SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **Photographic Fog**

PRODUCT NUMBER(S): PF-1 (1007724) August 1, 2011 DATE:

TRADE NAME: Mineral Oil

GENERAL USE: Laser beam visualization aid.

CHEMICAL FAMILY: Isobutane, Propane, Mineral Oil blend.

PRODUCT DESCRIPTION: Odorless, aerosol haze.

MANUFACTURED FOR: DATE PREPARED: August 1, 2011 Safariland LLC SUPERSEDES: October 1, 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

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

North America Toll Free International

SECTION 2 - HAZARDS IDENTIFICATION

ChemTel

EMERGENCY OVERVIEW

Skin, eye, and respiratory tract irritant. May cause CNS depression. May cause narcosis. Acute overexposure can cause freeze burns to the skin and eyes. Mild bronchial irritation, dermatitis from chronic exposure, mild eye irritation.

POTENTIAL HEALTH EFFECTS

INHALATION:

Dizziness, headache, disorientation, excitation, fatigue, inability to concentrate, vomiting, coughing, anesthesia, unconsciousness, death.

Capable of causing mild skin irritation. Acute overexposure can cause freeze burns to the skin. Possible dermatitis from chronic exposure.

EYES:

Capable of causing mild eye irritation. Acute overexposure can cause freeze burns to the eyes.

INGESTION:

NA as this product is an aerosol gas.

CARCINOGENICITY:

NTP? No IARC MONOGRAPHS? No. OSHA REGULATED? Nο CALIFORNIA, Prop.65? Yes CAS#98012-95-1 Paraffin Oil- carcinogen ESIS: No

SECTION 3 - HAZARDOUS INGREDIENTS Hazard RISK PHRASES % (by Weight) **EINECS#** Symbol (Full Text Section 15) Hazardous Components CAS# sobutane 75-28-5 200-857-2 F+ **R12** NR 8012-95-1 Liquid hydrocarbons oil 232-384-2 NR None None **R12 Propane** NR 74-98-6 200-827-9 F+

Hazard symbols and risk phrases based on maximum listed concentration of each hazardous ingredient. Notes:

SECTION 4 - FIRST AID MEASURES

INHALATION:

Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Flush with water for at least 15 minutes. Seek medical attention as condition warrants.

Flush with plenty of soap and water for at least 15 minutes. Seek medical aid as condition warrants.

NGESTION:

victim is alert, give 2 cups of water and induce vomiting. Get medical attention immediately.

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SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:

Flammable Aerosol Flash Point 140°F.

EXTINGUISHING MEDIA:

Dry chemical, foam, Carbon Dioxide.

FIRE FIGHTING PROCEDURES:

Wear SCBA and protective clothing. Shut off sources of ignition. Water fog or spray may be used to cool fire-exposed containers. If possible, allow fire to burn until gas flow is shut off. Wear SCBA and protective clothing. Stop flow of spray by releasing nozzle. The smoke produced is not flammable.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapors may travel back to source of ignition and flash back. Cylinders exposed to intense heat or flame may burst explosively.

HAZARDOUS COMBUSTION PRODUCTS:

Carbon Dioxide, Carbon Monoxide.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

Shut off sources of ignition. Wear safety gear. Contain spill with inert material and take up with inert, non-combustible absorbent. Use non-sparking scoop or shovel.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Do not rupture or incinerate containers. Avoid contact with and inhalation of vapors. Storage Method: Keep in a cool location away from all sources of ignition.

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	PEL ppm	PEL mg/m3
Isobutane	800				800		800	
Liquid hydrocarbons oil		5		2500 IDLH		5		5
Propane	1000				1000		1000	

PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Use a NIOSH/MSA or European EN-149 approved vapor or organic gas respirator if levels exceed exposure limits.

PROTECTIVE GLOVES:

Impervious. Nitrile or neoprene gloves, if extended exposure is anticipated.

EYE PROTECTION:

Safety glasses with side shields or chemical goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

None.

WORK / HYGIENIC PRACTICES:

Wash after handling.

SECTION O DUVSICAL AND CHEMICAL PROPERTIES				
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES				
APPEARANCE AND ODOR	VAPOR PRESSURE			
Clear, colorless gas with no odor unless odorant has been	1206 mmHg.			
added.				
VOC 100% Volatility 100%	SPECIFIC GRAVITY (WATER = 1)			
	0.35			
BOILING POINT / BOILING RANGE	SOLUBILITY IN WATER			
44.8°F	Insoluble			
FLASH POINT	VISCOSITY			
140°F	NA			
FLAMMABLE LIMITS	VAPOR DENSITY (AIR = 1)			
LEL: 1.9 UEL: 9.5	1.7			
AUTO-IGNITION TEMPERATURE	EVAPORATION RATE BUTYL ACETATE = 1)			
NR	1.4			

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SECTION 10 - STABILITY AND REACTIVITY

STABILITY STABLE X CONDITIONS TO AVOID:

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxygen, oxidizers, halogens.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Carbon Monoxide, Carbon Dioxide.

HAZARDOUS POLYMERIZATION: CONDITIONS TO AVOID:

Will not occur. 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)		
Isobutane	75-28-5	NE	inhalation ,mouse : LC50= 680,000 mg/m³/2 hours.		
	200-857-2	NE			
Liquid hydrocarbons oil	8012-95-1	Oral, mouse: LD50 = 22 gm/kg	Inhalation, rat: LC50 = 2062 ppm/4H		
	232-384-2	Oral, rat: LD50 = >24 gm/kg			
Propane	74-98-6	NE	Inhalation, mouse: LC 50= 680,000 mg/m3/2 hours		
	200-827-9	INC			

SECTION 12 - ECOLOGICAL INFORMATION

No specific data is available. Do not release into sewers or waterways.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

In accordance with all local, state, and federal regulations. Do not discharge to watercourses.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME:

Aerosols, Flammable

DOT HAZARD CLASS / Pack Group: 2.1

REFERENCE: 49CFR

UN / NA IDENTIFICATION NUMBER: UN 1950

LABEL: Flammable Gas 2.1

HAZARD SYMBOLS:

IATA HAZARD CLASS / Pack Group:

IMDG HAZARD CLASS: 2.1,Aerosol, Flammable

RID/ADR Dangerous Goods Code: UN 2037, 2.1, PGII

UN TDG Class / Pack Group: UN 1950/Aerosol Flammable

2.1/Aerosol, Flammable

Heat, sparks, open flames, other sources of ignition.

Hazard Identification Number (HIN): 20



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.

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SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act): Listed.

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

Acute Health: NO Chronic Health: NO

Fire: YES Sudden Release of Pressure: YES

Reactive: NO

313 REPORTABLE INGREDIENTS: Not Listed.

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

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: WARNING! This product contains a

chemical known to the State of

California to cause cancer. Paraffin oils

State Right To Know: Isobutane:MA,NJ,PA RI.; Paraffin Oils NJ,PA: Propane: MA, NJ, PA RI.

CCPR (Canadian Controlled Products Regulations): Not Listed

CIDL (Canadian Ingredient Disclosure List): Listed.

CDSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): Listed on CDSL. EINECS (European Inventory of Existing Commercial Chemical Substances): Referenced.

WGK Water Quality Index:	0	
RISK PHRASES:	SYMBOL(S) REQUIRED FOR EU LABEL	SAFETY PHRASES:
R11: Flammable.		S2: Keep out of the reach of children. S9: Keep container in a well-ventilated place. S16: Keep away from sources of ignition - No smoking. S33: Take precautionary measures against static discharges.
	F+ - Flammable	

SECTION 16 - OTHER INFORMATION

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N/A = Not Applicable	N/D = Not Determined	N/E = Not Estab	olished N/R =	Not Reported
HMIS HAZARD RATINGS	HEALTH:		0	0 = INSIGNIFICANT
	FLAMMABILITY:		3	1 = SLIGHT
	PHYSICAL HAZARD:		0	2 = MODERATE
	PERSONAL PROTECTIVE EQUIPME	NT:	В	3 = HIGH
				4 = EXTREME

REVISION SUMMARY:

Revised to EU protocols 8/1//2011, supersedes 10/01/2008 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.