIPMENT:		3 = HIGH
		E	4 = EXTREME

REVISION SUMMARY:

Revised to E.U. protocols 8/1/2011 supersedes 9/16/2008 issue. JTV

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ChemTel INC.

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.