

**1. IDENTIFICATION**

Product Name: SURETEST SMOKE DETECTOR TESTER

Part No(s): NC-Aero 100

Supplier: FlameStop Australia Pty Ltd
1/70 Gibbes Street
CHATSWOOD NSW 2067

Manufacturer: No Climb Products Ltd
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2. 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 F,R11	>50% 10-25%
Blended Oxo-hydrocarbons				

3. HAZARDOUS IDENTIFICATION

Under normal usage this product has very low toxicity and is non flammable.

Inhalation: Very 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. This is considered unlikely in normal use, and when used as directed.

Skin Contact: When used as directed, no ill effects. Direct spray contact may result in frostbite effects leading to 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 and can cause vomiting. Such ingestion should not occur under the use as intended and described.

Physical & Chemical Hazards: Heating will cause a rise in pressure with a risk of bursting if heated above 45C. On combustion, toxic gases are released.

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 remove patient to uncontaminated area. If patient has stopped breathing, commence artificial respiration. Summon immediate medical attention. For protection, if ventilation is inadequate, the use of positive pressure air line 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: If affected, immediately flush eyes with plenty of water or eyewash solution for at least 15 minutes, holding eyelids apart.

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, irritation and toxic fumes are evolved. Wear self contained breathing apparatus and evacuate area for large quantities. 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 breath gas, do not smoke. Avoid contact with skin and eyes.

7. HANDLING AND USAGE

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 are. If intending to use in particularly confined area please contact manufacturer to discuss.

Storage:

Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 45⁰C. 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

Occupational Exposure Limit:

Gas: 1000ppm (3540mg/m³) (Long term exposure limit - 8 hour TWA reference period)
Aerosol Mist: 1000ppm (2500mg/m³) (Equivalent to approximately 5 seconds discharge/m³)

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: -26.5⁰C (Propellant)

Flash Point: Not Applicable.

Vapour Pressure: 5.4 Bar at 25⁰C

Liquid Density: 1057 kg/m³ at 25⁰C

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 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 possibly loss of consciousness.
Ingestion: (Aerosol)	Low oral toxicity.
Short or Long Term Effects:	Does not deplete ozone. Does not influence photochemical smog (i.e. is not a VOC).

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:	Does not deplete ozone. Does not influence photochemical smog i.e. is not a VOC).

13. DISPOSAL CONSIDERATIONS

Do not pierce, incinerate or expose to temperatures above 45°C even when empty.
Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

UN No.	1950
UN Hazard Class:	2.2 Non-flammable gas
IMO/IMDG Class:	9
Page No.	9022
ADR/RID	
Class:	2.2
Item No.	10 ⁰ (a)
Hazard Ident. No.	20
Air (IACO-IATA)	
Class:	2.2
Labelling:	COMPRESSED GAS NON-FLAMMABLE

15. REGULATORY INFORMATION

Product Label:	Not Applicable.
Risk Phrases:	No R-phrases.
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 breath spray. S24/25 Avoid contact with skin and eyes. S41 In case of fire and/or explosion do not breath fumes. S51 Use only in well ventilated areas.

References:

The Chemicals (Hazard information & Packing) Regulation 1994 S.I. No 669 (CHIP 2) **United Kingdom Regulation**
The Control of Substances Hazardous to Health Regulations 1989 S.I. 1657. **United Kingdom Regulation**
The Health and Safety at Work Act 1974 **United Kingdom Regulation**

16. OTHER INFORMATION

For further Technical and Safety information contact:-

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REVISION STATUS

Revision 1:	New Safety Data Sheet	28.11.95
Revision 2:	Updated for release of new product	12.02.96

NOTE:

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