



SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION					
PRODUCT NAME: MK4 5.5% Pepper Mace Fogger			DATE: August 15, 2008		
PRODUCT NUMBER(S): 4035					
TRADE NAME: MK4 5.5% Pepper Mace Fogger GENERAL USE: OC fogging solution CHEMICAL FAMILY: Mixed organics/HFC/OC PRODUCT DESCRIPTION: Brown Liquid, Aromatic Odor			 DEFENSE TECHNOLOGY		
MANUFACTURED FOR: Safariland LLC			DATE PREPARED: August 15, 2008 SUPERSEDES: November 1, 2006		
ADDRESS (NUMBER, STREET, P.O. BOX) 13386 International Parkway			TELEPHONE NUMBER FOR INFORMATION / Customer Service 904-741-5400		
(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 - HAZARDOUS INGREDIENTS					
Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Capsaicin	NR	404-86-4	206-969-8	None	None
D-Limonene	NR	5989-27-5	227-813-5	(+X _i)(+N)	R10, R38, R43, R50/53
1,1,1,2-Tetrafluoroethane	NR	811-97-2	213-377-0	None	None
2-Butanol	NR	78-92-2	201-158-5	(+X _i)	R10, R36/37, r67
Notes: Hazard symbols and risk phrases based on maximum listed concentration of each hazardous ingredient.					
SECTION 3 - HAZARDS IDENTIFICATION					
EMERGENCY OVERVIEW					
Note: All components are in full compliance with the Toxic Substances Control Act (TSCA) Inventory Regulations. All SARA Title III requirements have been complied with. Acute eye, skin, digestive and respiratory system irritation may occur. Vapors released at high concentrations may have an anesthetic effect and will displace air in confined spaces.					
POTENTIAL HEALTH EFFECTS					
INHALATION:					
Moderate to Severe irritation. Cough, rhinorrhea, sneezing, chest tightness, and laryngospasm may occur shortly following exposure due to irritant effects. Inhalation of large amounts may cause an anesthetic effects.					
SKIN:					
Liquid concentrate can cause serious persistent irritation.					
EYES:					
Burning sensation and irritation. Conjunctivitis is possible.					
INGESTION:					
Liquid concentrate can cause dizziness, nausea and a burning sensation. Nausea is common; vomiting occurs occasionally.					
CARCINOGENICITY:					
NTP? No		IARC MONOGRAPHS? No		OSHA REGULATED? No	
CALIFORNIA, Prop.65? No					
SECTION 4 - FIRST AID MEASURES					
INHALATION:					
Remove patient to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration.					
EYES:					
First check the victim for contact lenses and remove if present. Flush victim's eyes with water or normal saline solution for 15 to 20 minutes. Do not put any ointments, oils, or medication in the victim's eyes without specific instructions from a physician. Contact medical authorities for further instructions.					
SKIN:					
Wash with cool water & soap. Use emollient-based cleanser to prevent dermatitis.					
INGESTION:					
DO NOT INDUCE VOMITING. Chemicals have a high risk of being aspirated into the victim's lungs during vomiting . If the victim is conscious and not convulsing, give 1 or 2 glasses of water to dilute the chemical and IMMEDIATELY call a hospital or poison control center. If the victim is convulsing or unconscious, do not give anything by mouth, ensure that the victim's airway is open and lay the victim on his/her side with the head lower than the body. IMMEDIATELY transport the victim to a hospital.					

MATERIAL SAFETY DATA SHEET

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SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:

Fumes may be irritating and hazardous. Flammable vapor-air mixtures form at elevated temperatures. The use of Personal Protective Equipment is essential for fighting even small fires.

EXTINGUISHING MEDIA:

Use dry chemical, CO₂, or water fog. Water spray may be used to cool containers. Wear self-contained breathing apparatus.

FIRE FIGHTING PROCEDURES:

Use NIOSH or European EN149 approved chemical respirator. Use solvent-resistant type clothing with full jacket. Avoid absorption of product on clothing. If absorbed in clothing, remove and wash clothes at once. Use chemical-resistant goggles. Use dry chemical, CO₂, or water spray to fight surrounding fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Cool containers if exposed to fire or heat. May form highly toxic decomposition products. Pungent fumes may be emitted on exposure to temperatures above 120° F. Contents may form flammable vapor-air mixtures at temperatures above ambient. Lower temperatures increase the difficulty of getting it to ignite.

HAZARDOUS COMBUSTION PRODUCTS:

Carbon dioxide, carbon monoxide, halogenated fumes, various hydrocarbons and small amounts of phosgene.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

Extinguish all flames, suit up in personal protective equipment including a NIOSH-approved respirator, then soak up material in absorbent material and shovel into properly marked hazardous waste container for disposal at a licensed facility.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in well closed containers and keep in cool place. Do not puncture, incinerate, or store at temperatures above 120° F. When handling open containers, wear gloves and suitable gas mask for organic solvents.

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	PEL ppm	PELmg/m ³
Capsaicin								
D-Limonene	MAK: 20 ppm 110 mg/m³ sensitization of skin				NE		NE	
1,1,1,2-Tetrafluoroethane	MAK: 1000 ppm 4200 mg/m³				NE		NE	
2-Butanol	100	305	150	455	100		150	450

PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Wear positive pressure NIOSH or European EN149 approved self-contained breathing apparatus (SCBA), even for exposures of short duration.

PROTECTIVE GLOVES:

Use solvent or chemical resistant rubber gloves for handling liquid product or articles exposed to fog.

EYE PROTECTION:

Use chemical-resistant goggles at all times.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Use solvent-resistant clothing with full jacket.

WORK / HYGIENIC PRACTICES:

Avoid absorption of product on clothing. If absorbed in clothing, remove and wash clothes at once. Do not eat, drink, or smoke while handling product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR Brown Liquid, Aromatic Odor	VAPOR PRESSURE NE
VOC NA Volatility NA	SPECIFIC GRAVITY (WATER = 1) NE
BOILING POINT / BOILING RANGE NE	SOLUBILITY IN WATER Nil
FLASH POINT NE	VISCOSITY NE
FLAMMABLE LIMITS LEL: NA UEL: NA	VAPOR DENSITY (AIR = 1) NE
AUTOIGNITION TEMPERATURE NA	EVAPORATION RATE BUTYL ACETATE = 1) NE

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SECTION 10 - STABILITY AND REACTIVITY

STABILITY	STABLE	x	CONDITIONS TO AVOID: Avoid exposure to extreme heat. Do not allow vapors to concentrate, otherwise fuel/air explosion may occur.
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INCOMPATIBILITY (MATERIALS TO AVOID):
Oxidizers, Liquid Oxygen, Nitrogen tetroxide

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
Carbon dioxide, carbon monoxide, various hydrocarbons, halogenated substances and small amounts of phosgene.

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)
Capsaicin	404-86-4	oral, mouse LD50=47.2 mg/kg .	NE
	206-969-8		
D-Limonene	5989-27-5	oral mouse LD50= 5600 mg/kg. oral rat LD50=4400 mg/kg .	NE
	227-813-5		
1,1,1,2-Tetrafluoroethane	811-97-2	NE	NE
	213-377-0		
2-Butanol	78-92-2	oral rat LD50=2193 mg/kg .	inhalation, rat: LC50=48,500 mg/m ³ / 4 hours
	201-158-5		


SECTION 12 - ECOLOGICAL INFORMATION

No ecological information is presently available for this blended product. Components within this product are considered to be harmful to marine life. D-Limonene is known to bioaccumulate in fish. Product should be treated as an environmental hazard.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
 Dispose as hazardous waste in a properly permitted facility. Respiratory protection must be worn when disposing of this product. Dispose in accordance with all applicable Local, State, and Federal regulations. Incineration in is suggested.

SECTION 14 - TRANSPORT INFORMATION

<p>PROPER SHIPPING NAME: ORM-D USA Ground Only . International: UN 1950, Aerosols, Non-Flammable, Containing Toxic Gas.</p> <p>DOT HAZARD CLASS / Pack Group: ORM-D USA Ground Only</p> <p>REFERENCE: 49CFR</p> <p>UN / NA IDENTIFICATION NUMBER: ORM-D USA Ground Only. International: UN1950</p> <p>LABEL: ORM-D USA Ground only. Air= Aerosols, non-flammable/2.2. International: Flammable Gas,</p> <p>HAZARD SYMBOLS:</p> <div style="text-align: center;">  </div>	<p>IATA HAZARD CLASS / Pack Group: USA Aerosols, non-flammable, 2.2. 75Kg passenger, 150Kg Cargo. International: FORBIDDEN.</p> <p>IMDG HAZARD CLASS: 2.1,2.3</p> <p>RID/ADR Dangerous Goods Code: 2.1,2.3</p> <p>UN TDG Class / Pack Group: UN 1950, 2.1,2.3/</p> <p>Hazard Identification Number (HIN): 236</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.

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SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act): **All components are listed.**
 SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):
 Acute Health: **Yes** Chronic Health: **Yes**
 Fire: **Yes** Sudden Release of Pressure: **Yes**
 Reactive: **No**

313 REPORTABLE INGREDIENTS:

CERCLA (USA - Comprehensive Response Compensation and Liability Act):

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:



CPR (Canadian Controlled Products Regulations): Referenced.

IDL (Canadian Ingredient Disclosure List): Listed.

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

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

WGK Water Quality Index: 3

RISK PHRASES:	SYMBOL(S) REQUIRED FOR EU LABEL	SAFETY PHRASES:
<p>R36/37 : Irritating to eyes and respiratory system.</p> <p>R43 : May cause sensitization by skin contact.</p> <p>R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R67 : Vapours may cause drowsiness and dizziness.</p>	 (+Xn)-Harmful  (+N)-Harmful to the Environment	<p>S2 : Keep out of the reach of children.</p> <p>S7/9 : Keep container tightly closed and in a well ventilated place.</p> <p>S13 : Keep away from food, drink and animal feedingstuffs.</p> <p>S23 : Do not breathe vapor.</p> <p>S24/25 : Avoid contact with skin and eyes.</p> <p>S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</p> <p>S24 : Avoid contact with skin.</p> <p>S36/37 : Wear suitable protective clothing and gloves.</p> <p>S37 : Wear suitable gloves.</p> <p>S46 : If swallowed, seek medical advice immediately and show this container or label.</p> <p>S60 : This material and its container must be disposed of as hazardous waste.</p> <p>S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.</p>

SECTION 16 - OTHER INFORMATION

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

REVISION SUMMARY:
 Revised to GHS/EU protocols 08/15/2008 supersedes 11/01/06 issue. LB

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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.