

Prepared to Commission Directive 1907/2006 (REACH) and US OSHA Standards
1. IDENTIFICATION

Product Name: CANNED SMOKE, SMOKE DETECTOR TESTER
Part No(s). AERO300-001
Supplier/Manufacturer: No Climb Products Ltd.
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2. HAZARDOUS IDENTIFICATION

This product has very low toxicity and is classified as non flammable*

Inhalation: High concentrations can cause headaches, loss of concentration, tiredness and ultimately asphyxiation. Sudden exposure to very high levels may induce cardiac sensitisation and possible heart attack. No side effects are noticed in normal use, and when used as directed
Skin Contact: When used as directed, no ill effects. Continuous direct contact may result in frostbite like effects (Defatted skin and dryness/irritation). Liquid residue may cause mild skin irritation.
Eye Contact: Avoid contact with the eyes. Aerosols in large quantities may cause irritation. Large liquid splashes are considered unlikely in normal usage. Residue may cause irritation.
Ingestion: Direct spray causes serious cold burns to mouth and throat, low hazard for usual industrial handling.
Physical & Chemical Hazards Heating will cause a rise in pressure with a risk of bursting if heated above 50°C. On combustion, toxic gases are released.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Substance: A 15 bar Aerosol canister containing a mixture of oxy-hydrocarbons and 1,1,1,2 – tetrafluoroethane, liquefied gas propellant.

Hazardous Ingredients:

Chemical Name	CAS No.	EEC No.	Class/Risk	Weight
1,1,1,2 tetrafluoroethane (HFC 134A)	811-97-2	212-377-0	None	>50%
Blended Oxy-hydrocarbons			F, R11	10 – 25%

4. FIRST AID MEASURES

Seek medical treatment when anyone has symptoms apparently due to inhalation or contact with skin or eyes

Inhalation: If symptoms from high concentrations are observed, immediately move patient to fresh air. If patient has stopped breathing, commence artificial respiration. Summon immediate medical attention. For protection, if ventilation is inadequate, the use of positive pressure airline respirators is required. Keep warm and at rest.
Skin Contact: If symptoms from direct spray or irritation are suffered, immediately wash the area with cold or tepid water for at least 15 minutes. Use soap if necessary.
Eye Contact: Immediately flush eyes with plenty of water or eyewash solution for at least 15 minutes, holding eyelids apart. If possible, remove contact lenses. Call physician if irritation persists.
Ingestion: Not specifically applicable (gas).
Other Requirements: Inhalation can cause cardiac sensitisation. Adrenaline or similar sympathomimetic drugs should not be given.

5. FIRE FIGHTING MEASURES:

Aerosol cans may burst under fire conditions. Precautions (removal or spraying with water) may be taken against this risk.

In contact with flames, irritating and toxic fumes are evolved. If large quantities are present, wear self-contained breathing apparatus and evacuate area. Ventilate the area before resuming work.

Foam or any chemical-extinguishing agents should be used.

6. ACCIDENTAL RELEASE MEASURES

If canister is ruptured, evacuate the area, except for personnel dealing with emergency. Extinguish or isolate power from sources of ignition. Ventilate area. Disperse vapour clouds with water spray. Cover drains, sewers etc. Inform authorities if major spillage occurs. Do not breathe gas, do not smoke. Avoid contact with skin and eyes.

7. HANDLING AND STORAGE

Clothing/Safety Equipment: None required under normal usage.

Precautions for Use:

Do not spray on a naked flame or any incandescent material. Do not direct at face or eyes. Use in a well-ventilated area. If intending to use in particularly confined area please contact manufacturer for advice.

Storage:

Pressurised container: "As with all aerosols". Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even when empty.

NOTE: In summer or on hot days extra care should be taken to protect from sunlight and other high temperatures. Even the boot of a car can reach excessive temperatures. If in doubt an insulator/"Thermos" type bag should be used to store the cans.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Hand/Eye Protection: Wear (PPE) Personal Protective Equipment appropriate to the task and the environment

Occupational Exposure Limit:

Gas:	1000ppm (4240mg/m ³) (Long term exposure limit - 8 hr TWA reference period)
Aerosol Mist:	1000ppm (2500mg/m ³) LTEL (Equivalent to approximately 5 seconds discharge/m ³)

Ventilation: Use product in a well ventilated place

Toxicity: Very low toxicity, weak anaesthetic.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colourless gas, liquid under pressure. Aerosol is visible as a light mist.

Odour: Slight hydrocarbon smell.

Boiling Point: -26.5°C (Propellant)

Flash Point: Not Applicable.

Vapour Pressure: 5.4 Bar at 25°C

Liquid Density: 1066 kg/m³ at 25°C

Vapour Density: 3.5 (Air = 1)

Solubility: Total product is slightly soluble in water and soluble with most common organic solvents. Final aerosol product is soluble in water.

Partition Coefficient: Unknown

Other Data: None

10. STABILITY AND REACTIVITY

Stability:	Stable at ambient temperature and under normal conditions of use.
Hazardous Reactions:	May decompose and form toxic gases on contact with hot surfaces and flames.
Incompatibility:	Reacts violently with alkali metals, alkaline earth metals, magnesium, powdered metals.
Decomposition Products:	On combustion or on thermal decomposition (pyrolysis) releases toxic gases. (Hydrofluoric acid, Fluorinated compounds)

11. TOXICOLOGICAL INFORMATION

Eye Contact: (Aerosol)	High concentrations may cause eye irritation.
Skin Contact: (Aerosol)	Repeated or prolonged skin application may cause mild skin irritation.
Inhalation:	High concentrations of aerosol may be irritant to the respiratory tract, and cause headaches, dizziness and possible loss of consciousness.
Ingestion: (Aerosol)	Low oral toxicity.
Long Term Effects:	No evidence of significant effects.

12. ECOLOGICAL INFORMATION

Mobility:	Long term aerosol product is soluble in water. All remaining components are highly volatile.
Degradability:	Decomposed comparatively rapidly in lower atmosphere. Atmospheric lifetime of propellant is 15.6 years. Biodegradability of aerosol residues (Static test method) (Bismuth active substance) 100% in 19 days.
Short and Long Term Effects:	Propellant does not deplete ozone. Does not influence photochemical smog, and is designated a non-VOC.

13. DISPOSAL CONSIDERATIONS

Do not pierce, incinerate or expose to temperatures above 50°C even when empty.
Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

Designation of goods/Proper shipping name: Aerosols

UN No.	1950
UN Hazard Class:	2.2 Non-flammable gas
IMO/IMDG Class:	2.2
Page Nos.	2102, 2102A
ADR/RID:	
Class:	2.2
Item No.	5° A
Hazard Ident. No.	20
Air (IACO-IATA)	
Class:	2.2
Labelling:	NON-FLAMMABLE GAS

15. REGULATORY INFORMATION

Product Label:	Not Applicable.
Risk Phrases:	R36/37/38 Irritating to eyes, respiratory system and skin
Safety Phrases:	S2 Keep out of reach of children. S3 Keep in a cool place. S9 Keep container in a well-ventilated place. S23 Do not breathe spray. S24/25 Avoid contact with skin and eyes. S41 In case of fire and/or explosion do not breathe fumes. S51 Use only in well ventilated areas.

References:

The Chemicals (Hazard Information & Packing for Supply) Regulations July 2002 (CHIP 3)

The Control of Substances Hazardous to Health Regulations 1989 S.I. 1657.

The Health and Safety at Work Act 1974.

*In accordance with Commission Directive 94/1/EC amending council directive 75/324/EEC

16. OTHER INFORMATION

For further Technical and Safety information contact:-

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Revision Status

Revision 5:	Section 14 Changes to IMO/IMDG Class and Page Numbers	17.01.97
Revision 6:	Section 14 Change to ADR/RID item number	27.01.98
Revision 7:	Section 14 Labelling, Change to Non-Flammable Gas.	11.11.99
Revision 8:	Section 14 Add: Designation of goods/Proper shipping name:	04.09.00
Revision 9:	Sections 1 and 16: Change of supplier address.	08.03.04
Revision10:	Section 8 include PPE detail / Section 13 amend exposure condition to 50°C	11.02.05
Revision11:	Sections 2 and 3 reversed to comply with the new EC REACH regulation.	20.06.08
Revision12:	Commission Directive added page 1	02.09.09

NOTE:

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