Safety Data Sheet

according to Australia WHS and NZ HSNO Regulations

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1 Identification of the substance/mixture and of the company/undertaking

· **Product identifier**

· **Trade name: First Defense® Inert Training Unit MK-3 Foam Aerosol**
First Defense® Inert Training Unit MK-9 Foam Aerosol

· **Product code:**
5136VIC (1164242): MK-3
5196VIC (1164243): MK-9

· **Recommended use and restriction on use**
· **Recommended use:** Training device.
· **Restrictions on use:** No further relevant information available.

· **Details of the supplier of the Safety Data Sheet**
· **Manufacturer/Supplier:**
Safariland, LLC
13386 International Parkway
Jacksonville, FL 32218
Customer Care (800) 347-1200
· **Distributor:**
Grycol International Pty Ltd
344 Botany Rd
Alexandria, NSW 2015
+61 02 9698 8725
sales@grycol.com.au
· **Further information obtainable from:** Customer Care Department

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

Emergencies within Australia - 131126 (NSW Poison Control Centre)
Emergencies within New Zealand - 0800 764 766 (National Poison Control Centre)

2 Hazards identification

· **Classification (Australia, New Zealand)**
Australia NOHSC – Hazardous Substance (Classified according to Worksafe Australia NOHSC 2011 National Code of Practice)
New Zealand HSNO - Hazardous (Classified according to the Minimum Degrees of Hazard Regulations 2001)
Australia ADG – Dangerous Goods (Classified according to National Transport Commision Australian Dangerous Goods Code)
· **Hazard statements (New Zealand HSNO Classification)**
Compressed Gas - required under Land Transport Rule 45001/1: Dangerous Goods 2005.
HSNO 6.4A Eye Irrit. 2A H319 Causes serious eye irritation.
HSNO 6.3B Skin Irr. 3 H316 Causes mild skin irritation.

· **Label elements**
· **Hazard pictograms**

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GHS04 GHS07

· **Signal word** Warning
· **Hazard statements**
The following Hazard Statements are only applicable to New Zealand, and are not applicable to Australia: H316.
H280 Contains gas under pressure; may explode if heated.
H316 Causes mild skin irritation.
H319 Causes serious eye irritation.
· **Precautionary statements**
The following precautionary statements are only applicable to New Zealand, and are not applicable to Australia: P264, P332+P313.

P264	Wash thoroughly after handling.
P280	Wear eye protection / face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P410+P403	Protect from sunlight. Store in a well-ventilated place.

· **Other hazards** There are no other hazards not otherwise classified that have been identified.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterisation: Mixtures**

· **Components:**

CAS: 57-55-6 EINECS: 200-338-0	Propylene glycol	10-30%
CAS: 112-34-5 EINECS: 203-961-6	2-(2-butoxyethoxy)ethanol Eye Irrit. 2A, H319 Acute Tox. 5, H303; Acute Tox. 5, H313; Skin Corr. 3, H316	10-30%
CAS: 7727-37-9 EINECS: 231-783-9	nitrogen Press. Gas C, H280	<30%
CAS: 811-97-2 EINECS: 212-377-0	Norflurane Press. Gas C, H280	<30%
CAS: 29118-24-9 ELINCS: 471-480-0	(1E)-1,3,3,3-Tetrafluoro-1-propene	<30%
CAS: 151-21-3 EINECS: 205-788-1	Sodium dodecyl sulphate Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315	<10%

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	Aquatic Chronic 3, H412	

· **Additional information:**
Propellant will be 1234-ze, norflurane, nitrogen or mixture of these propellants.
For the listed ingredient(s), the identity and/or exact percentages are being withheld as a trade secret.
For the wording of the listed Hazard Statements refer to section 16.

4 First aid measures

· **Description of first aid measures**
· **General information:** No special measures required.
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:**
Immediately rinse with water.
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:**
Unlikely route of exposure.
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
· **Most important symptoms and effects, both acute and delayed**
Causes eye irritation.
Causes mild skin irritation.
· **Hazards:** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
If medical advice is needed, have product container or label at hand.

5 Firefighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
· **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 vapour pressure when heated.
· **Advice for firefighters**
· **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.

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Ensure adequate ventilation

· **Environmental precautions** No special measures required.

· **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.

· **Information about fire - and explosion protection:**
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
Do not spray onto a naked flame or any incandescent material.

· **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 pressurised 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 further relevant information available.

8 Exposure controls/personal protection

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**	
57-55-6 Propylene glycol	
NES (Australia)	Long-term value: 474* 10** mg/m³, 150* ppm *vapour&particluates;**particulates only
WES (Australia)	Long-term value: 474* 10** mg/m³, 150* ppm *vapour&particluates;**particulates only
WEEL (USA)	Long-term value: 10 mg/m³
WES (New Zealand)	Long-term value: 474* 10** mg/m³, 150* ppm *vapour, particulates; **particulates only
112-34-5 2-(2-butoxyethoxy)ethanol	
TLV (USA)	Long-term value: 67.5* mg/m³, 10* ppm

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	*Inhalable fraction and vapor
7727-37-9 nitrogen	
NES (Australia)	Asphyxiant
WES (Australia)	Asphyxiant
TLV (USA)	withdrawn TLV, see App. F; simple asphyxiant
WES (New Zealand)	Simple asphyxiant
811-97-2 Norflurane	
NES (Australia)	Long-term value: 4240 mg/m³, 1000 ppm
WES (Australia)	Long-term value: 4240 mg/m³, 1000 ppm
WEEL (USA)	Long-term value: 1000 ppm
WES (New Zealand)	Long-term value: 1000 ppm

· **Exposure controls**
· **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
· **Respiratory protection:** Not required under normal conditions of use.
· **Protection of hands:**
Gloves not required under normal conditions of use.
Wear protective gloves to handle contents of damaged or leaking units.
· **Eye protection:**


Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.
· **Body protection:** Not required under normal conditions of use.
· **Limitation and supervision of exposure into the environment:**
No further relevant information available.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**
· **Appearance**

Form:	Aerosolised liquid with compressed gas in cylinders
Colour:	Whitish
· **Odour:**	Characteristic
· **Odour threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Melting point/freezing point:**	Not applicable, as aerosol.
· **Initial boiling point and boiling range:**	Not applicable, as aerosol.
· **Flash point:**	Not applicable, as aerosol.

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· **Flammability (solid, gas):**	Not applicable.
· **Auto/Self-ignition temperature:**	Not determined.
· **Decomposition temperature:**	Not determined.
· **Explosive properties:**	Not determined.
· **Explosion limits**	
Lower:	Not determined.
Upper:	Not determined.
· **Oxidising properties**	Not determined.
· **Vapour pressure:**	Not determined.
· **Density:**	
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not applicable.
· **Solubility in / Miscibility with water:**	Fully miscible.
· **Partition coefficient: n-octanol/water:**	Not determined.
· **Viscosity**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability** Stable under normal temperatures and pressures.
· **Thermal decomposition / conditions to be avoided:**
Danger of receptacles bursting because of high vapour pressure when heated.
· **Possibility of hazardous reactions**
Toxic fumes may be released if heated above the decomposition point.
Reacts with strong alkali.
Reacts with strong oxidising agents.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials** No further relevant information available.
· **Hazardous decomposition products**
Under fire conditions only:
Danger of toxic fluorine based pyrolysis products.
Carbon monoxide and carbon dioxide

11 Toxicological information

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· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**		
151-21-3 Sodium dodecyl sulphate		
Oral	LD50	1,288 mg/kg (rat)

· **Primary irritant effect**
· **Skin corrosion/irritation:** Causes mild skin irritation.
· **Serious eye damage/irritation:** Irritating effect.
· **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.

· **IARC (International Agency for Research on Cancer):**
None of the ingredients are listed.

· **Probable routes of exposure:**
Inhalation.
Eye contact.
Skin contact.
· **Acute effects (acute toxicity, irritation and corrosivity):**
Irritating to eyes.
Causes mild skin irritation.
· **Repeated dose toxicity:** No further relevant information available.
· **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
· **Carcinogenicity:** Based on available data, the classification criteria are not met.
· **Reproductive toxicity:** Based on available data, the classification criteria are not met.
· **STOT-single exposure:** Based on available data, the classification criteria are not met.
· **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 further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Negative ecological effects are, according to the current state of knowledge, not expected.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

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· **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. Residual materials should be treated as hazardous.

· **Uncleaned packaging:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

· **UN-Number**	
· **DOT, ADR, IMDG, IATA**	UN1950
· **UN proper shipping name**	
· **DOT**	Aerosols, non-flammable
· **ADR, IMDG, IATA**	AEROSOLS
· **Transport hazard class(es)**	
· **DOT**	
· **Class**	2.2
· **Label**	2.2
· **ADR**	
· **Class**	2 5A
· **Label**	2.2
· **IMDG, IATA**	
· **Class**	2
· **Label**	2.2
· **Packing group**	This UN-number is not assigned a packing group.
· **Environmental hazards:**	Not applicable.
· **Special precautions for user**	Warning: Gases.

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· **EMS Number:**	F-D,S-U
· **Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **IARC (International Agency for Research on Cancer)**

None of the ingredients are listed.

· **Australia**

· **Australian Inventory of Chemical Substances**

All ingredients are listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

112-34-5	2-(2-butoxyethoxy)ethanol	S5

· **New Zealand Inventory of Chemicals (NZIOC)**

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.

· **Relevant phrases**
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
H303 May be harmful if swallowed.
H313 May be harmful in contact with skin.
H315 Causes skin irritation.
H316 Causes mild skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

· **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
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
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
Press. Gas C: Gases under pressure – Compressed gas

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Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 5: Acute toxicity – Category 5
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Skin Corr. 3: Skin corrosion/irritation – Category 3
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – 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

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