### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Lightning Spray® Black

PRODUCT NUMBER(S): 1-0401 (1004001) DATE: August 1, 2011

TRADE NAME: Lightning Spray® Black

GENERAL USE: Fingerprinting
CHEMICAL FAMILY: Organics
PRODUCT DESCRIPTION:

Flammable aerosol propellant and powder (black) with a

characteristic odor.

MANUFACTURED FOR:

DATE PREPARED: August 1, 2011
SUPERSEDES: September 30, 2009

Safariland, LLC

ADDRESS (NUMBER, STREET, P.O. BOX)

SUPERSEDES: September 30, 2009

TELEPHONE NUMBER FOR INFORMATION / Customer Service

13386 International Parkway 800-347-1200

(CITY, STATE AND ZIP CODE) COUNTRY

Jacksonville, FL 32218 USA

ChemTel INC.

CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER
1-800-255-3924 01-813-248-0585

North America Toll Free International

LIGHTNING

POWDER

### SECTION 2 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Extremely flammable aerosol. Irritating to skin, eyes, and respiratory system. Limited evidence of carcinogenicity, due to impurities in Carbon Black component. Vapors may cause drowsiness and dizziness. Keep out of the reach of children.

### POTENTIAL HEALTH EFFECTS

INHALATION:

Irritation of the mucous membranes, coughing, wheezing, shortness of breath, and dyspnea.

SKIN:

Capable of causing mild irritation, especially with chronic or prolonged contact. May cause dryness or cracking of the skin.

EYES:

Causes moderate irritation - potentially causes both chemical and mechanical irritation, with redness, tearing, and pain/burning.

INGESTION:

Unlikely as product is an aerosol.

CARCINOGENICITY:

NTP? No IARC MONOGRAPHS? Yes- Carbon Black (2B) OSHA REGULATED? No

CALIFORNIA, Prop.65? Yes (Carbon Black)

SECTION 3 - HAZARDOUS INGREDIENTS					
Hazardous Components	% (by Weight)	CAS#	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Isobutane	NR	75-28-5	200-857-2	F+, Xi	R12, R36/37/38
Isopropanol	NR	67-63-0	200-661-7	F , Xi	R11, R36/37/38
Carbon Black (a)	NR	1333-86-4	215-609-9	Xn, Xi	R36/37, R40

Notes: (a) - Listed on the California Proposition 65 list as a suspect carcinogen - See Section 15. Hazard symbols and risk phrases based on maximum listed concentration of each hazardous ingredient.

## SECTION 4 - FIRST AID MEASURES

### INHALATION:

Remove victim to fresh air, administer oxygen and/or artificial respiration if unconscious. Contact a physician immediately.

#### FYFS

Check for and remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention. Do not use over-the-counter products except under physician directions.

#### SKIN:

Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

### INGESTION:

In the unlikely case of ingestion, DO NOT INDUCE VOMITING!!! If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Seek immediate emergency medical attention; transport container with victim to assist with treatment.

PRODUCT NAME: Lightning Spray® Black

PRODUCT NUMBER(S): 1-0401 (1004001) DATE: August 1, 2011

### SECTION 5 - FIRE FIGHTING MEASURES

### GENERAL HAZARDS:

Forms explosive mixtures with air even at ambient temperatures. Development of hazardous combustion gases or vapors possible in the event of fire (CO, Carbon Monoxide). Special protective equipment for fire fighting: do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

### EXTINGUISHING MEDIA:

CO2 (Carbon Dioxide), alcohol-resistant foam, powder.

### FIRE FIGHTING PROCEDURES:

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

#### UNUSUAL FIRE AND EXPLOSION HAZARDS:

Forms explosive mixtures with air even at ambient temperatures. Development of hazardous combustion gases or vapors possible in the event of fire (CO, Carbon Monoxide).

### HAZARDOUS COMBUSTION PRODUCTS:

Carbon Monoxide, Carbon Dioxide.

# SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

**Person-related precautionary measures:** avoid substance contact. Do not breathe mists or dusts. Wear protective clothing. Keep unprotected persons away. Use only in well ventilated areas.

**Procedures for cleaning/absorption:** ensure adequate ventilation. Wear PPE as described in Section 8. Wipe up with towel. Treat discarded material as a respiratory hazard. Treat empty aerosol cans as flammable.

### SECTION 7 - HANDLING AND STORAGE

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Ensure good ventilation / exhaustion at the workplace. Aerosol product, do not expose to temperatures >30°C. Do not incinerate containers even when empty. Do not puncture. Do not spray on flame or other ignition sources-No smoking. Store in a cool well-ventilated place. Observe official regulations on storing packaging with pressurized containers.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION								
	NIOSH			ACGIH		OSH	4	
HAZARDOUS COMPONENTS	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	PEL ppm	PEL mg/m3
Isobutane	1000 ppm TWA as C1-C4 aliphatic gases (ACGIH), TWA 800 ppm (1900 mg/m³) (NIOSH REL), 1000 ppm (2400 mg/m³) MAK (DFG)							
Isopropanol	200 ppm TWA, 400 ppm STEL (ACGIH), 400 ppm (980 mg/m³) (OSHA PEL, NIOSH REL), 500 ppm (1225 mg/m³) (NIOSH STEL), 200 ppm (500 mg/m³) MAK (DFG)							
Carbon Black	3.5 mg/m <sup>3</sup> TWA (OSHA PEL, ACGIH TWA, NIOSH TWA); 3.5 mg/m <sup>3</sup> TWA; 0.1 mg/m <sup>3</sup> TWA (as PAH, carbon black in presence of polycyclic aromatic hydrocarbons) 1750 mg/m <sup>3</sup> IDLH (NIOSH)							

### PERSONAL PROTECTION

#### RESPIRATORY PROTECTION:

Respirators for organic vapors and dusts conforming to NIOSH/MSA or European EN-149 standards when organic vapors and dusts are generated by spraying this product in an enclosed area.

### PROTECTIVE GLOVES:

Wear chemically resistant gloves - latex, nitrile, or neoprene gloves are acceptable.

### EYE PROTECTION:

Wear properly fitted chemical safety glasses with side shields; safety goggles are also acceptable.

### OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Wear a protective rubber or plastic apron, or alternatively, a protective suit, when using this product to prevent contamination of clothing.

#### WORK / HYGIENIC PRACTICES:

Wash hands and face after working with the substance. Wear Personal Protective Equipment at all times while working with product. Wash hands and face before eating, drinking or smoking. No eating, drinking, or smoking while using product!!!.

PRODUCT NAME: **Lightning Spray® Black** PRODUCT NUMBER(S): 1-0401 (1004001) August 1, 2011 DATE: SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES APPEARANCE AND ODOR VAPOR PRESSURE Aerosol powder(black) with slight odor SPECIFIC GRAVITY (WATER = 1) VOC Volatility Aerosol **BOILING POINT / BOILING RANGE** SOLUBILITY IN WATER NA- Aerosol. Slight Solubility FLASH POINT VISCOSITY NA- Aerosol. NR FLAMMABLE LIMITS VAPOR DENSITY (AIR = 1) LEL: NR UEL: NR NR **AUTO-IGNITION TEMPERATURE** EVAPORATION RATE BUTYL ACETATE = 1) NR NR SECTION 10 - STABILITY AND REACTIVITY CONDITIONS TO AVOID: STABILITY STABLE X Avoid sources of ignition, open flame, contact with incompatible INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidizing agents, bases, amines and aldehydes. HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon Monoxide, Carbon Dioxide. organic vapors. HAZARDOUS POLYMERIZATION: CONDITIONS TO AVOID: Will not occur. None related to polymerization. SECTION 11 - TOXICOLOGICAL INFORMATION CAS# LD50 of Ingredient LC50 of Ingredient **EINECS#** Hazardous Components (Specify Species and Route) (Specify Species) 57 pph / 15 Min 75-28-5 Isobutane NR 200-857-2 (Inhalation, Rat) 67-63-0 72,600 mg/m<sup>3</sup> 5000 mg/kg Isopropanol 200-661-7 (Oral, Rat) (Inhalation, Rat) **Lowest Published Toxic** 1333-86-4 >15,400 mg/kg Carbon Black (a) Concentration: 1.66 mg/m<sup>3</sup>/7 Hour (Oral, Rat) 215-609-9 (Inhalation, Rat) **SECTION 12 - ECOLOGICAL INFORMATION** 

Slightly hazardous for water do not allow to enter drinking water supplies, other watercourses, sewers systems, groundwater, or soil. No ecological data specific to this blended product is available

# **SECTION 13 - DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD:

Treat as hazardous waste to be disposed of by a licensed waste disposal facility in compliance with all local, state, and federal regulations. DO NOT INCINERATE THIS PRODUCT! DO NOT ALLOW THE CONTAMINATION OF DRINKING WATER, FOOD, OR FEEDSTUFFS

SECTION	14 -	TRANSPORT	INFORMATION
SECTION	17-	IIVANOI UNI	

PROPER SHIPPING NAME: Aerosols, Flammable

DOT HAZARD CLASS / Pack Group: 2.1

IATA HAZARD CLASS / Pack Group: Aerosols, Flammable, n.o.s.,

2.1 UN 1950, 75kg passenger, 150kg cargo max. IMDG HAZARD CLASS: Sea class 2, UN 1950, 2.1 RID/ADR Dangerous Goods Code: UN 1950, 2.1

UN TDG Class / Pack Group: 2.1/ Aerosols, Limited Quantities.

Hazard Identification Number (HIN):

REFERENCE: **49 CFR** 

UN / NA IDENTIFICATION: **UN 1950** 

LABEL: Flammable Gas

HAZARD SYMBOLS:



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.

PRODUCT NAME: **Lightning Spray® Black** PRODUCT NUMBER(S): 1-0401 (1004001) DATE: August 1, 2011

### **SECTION 15 - REGULATORY INFORMATION**

TSCA (USA - Toxic Substance Control Act): Ingredients listed.

SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):

Acute Health: Yes Chronic Health: Yes Sudden Release of Pressure: Fire: Yes Yes

Reactive: No

313 REPORTABLE INGREDIENTS: None reportable.

CERCLA (USA - Comprehensive Response Compensation and Liability Act): No RQ's applicable.

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: WARNING: This product contains Carbon black, a chemical known to the state of California to cause cancer.

State Right to Know: Carbon: NJ,PA

CCPR (Canadian Controlled Products Regulations): Not listed.

CIDL (Canadian Ingredient Disclosure List): Carbon Black and Isopropanol are on the CIDL. CDSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): Listed on CDSL. Referenced. EINECS (European Inventory of Existing Commercial Chemical Substances):

WGK Water Quality Index:

wigh water Quality Index:	4	
RISK PHRASES:	SYMBOL(S) REQUIRED FOR EU LABEL	SAFETY PHRASES:
R12 Extremely flammable. R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R36/37/38 Irritating to eyes, respiratory system and skin. R40 Limited evidence of a carcinogenic effect. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapors may cause drowsiness and dizziness.	F+ - Flammable  Xn - Harmful	S2: Keep out of the reach of children. S3/9/14 Keep in a cool, well-ventilated place away from strong oxidizing agents, bases, amines and aldehydes. S16: Keep away from sources of ignition-No smoking. S20/21 When using do not eat, drink or smoke. S23: Do not breathe spray, vapors, or dusts. S24/25 Avoid contact with skin and eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37/39 Wear suitable gloves and eye/face protection. S51 Use only in well-ventilated areas.

# SECTION 16 - OTHER INFORMATION

Legend - N/A = Not Applicable	N/D = Not Determined N/E = Not Established I	N/R = Not Reported	
HMIS HAZARD RATINGS	HEALTH:	2	
0 = INSIGNIFICANT, 1 = SLIGHT	FLAMMABILITY:	4	
2 = MODERATE, 3 = HIGH	PHYSICAL HAZARD:	0	
4 = EXTREME	PERSONAL PROTECTIVE EQUIPMENT:	I	

REVISION SUMMARY: Revised Issue to E.U. protocols 8/1/2011, supersedes 9/30/2009 issue. LB/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 o 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.