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1 Identification

Product identifier

- · Trade name: First Defense® .7% MK-4 Foam OC Aerosol
- **Product code:** 56742EU (1164094)
- · Uses advised against Contact manufacturer.

· Recommended use and restriction on use

- · Recommended use: Crowd Control Device
- · Restrictions on use: Contact manufacturer/supplier

Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: Safariland, LLC 13386 International Parkway Jacksonville, FL 32218 Customer Care (800) 347-1200 Information department: Customer Care Department

Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)

2 Hazard(s) identification

· Classification of the substance or mixture

Press. Gas H280 Contains gas under pressure; may explode if heated.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Carc. 2 H351 Suspected of causing cancer.

Repr. 1 H360 May damage fertility or the unborn child.

STOT SE 3 H335 May cause respiratory irritation.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

[·] Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms:



Signal word: Danger
Hazard statements: H280 Contains gas under pressure; may explode if heated. H315 Causes skin irritation. H319 Causes serious eye irritation. H351 Suspected of causing cancer. H360 May damage fertility or the unborn child.

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Trade name: First Defense® .7% MK-4 Foam OC Aerosol (Cont'd. of page 1) H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure. · Precautionary statements: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe mist/vapors/spray. P264 Wash thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves and eye protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. P362+P364 Store in a well-ventilated place. Keep container tightly closed. P403+P233 P405 Store locked up. P410 Protect from sunlight. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. • NFPA ratings (scale 0 - 4) Health = 1 Fire = 3Reactivity = 1 · HMIS-ratings (scale 0 - 4) Health = *1 HEALTH FIRE ³ Fire = 3 REACTIVITY 1 Reactivity = 1

Chemical c	haracterization: Mixtures	
Component	ts:	
57-55-6	propylene glycol	20-40
68603-42-9	coconut diethanolamide ♦ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	5-109
8023-77-6	Oleoresin Capsicum � Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	5-109
106-94-5	1-bromopropane Flam. Liq. 2, H225 Carc. 2, H351; Repr. 1B, H360; STOT RE 2, H373 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H336	5-109

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	(Cont'd. of page 2)
56-81-5 glycerol	0.1-1%
111-42-2 2,2'-iminodiethanol Carc. 2, H351; STOT RE 2, H373 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315	0.1-1%
67-56-1 methanol Flam. Liq. 2, H225 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT SE 1, H370	0.1-1%
29118-24-9 (1E)-1,3,3,3-Tetrafluoro-1-propene Press. Gas, H280 Simple Asphyxiant	
Additional information: For the wording of the listed Hazard Statements refer to section	16.

4 First-aid measures

Description of first aid measures	
· General information:	
Immediately remove any clothing soiled by the product.	
Take affected persons out into the fresh air.	
Do not leave affected persons unattended.	
Provide oxygen treatment if affected person has difficulty breathing.	
· After inhalation:	
Supply fresh air; consult doctor in case of complaints.	
Provide oxygen treatment if affected person has difficulty breathing.	
In case of irregular breathing or respiratory arrest provide artificial respiration.	
After skin contact:	
Immediately rinse with water.	
Clean with water and soap.	
If skin irritation continues, consult a doctor.	
· After eye contact:	
Remove contact lenses if worn.	
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.	
After swallowing:	
Rinse out mouth and then drink plenty of water.	
Do not induce vomiting; immediately call for medical help.	
Most important symptoms and effects, both acute and delayed:	
Coughing	
Nausea	
Breathing difficulty	
Cramp	
Thirst	
Dizziness	
Irritating to eyes, respiratory system and skin.	
Disorientation	
· Danger:	
Danger of impaired breathing.	
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May damage fertility or the unborn child. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Indication of any immediate medical attention and special treatment needed: Medical supervision for at least 48 hours. Monitor circulation, possible shock treatment. Treat skin and mucous membrane with antihistamine and corticoid preparations.

5 Fire-fighting measures

• Extinguishing media

- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- For safety reasons unsuitable extinguishing agents: None.

· Special hazards arising from the substance or mixture

Danger of receptacles bursting because of high vapor pressure if heated.

Formation of toxic gases is possible during heating or in case of fire.

- [•] Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

[•] Additional information:

Cool endangered receptacles with water spray.

No relevant information available.

6 Accidental release measures

[•] Personal precautions, protective equipment and emergency procedures

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTEL AT 1-800-255-3924. Spills of this material should be handled carefully. Do not subject materials to mechanical shock or extreme heat. A spill of this material will normally not require emergency response team capabilities.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

- Environmental precautions No special measures required.
- Methods and material for containment and cleaning up Allow to evaporate.

Clean the affected area carefully; suitable cleaners are:

Warm water and cleansing agent

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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7 Handling and storage

[.] Handling

· Precautions for safe handling:

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

Information about protection against explosions and fires: No special measures required.

• Conditions for safe storage, including any incompatibilities

· Storage

• Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurized containers.

Avoid storage near extreme heat, ignition sources or open flame.

Provide ventilation for receptacles.

· Information about storage in one common storage facility: Store away from foodstuffs.

· Further information about storage conditions:

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

• Specific end use(s) No relevant information available.

8 Exposure controls/personal protection Control parameters			
 Components w 	ith limit values that require monitoring at the workplace:		
57-55-6 propyle	ene glycol		
WEEL (USA)	Long-term value: 10 mg/m ³		
EV (Canada)	Long-term value: 155* 10** mg/m³, 50* ppm *vapour and aerosol;**aerosol only		
106-94-5 1-bror	106-94-5 1-bromopropane		
TLV (USA)	Long-term value: 0.5 mg/m³, 0.1 ppm		
EL (Canada)	Long-term value: 10 ppm R		
EV (Canada)	V (Canada) Long-term value: 10 ppm		
LMPE (Mexico)	LMPE (Mexico) Long-term value: 10 ppm		
56-81-5 glycerol			
PEL (USA)	Long-term value: 15* 5** mg/m³ mist; *total dust **respirable fraction		
TLV (USA)	TLV withdrawn-insufficient data human occup. exp.		
EL (Canada)	Long-term value: 10* 3** mg/m³ *mist; **mist, respirable		
EV (Canada)	Long-term value: 10 mg/m³		
LMPE (Mexico)	Long-term value: 10 mg/m³		
<u> </u>	(Cont'd. on page 6		

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	(Cont'd. of page 5)		
	111-42-2 2,2'-iminodiethanol		
REL (USA)	Long-term value: 15 mg/m³, 3 ppm		
TLV (USA)	Long-term value: 1* mg/m³, 0.2* ppm Skin; *inhalable fraction and vapor		
EL (Canada)	Long-term value: 2 mg/m³ Skin, IARC 2B		
EV (Canada)	Long-term value: 2 mg/m³		
LMPE (Mexico)	Long-term value: 2 mg/m³ A3, PIEL		
67-56-1 methan	nol		
PEL (USA)	Long-term value: 260 mg/m ³ , 200 ppm		
REL (USA)	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin		
TLV (USA)	Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI		
EL (Canada)	Short-term value: 250 ppm Long-term value: 200 ppm Skin		
EV (Canada)	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin		
LMPE (Mexico)	LMPE (Mexico) Short-term value: 250 ppm Long-term value: 200 ppm PIEL, IBE		
· Ingredients wit	h biological limit values:		
67-56-1 methan	nol		
Time	ng/L lium: urine e: end of shift ameter: Methanol (background, nonspecific)		
General protec The usual preca Keep away from Immediately rem Wash hands bet Do not inhale ga Avoid contact wi Engineering co Breathing equi	ctive equipment: tive and hygienic measures: autionary measures for handling chemicals should be followed. n foodstuffs, beverages and feed. nove all soiled and contaminated clothing. fore breaks and at the end of work. ases / fumes / aerosols. ith the eyes and skin. ontrols: Provide adequate ventilation.		

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For spills, respiratory protection may be advisable.

· Protection of hands:

Gloves not required under normal conditions of use.

Wear protective gloves to handle contents of damaged or leaking units.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Safety glasses

· Body protection:

Not required under normal conditions of use.

Protection may be required for spills.

· Limitation and supervision of exposure into the environment

No relevant information available.

Risk management measures

See Section 7 for additional information.

No relevant information available.

Information on basic physical and chemical properties		
Appearance:		
Form:	Aerosol	
Color:	Whitish	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	Not determined.	
Flash point:	Not applicable - does not support sustained combustion.	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	

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· Danger of explosion:	Product does not present an explosion hazard.		
· Explosion limits			
Lower:	Not determined.		
Upper:	Not determined.		
· Vapor pressure:	Not determined.		
· Density:	Not determined.		
· Relative density:	Not determined.		
· Vapor density:	Not determined.		
• Evaporation rate:	Not applicable.		
· Solubility in / Miscibility with			
Water:	Fully miscible.		
· Partition coefficient (n-octanol/wate	· Partition coefficient (n-octanol/water): Not determined.		
· Viscosity			
Dynamic:	Not determined.		
Kinematic:	Not determined.		
[•] Other information	No relevant information available.		

10 Stability and reactivity

• Reactivity: No relevant information available.

- · Chemical stability:
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- [•] Possibility of hazardous reactions
- Toxic fumes may be released if heated above the decomposition point.
- **Conditions to avoid** No relevant information available.
- · Incompatible materials No relevant information available.
- · Hazardous decomposition products

Under fire conditions only:

Danger of toxic fluorine based pyrolysis products.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimates)			
Oral		>10000 mg/kg (rat)	
	LD50	>10000 mg/kg (mouse)	
Inhalative	LC50/4h	>100 mg/l (rat)	

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			(Cont'd of page 9)
8023-77-6 O	leoresi	n Cansicum	(Cont'd. of page 8)
		3000 mg/kg (rat)	
		>2500 mg/kg (mouse)	
106-94-5 1-k			
	•	253 mg/l (rat)	
· Primary irrit			
· On the skin	: Irritant	to skin and mucous membranes.	
• On the eye:			
		d on available data, the classification criteria are not met.	
•		Agency for Research on Cancer): nts are listed.	
	<u> </u>		
•		cology Program):	
106-94-5 1-			R
•	-	ional Safety & Health Administration):	
	•	nts are listed.	
· Probable ro	oute(s) c	f exposure:	
Inhalation. Eye contact.			
Skin contact			
		e toxicity, irritation and corrosivity): Irritating to eyes, respiratory	svstem and skin.
		icity: Danger of very serious irreversible effects.	,
		nogenity, mutagenicity and toxicity for reproduction)	
Carc. 2, Rep			
		icity: Based on available data, the classification criteria are not met uspected of causing cancer.	I.
	ve toxic	ity: May damage fertility or the unborn child.	
· STOT-single	e expos	ure: May cause respiratory irritation.	
	• STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.		
		Based on available data, the classification criteria are not met.	·
12 Ecologica	al infor	mation	
• Toxicity			
Aquatic tox	icity		
106-94-5 1-b	-	ropane	
	-	corhynchus mykiss)	
· Persistenc	e and o	degradability No relevant information available.	
Bioaccumu	lative p	otential: No relevant information available.	
		relevant information available.	
		jical information	
· General not			
system.		red product or large quantities of it to reach ground water, water	course of sewage
<i>cyctom</i> .			(Cont'd. on page 10)

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[•] Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· Other adverse effects No relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

[·] Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number	
DOT, ADR, IMDG, IATA	UN1950
UN proper shipping name	
DOT	Aerosols, Non-Flammable
ADR	1950 AEROSOLS
IMDG, IATA	AEROSOLS
Transport hazard class(es)	
DOT	
	
Class	2 Gases
Label	2.2
ADR	
<u></u>	

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	(Cont'd. of page 10
Label	2.2
IMDG, IATA	
	
Class	2 Gases
Label	2.2
Packing group	Aerosols are not assigned a packing group.
Environmental hazards	
Marine pollutant:	No
Special precautions for user	Warning: Gases
Danger code (Kemler):	20
EMS Number:	F-D,S-U
Transport in bulk according to Annex	ll of
MARPOL73/78 and the IBC Code	Not applicable.

Safety, health and environmental regulations/legislation sy mixture United States (USA) SARA	pecific for the substance
Section 302 (extremely hazardous substances):	
None of the ingredients are listed.	
Section 355 (extremely hazardous substances):	
None of the ingredients are listed.	
Section 313 (Specific toxic chemical listings):	
None of the ingredients are listed.	
TSCA (Toxic Substances Control Act)	
All ingredients are listed.	
Proposition 65 (California)	
Chemicals known to cause cancer:	
68603-42-9 coconut diethanolamide	
106-94-5 1-bromopropane	
111-42-2 2,2'-iminodiethanol	
Chemicals known to cause reproductive toxicity for females:	
106-94-5 1-bromopropane	

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2B

2B

• Chemicals known to cause reproductive toxicity for males:

106-94-5 1-bromopropane

· Chemicals known to cause developmental toxicity:

106-94-5 1-bromopropane

67-56-1 methanol

· Carcinogenic categories

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

68603-42-9 coconut diethanolamide

111-42-2 2,2'-iminodiethanol

NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

Canadian Domestic Substances List (DSL):

All ingredients are listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision April 05, 2017 / -

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health Press. Gas: Gases under pressure – Compressed gas Press. Gas: Gases under pressure - Liquefied gas Flam. Liq. 2: Flammable liquids - Category 2 Acute Tox. 3: Acute toxicity - Category 3 Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Carc. 2: Carcinogenicity – Category 2 Carc. 2: Carcinogenicity – Category 2 Repr. 1: Reproductive toxicity – Category 1 Repr. 1B: Reproductive toxicity – Category 1B STOT SE 1: Specific target organ toxicity (single exposure) - Category 1 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

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· Sources

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SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com