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

Printing date: October 09, 2018

Revision: October 09, 2018

| Inning date. October 09, 2010 | Revision: October 09, 201 |
|--|---------------------------|
| 1 Identification | |
| | |
| Product identifier | |
| Trade name: First Defense® .4% MK-3 Foam OC Aeroso First Defense® .4% MK-4 Foam OC Aeroso First Defense® .4% MK-9 Foam OC Aeroso Product code: | 1 |
| 56332 (1093470): MK-3 56342 (1093471): MK-4 56392 (1030664): MK-9 | |
| 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 | |
| Emergency telephone number: ChemTel Inc. | |
| (800)255-3924 (North America) +1 (813)248-0585 (International) | |
| | |
| +1 (813)248-0585 (International) | |
| +1 (813)248-0585 (International) 2 Hazard(s) identification | ode if heated. |
| +1 (813)248-0585 (International) 2 Hazard(s) identification · Classification of the substance or mixture | ode if heated. |
| +1 (813)248-0585 (International) 2 Hazard(s) identification Classification of the substance or mixture Press. Gas H280 Contains gas under pressure; may explesion Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. | ode if heated. |
| +1 (813)248-0585 (International) 2 Hazard(s) identification Classification of the substance or mixture Press. Gas H280 Contains gas under pressure; may explose Skin Irrit. 2 H315 Causes skin irritation. | ode if heated. |
| +1 (813)248-0585 (International) 2 Hazard(s) identification Classification of the substance or mixture Press. Gas H280 Contains gas under pressure; may expless Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. Label elements | ode if heated. |
| +1 (813)248-0585 (International) 2 Hazard(s) identification Classification of the substance or mixture Press. Gas H280 Contains gas under pressure; may expless Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. | |
| +1 (813)248-0585 (International) 2 Hazard(s) identification Classification of the substance or mixture Press. Gas H280 Contains gas under pressure; may explesion limits of the substance or mixture Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. Label elements GHS label elements The product is classified and labeled according to the Global | |
| +1 (813)248-0585 (International) 2 Hazard(s) identification Classification of the substance or mixture Press. Gas H280 Contains gas under pressure; may explesion solution. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. Label elements GHS label elements The product is classified and labeled according to the Global Hazard pictograms: GHS04 GHS07 | |
| +1 (813)248-0585 (International) 2 Hazard(s) identification Classification of the substance or mixture Press. Gas H280 Contains gas under pressure; may explesion like in the substance or mixture pressure; may explesion like in the substance or mixture pressure; may explesion like iteration. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. Label elements GHS label elements The product is classified and labeled according to the Globa Hazard pictograms: GHS04 GHS07 Signal word: Warning Hazard statements: | |
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| | (Cont'd. of page 1) |
|-----------------|---|
| P261 | Avoid breathing mist, vapors, or 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 water. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P3 | 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, |
| | if present and easy to do. Continue rinsing. |
| P312 | Call a poison center/doctor if you feel unwell. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P405 | Store locked up. |
| P410+P403 | Protect from sunlight. Store in a well-ventilated place. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international |
| | regulations. |
| Additional info | prmation: Pressurized container: May burst if heated. |
| Other hazard | s 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% |
| | 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 | nformation: | |

Additional information:

Propellant will be 1234-ze, norflurane, nitrogen or mixture of these propellants.

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.

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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 eye 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.

- 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.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation.

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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:

8 Exposure controls/personal protection

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

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

| · Control paran | neters |
|-----------------|---|
| · Components w | vith limit values that require monitoring at the workplace: |
| 7727-37-9 nitro | gen |
| TLV (USA) | withdrawn TLV, see App. F; simple asphyxiant |
| EL (Canada) | Simple asphyxiant |
| LMPE (Mexico) | Asfixiante simple |
| 811-97-2 Norflu | irane |
| WEEL (USA) | Long-term value: 1000 ppm |
| 57-55-6 Propyle | ene glycol |
| WEEL (USA) | Long-term value: 10 mg/m ³ |
| | (Cont'd. on page |

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| | (Cont'd. of page |
|------------------|--|
| 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 |
| | *Inhalable fraction and vapor |
| · Exposure co | ntrols |
| | ctive and hygienic measures: |
| | autionary measures for handling chemicals should be followed. |
| | m foodstuffs, beverages and feed. |
| | move all solled and contaminated clothing. |
| | efore breaks and at the end of work. |
| · Engineering c | ontrols: Provide adequate ventilation. |
| · Breathing equ | ipment: Suitable respiratory protective device recommended. |
| · Protection of | hands: |
| | tive gloves erial has to be impermeable and resistant to the product/ the substance/ the preparation. |
| · Eye protection | n: |
| Safety | glasses |
| Follow relevant | t national guidelines concerning the use of protective eyewear. |
| | on: Protective work clothing |
| | id supervision of exposure into the environment |
| | ormation available. |
| | |
| 9 Physical an | d chemical properties |
| - | · · |
| · Information | on basic physical and chemical properties |

| Appearance: Form: Color: Odor: Odor threshold: | Aerosol Amber colored Pungent Not determined. | |
|---|---|------------------|
| pH-value: Melting point/Melting range: Boiling point/Boiling range: | Not determined. Not applicable, as aerosol. Not applicable, as aerosol. | |
| · Flash point: | Not applicable, as aerosol. | |
| · Flammability (solid, gaseous): | Not applicable. | |
| · Auto-ignition temperature: | Not determined. | |
| | | (Cont'd. on page |

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| | | (Cont'd. of page |
|-------------------------------------|------------------------------------|------------------|
| 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 | ater): 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.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

8023-77-6 Oleoresin Capsicum

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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 irritant effect:

· On the skin: Irritant to skin and mucous membranes.

· On the eye: Irritating effect.

• Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

• NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Inhalation.

Eye contact.

Skin contact.

- Acute effects (acute toxicity, irritation and corrosivity): Irritating to eyes, respiratory system and skin.
- **Repeated dose toxicity:** From product as supplied: None.
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.

• Carcinogenicity: Based on available data, the classification criteria are not met.

- \cdot Reproductive toxicity: Based on available data, the classification criteria are not met.
- · STOT-single exposure: May cause respiratory irritation.
- · STOT-repeated exposure: Based on available data, the classification criteria are not met.

· Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

[·] 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:

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.

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13 Disposal considerations

[·] 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 | |
| | |
| | |
| | |
| · Class | 2.2 |
| ·Label | 2.2 |
| · ADR | |
| | |
| | |
| | |
| · Class | 2 5A |
| · Label | 2.2 |
| · IMDG, IATA | |
| | |
| | |
| | |
| · Class | 2 |
| | 2.2 |
| · Packing group | Aerosols are not assigned a packing group. |

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| Environmental hazards | | |
|------------------------------|----------------|--|
| Marine pollutant: | No | |
| Special precautions for user | Warning: Gases | |
| EMS Number: | F-D,S-Ŭ | |

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:

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.

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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:

| 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 intern | et/registry/substreg/home/ |
| | et/registry/substreg/fielite/ |
| overview/home.do) | 、 、 |
| Website, Chemical Abstracts Registry, American Chemical Society (www.cas.o | |
| 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., Kla | asen, Curtis D., ed., ISBN: |
| 978-0-07-176923-5. | |
| | |
| Safety Data Sheets, Individual Manufacturers | |
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