

1. IDENTIFICATION

Product Name: TRUTEST SMOKE DETECTOR SENSITIVITY TESTER
Part No(s). AERO400-XXX
Supplier/Manufacturer: No Climb Products Ltd.
Address: Edison House, 163 Dixons Hill Road,
 Welham Green, Hertfordshire. AL9 7JE. United Kingdom
Telephone : +44 (0) 1707 282760 **Fax:** +44 (0) 1707 282777

2. HAZARDOUS IDENTIFICATION

Under normal usage this product has very low toxicity and is 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 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: 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/m³) (Long term exposure limit - 8 hr TWA reference period)

Aerosol Mist: No OEL assigned.

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: 5.6 Bar at 25°C

Liquid Density: 1070 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.

Partition Coefficient: Unknown

Other Data: The aerosol material is hygroscopic.

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 insoluble in water. All remaining components are highly volatile.
Degradability:	Decomposed comparatively rapidly in lower atmosphere. Atmospheric lifetime of propellant is 15.6 years. The product is anticipated to be substantially removed in biological treatment processes.
Short and Long Term Effects:	Propellant does not deplete ozone. Does not influence photochemical smog, and is designated 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, 20 Non-flammable n.o.s. (U.K.& Rest of World).

Aerosols, Non-flammable n.o.s. (USA) Only

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

NOTE: This aerosol complies with ORM-D shipping regulations within the U.S.A. for packages of 30 kg or less, providing the outside packaging is marked "**INSIDE CONTAINERS COMPLY WITH PRESCRIBED REGULATIONS**". (See CRF49 172-316 for placement information).

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) Regulations July 2003 (CHIP 3)

The Control of Substances Hazardous to Health Regulations 1999

The Health and Safety at Work Act 1974.

16. OTHER INFORMATION

For further Technical and Safety information contact:-

No Climb Products Limited
Edison House
163, Dixons Hill Road
Welham Green
Hertfordshire
AL9 7JE
United Kingdom

Tel: +44 (0) 1707 282760
Fax +44 (0) 1707 272777

Revision Status

Revision 1: New Safety Data Sheet	23.07.97
Revision 2: Section 14 Change ADR/RID Item number.	27.01.98
Revision 3: Sections 1 & 16 Update address & Telephone/Fax numbers. 3,4,5,7, & 12 Information updated.	10.09.99
Revision 4: Section 14 Labelling Change to Non-flammable gas.	11.11.99
Revision 5: Section 14 Add: Designation of goods/Proper shipping name:	06.09.00
Revision 6: Section 14. Add: ORM-D Regulations (USA)	30.11.00
Revision 7: Section 15 CHIP 3 amendment review	07.07.03
Revision 8: Change of address and contact numbers	02.01.04
Revision 9: Section 8 include PPE detail / Sections 3, 7, 13 amend exposure condition to 50°C	21.03.05
Revision 10: Commission Directive added page 1	20.07.09

NOTE:

Because our policy is one of continuous improvement, details of products described within this publication are subject to change without notice. All information provided within this publication is believed to be correct at the time of going to press. Every effort has been made to ensure the accuracy of information which is provided in good faith but nothing contained herein is intended to incorporate any representation or warranty either express or implied or to form the basis of any legal relations between the parties hereto, additional to or in lieu of such as may be applicable to a contract of sale or purchase.