# Safety Data Sheet acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 09, 2018

Revision: October 09, 2018

1 Identification	
· Product identifier	
<ul> <li>Trade name: First Defense® 1.3% MK-2 Foam OC Aerosol First Defense® 1.3% MK-3 Foam OC Aerosol First Defense® 1.3% MK-4 Foam OC Aerosol First Defense® 1.3% MK-9 Foam OC Aerosol</li> </ul>	
Product code: 56822 (1030657): MK-2 56842 (1091497): MK-3 56832 (1030672): MK-4 56792 (1030675): MK-9	
<ul> <li>Recommended use and restriction on use</li> <li>Recommended use: Crowd Control Device</li> <li>Restrictions on use: Contact manufacturer/supplier</li> </ul>	
<ul> <li>Details of the supplier of the Safety Data Sheet</li> <li>Manufacturer/Supplier: Safariland, LLC</li> <li>13386 International Parkway</li> <li>Jacksonville, FL 32218</li> <li>Customer Care (800) 347-1200</li> </ul>	
• Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)	
2 Hazard(s) identification	
<ul> <li>Classification of the substance or mixture</li> <li>Press. Gas H280 Contains gas under pressure; may explode if heated.</li> <li>Skin Irrit. 2 H315 Causes skin irritation.</li> <li>Eye Irrit. 2A H319 Causes serious eye irritation.</li> <li>STOT SE 3 H335 May cause respiratory irritation.</li> </ul>	
<ul> <li>Label elements</li> <li>GHS label elements</li> <li>The product is classified and labeled according to the Globally Harmonized</li> <li>Hazard pictograms:</li> </ul>	d System (GHS).
GHS04 GHS07	
<ul> <li>Signal word: Warning</li> <li>Hazard statements: H280 Contains gas under pressure; may explode if heated. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.</li> </ul>	
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#### (Cont'd. of page 1) · Precautionary statements: P233 Keep container tightly closed. P261 Avoid breathing mist, vapors, or spray. Wash thoroughly after handling. P264 P271 Use only outdoors or in a well-ventilated area. Wear protective gloves and eye protection. P280 P302+P352 If on skin: Wash with plenty of 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. Call a poison center/doctor if you feel unwell. P312 P332+P313 If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. P362+P364 If eye irritation persists: Get medical advice/attention. P337+P313 P405 Store locked up. P410+P403 Protect from sunlight. Store in a well-ventilated place. Dispose of contents/container in accordance with local/regional/national/international P501 regulations. · Additional information: Pressurized container: May burst if heated. **Other hazards** There are no other hazards not otherwise classified that have been identified.

# 3 Composition/information on ingredients

#### · Chemical characterization: Mixtures

Componen	ts:	
811-97-2	Norflurane	10-20%
	Press. Gas, H280 Simple Asphyxiant	
7727-37-9		10-20%
	Press. Gas, H280 Simple Asphyxiant	
29118-24-9	(1E)-1,3,3,3-Tetrafluoro-1-propene	10-20%
	Simple Asphyxiant	-
57-55-6	Propylene glycol	10-20%
112-34-5	2-(2-butoxyethoxy)ethanol	10-20%
	🚯 Eye Irrit. 2A, H319	
8023-77-6	Oleoresin Capsicum	<10%
	1 Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
151-21-3	Sodium dodecyl sulphate	<5.0%
	🔶 Eye Dam. 1, H318	
	🔥 Acute Tox. 4, H302; Skin Irrit. 2, H315	
· Additional		
Propellant w	<i>v</i> ill be 1234-ze, norflurane, nitrogen or mixture of these propellants.	
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For the wording of the listed Hazard Statements, refer to section 16. For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

#### 4 First-aid measures

### Description of first aid measures · After inhalation: Supply fresh air; consult doctor in case of complaints. Provide oxygen treatment if affected person has difficulty breathing. · After skin contact: Immediately wash with water and soap and rinse thoroughly. Seek medical treatment in case of complaints. · After eve contact: Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. After swallowing: Unlikely route of exposure. 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 Irritating to eyes, respiratory system and skin. Gastric or intestinal disorders when ingested. · Danger: No relevant information available. · Indication of any immediate medical attention and special treatment needed: If necessary oxygen respiration treatment. If medical advice is needed, have product container or label at hand. 5 Fire-fighting measures · Extinguishing media • Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

The product is not flammable.

• For safety reasons unsuitable extinguishing agents: None.

• Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

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

# <sup>•</sup> Advice for firefighters

#### • Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

• Additional information: Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

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#### 6 Accidental release measures

# Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

For large spills, wear protective clothing.

#### • Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

#### Methods and material for containment and cleaning up

Allow to evaporate.

Absorb liquid components with liquid-binding material.

Send for recovery or disposal in suitable receptacles.

#### 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.

#### 7 Handling and storage

#### · Handling

· Precautions for safe handling:

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

Keep out of reach of children.

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

· Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

- · 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 v	vith limit values that require monitoring at the workplace:
7727-37-9 nitro	ngen
TLV (USA)	withdrawn TLV, see App. F; simple asphyxiant
EL (Canada)	Simple asphyxiant
	(Cont'd. on page 5)

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LMPE (Mexico)       Asfixiante simple         811-97-2 Norflurane       WEEL (USA)         Long-term value: 1000 ppm       57-55-6 Propylene glycol         WEEL (USA)       Long-term value: 10 mg/m³         EV (Canada)       Long-term value: 155* 10** mg/m³, 50* ppm         *vapour and aerosol;**aerosol only         112-34-5 2-(2-butoxyethoxy)ethanol         TLV (USA)       Long-term value: 67.5* mg/m³, 10* ppm			(Cont'd. of page 4
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TLV (USA) Long-term value: 67.5* mg/m <sup>3</sup> , 10* ppm	112-34-5 2-(2-	butoxyethoxy)ethanol	
	TLV (USA)		
*Inhalable fraction and vapor		*Inhalable fraction and vapor	
General protective and hygienic measures:			
<ul> <li>General protective and hygienic measures:</li> <li>The usual precautionary measures for handling chemicals should be followed.</li> <li>Keep away from foodstuffs, beverages and feed.</li> </ul>	Reep away Iro	in loodstulls, bevelages and leed.	

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

- · Engineering controls: Provide adequate ventilation.
- Breathing equipment: Suitable respiratory protective device recommended.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. **Eye protection:** 



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- · Body protection: Protective work clothing
- Limitation and supervision of exposure into the environment

No relevant information available.

	vsical and chemical properties	
· Appearance: Form:	Aerosol	
Color:	Amber colored	
· Odor:	Pungent	
· Odor threshold:	Not determined.	

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		(Cont'd. of page
pH-value:	Not determined.	
Melting point/Melting range:	Not applicable, as aerosol.	
Boiling point/Boiling range:	Not applicable, as aerosol.	
Flash point:	Not applicable, as aerosol.	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Danger of explosion:	Not determined.	
Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
Oxidizing properties:	Not determined.	
Vapor pressure:	Not determined.	
Density:		
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not applicable.	
Solubility in / Miscibility with		
Water:	Partly miscible.	
Partition coefficient (n-octanol/wa	ter): 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: Stable under normal temperatures and pressures.

Thermal decomposition / conditions to be avoided:

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

Possibility of hazardous reactions

Toxic fumes may be released if heated above the decomposition point.

· Conditions to avoid Excessive heat.

· Incompatible materials No relevant information available.

#### · Hazardous decomposition products

Under fire conditions only:

Possible in traces.

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· Acute t	ation on toxicological effects oxicity:
	0 values that are relevant for classification:
8023-77	7-6 Oleoresin Capsicum
Oral	LD50 3,000 mg/kg (rat)
Dermal	LD50 >2,500 mg/kg (mouse)
151-21-	3 Sodium dodecyl sulphate
Oral	LD50 1,288 mg/kg (rat)
· Primary	y irritant effect:
	skin: Irritant to skin and mucous membranes.
	<b>eye:</b> Irritating effect. <b>zation:</b> Based on available data, the classification criteria are not met.
	nternational Agency for Research on Cancer):
•	f the ingredients are listed.
•	ational Toxicology Program):
	f the ingredients are listed.
	Ca (Occupational Safety & Health Administration):
	f the ingredients are listed.
	le route(s) of exposure:
Inhalation Eye cor	
Skin co	
	effects (acute toxicity, irritation and corrosivity): Irritating to eyes, respiratory system and skin
	ed dose toxicity: From product as supplied: None.
	ell mutagenicity: Based on available data, the classification criteria are not met.
	<b>ogenicity:</b> Based on available data, the classification criteria are not met. Iuctive toxicity: Based on available data, the classification criteria are not met.
Reprou	single exposure: May cause respiratory irritation.
	epeated exposure: Based on available data, the classification criteria are not met.
STOT-s	
· STOT-s · STOT-r	ion hazard: Based on available data, the classification criteria are not met.

<sup>·</sup> Toxicity

- · Aquatic toxicity No relevant information available.
- Persistence and degradability No relevant information available.
- **Bioaccumulative potential:** No relevant information available.
- Mobility in soil: No relevant information available.

# Additional ecological information

· General notes:

(Cont'd. on page 8)

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(Cont'd. of page 7) Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Negative ecological effects are, according to the current state of knowledge, not expected.

#### Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- vPvB: Not applicable.
- · Other adverse effects No relevant information available.

#### 13 Disposal considerations

#### <sup>·</sup> Waste treatment methods

#### · Recommendation:

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.

#### Uncleaned packagings

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

UN-Number		
DOT, ADR, IMDG, IATA	UN1950	
UN proper shipping name		
DOT	Aerosols	
ADR, IMDG	AEROSOLS	
IATA	Aerosols, non-flammable	
Transport hazard class(es)		
DOT		
<del>\</del>		
Class	2.2	
Label	2.2	
ADR		
<b>~</b>		
<b>V</b>		
Class	2 5A	
Label	2.2	

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	(Cont'd. of pag
IMDG, IATA	
<del></del>	
Class	2
Label	2.2
Packing group	Aerosols are not assigned a packing group.
Environmental hazards	
Marine pollutant:	No
Special precautions for user	Warning: Gases
EMS Number:	F-D,S-Ŭ
Transport in bulk according to Annex	( II of
MARPOL73/78 and the IBC Code	Not applicable.

### 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
United States (USA)
SARA
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):

112-34-5
2-(2-butoxyethoxy)ethanol

TSCA (Toxic Substances Control Act)

All ingredients are listed.

Proposition 65 (California)

Chemicals known to cause cancer:

None of the ingredients are listed.

• Chemicals known to cause developmental toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

(Cont'd. on page 10)

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None of the ingredients are listed.

**EPA** (Environmental Protection Agency):

None of the ingredients are listed.

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

Canadian Domestic Substances List (DSL) (Substances not listed.):

All ingredients listed on DSL or NDSL.

#### 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.

#### · 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistant, Bio-accumulable, Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health Administration Press. Gas: Gases under pressure - Compressed gas 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 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers 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