TRUTEST SMOKE DETECTOR SENSITIVITY TESTER

SAFETY DATA SHEET

SDS0065AU-F

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name	TRUTEST SMOKE DETECTOR SENSITIVITY TESTER.
Trade Name	AERO 400-XXX (XXX denotes customer variant).
CAS No.	Mixture.
EINECS No.	Mixture.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use(s)	Smoke simulation (for detector sensitivity tester).
Uses advised against	None known.

1.3 Details of the supplier of the Safety Data Sheet

Company Identification	FlameStop Australia, 13 Chaplin Drive, Lane Cove West, NSW, 2066.
Telephone	02 9932 2020
Fax	02 9932 2022
E-mail	sales@flamestop.com.au

1.4 Emergency telephone number

Company	0425 342 729

1.5 Details of the manufacturer

Company Identification	Detectortesters (No Climb Products Ltd), Edison House, 163 Dixons Hill Road, Welham Green, Hertfordshire. AL9 7JE. United Kingdom
Telephone	+44 (0) 1707 282760
Fax	+44 (0) 1707 282777
E-Mail (competent person)	SDS@detectortesters.com

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to GHS 7th revised edition

Aerosol 3; Pressurised container: May burst if heated.
Aquatic Chronic 3; Harmful to aquatic life with long lasting effects.

2.2 Label elements

According to GHS 7th revised edition

Hazard pictogram(s)	None.
Signal word(s)	Warning.
Hazard statement(s)	H229: Pressurised container: May burst if heated. H412: Harmful to aquatic life with long lasting effects.
Precautionary statement(s)	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P251: Do not pierce or burn, even after use. P273: Avoid release to the environment. P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C.
Additional Information	18.75 % by mass of the contents are flammable. Keep out of the reach of children.

2.3 Other hazards

High concentrations: May cause drowsiness and dizziness.

2.4 Additional Information

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

3.1 Mixtures

According to GHS 7th revised edition

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	Hazard pictogram(s) and Hazard statement(s)
1,1,1,2-tetrafluoroethane	80 - 90	811-97-2	212-377-0	GHS04, Press. gas: Liquefied gas: H280
Pentane	1 - 10	109-66-0	203-692-4	GHS02, Flam. Liq. 2; H225, GHS07, STOT SE 3; H336, GHS08, Asp. Tox. 1; H304, GHS09, Aquatic Chronic 2; H411, EUH066
Propan-2-ol	1 - 10	67-63-0	200-661-7	GHS02, Flam. Liq. 2; H225, GHS07, Eye Irrit. 2; H319, STOT SE 3; H336

3.2 Additional Information
For full text of H/P statements see section 16.

SECTION 4: FIRST AID MEASURES

4.1	**Description of first aid measures**	
	Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, obtain medical attention.
	Skin Contact	Wash with plenty of soap and water.
	Eye Contact	Flush eyes with water for at least 15 minutes while holding eyelids open.
	Ingestion	Unlikely route of exposure.
4.2	**Most important symptoms and effects, both acute and delayed**	None anticipated.
4.3	**Indication of any immediate medical attention and special treatment needed**	Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Pressurised container: May burst if heated.

5.1	**Extinguishing Media**	
	Suitable Extinguishing Media	Extinguish preferably with dry chemical or alcohol foam.
	Unsuitable Extinguishing Media	None known.
5.2	**Special hazards arising from the substance or mixture**	Decomposes in a fire giving off toxic fumes:Hydrofluoric acid, Fluorinated compounds. Heating may cause pressure rise with risk of bursting.
5.3	**Advice for fire-fighters**	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

The product is an aerosol. It is unlikely to present spillage or leakage hazard.

6.1	**Personal precautions, protective equipment and emergency procedures**	Ensure adequate ventilation. Avoid inhalation of high concentrations of vapours.
6.2	**Environmental precautions**	Avoid release to the environment.
6.3	**Methods and material for containment and cleaning up**	Collect mechanically and dispose of according to Section 13. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a lidded container for disposal or recovery. Containers must not be punctured or destroyed by burning, even when empty.
6.4	**Reference to other sections**	See Also Section: 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1	**Precautions for safe handling**	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Provide adequate ventilation. Avoid inhalation of high concentrations of vapours.
7.2	**Conditions for safe storage, including any incompatibilities**	Observe official regulations on storing packagings with pressurised containers.
	Storage Temperature	Protect from sunlight. Do not expose to temperatures exceeding 50°C.
	Storage Life	Stable under normal conditions.
	Incompatible materials	Alkali metals, alkaline earth metals, magnesium, powdered metals.
7.3	**Specific end use(s)**	Smoke simulation (for detector sensitivity tester).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
1,1,1,2-tetrafluoroethane	811-97-2	1000	4240	-	-	WEL
Pentane	109-66-0	600	1800	-	-	WEL
Propan-2-ol	67-63-0	400	999	500	1250	WEL

WEL: Workplace Exposure Limit (UK HSE EH40)

8.1.2 Biological limit value Not established.
8.1.3 PNECs and DNELs Not established.
8.2 Exposure controls
8.2.1 Appropriate engineering controls Provide adequate ventilation.
8.2.2 Personal protection equipment

Eye/face protection — Not normally required.

Skin protection (Hand protection/ Other) — Not normally required.

Respiratory protection — No personal respiratory protective equipment normally required. Handling of larger amounts: In case of insufficient ventilation, wear suitable respiratory equipment. A suitable mask with filter type A (EN14387 or EN405) may be appropriate.

Thermal hazards — Not applicable.

8.2.3 Environmental Exposure Controls Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Colourless.
Odour	Slight hydrocarbon smell.
Odour Threshold	Not applicable.
pH	Not determined.
Melting Point/Freezing Point	Not determined.
Initial boiling point and boiling range	-26.5°C
Flash Point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	5.6 bar @ 25 °C
Vapour Density (Air=1)	3.5
Relative density	Not determined.
Density	1070kg/m³ @ 25 °C
Solubility(ies)	Slightly soluble in: Water. Soluble in most organic solvents.
Partition coefficient: n-octanol/water	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Dynamic viscosity	Not determined.
Kinematic Viscosity	Not determined.
Explosive properties	Not explosive. Pressurised container: May burst if heated.
Oxidising properties	Not oxidising.

9.2 Other information None.

SECTION 10: STABILITY AND REACTIVITY

10.1	**Reactivity**	Stable under normal conditions.
10.2	**Chemical stability**	Stable under normal conditions.
10.3	**Possibility of hazardous reactions**	None.
10.4	**Conditions to avoid**	Heat and direct sunlight.
10.5	**Incompatible materials**	Alkali metals, alkaline earth metals, magnesium, powdered metals.
10.6	**Hazardous Decomposition Product(s)**	None.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Mixtures

Acute toxicity	Low acute toxicity.High concentrations: May cause drowsiness and dizziness.
Irritation	Non-irritant.
Corrosivity	Not classified.
Sensitisation	It is not a skin sensitiser.
Repeated dose toxicity	None anticipated.
Carcinogenicity	No evidence of carcinogenicity.
Mutagenicity	There is no evidence of mutagenic potential.
Toxicity for reproduction	None anticipated.

11.2 Other information None.

SECTION 12: ECOLOGICAL INFORMATION

12.1	**Toxicity**	Aquatic Chronic 3; Harmful to aquatic life with long lasting effects.
12.2	**Persistence and degradability**	No information available.
12.3	**Bioaccumulative potential**	No information available.
12.4	**Mobility in soil**	Slightly soluble in: Water. The product is predicted to have low mobility in soil.
12.5	**Results of PBT and vPvB assessment**	Not classified as PBT or vPvB.
12.6	**Other adverse effects**	None.

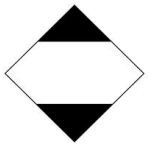
SECTION 13: DISPOSAL CONSIDERATIONS

13.1	**Waste treatment methods**	Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Non-emptied aerosol: Dispose of wastes in an approved waste disposal facility. Do NOT landfill.
13.2	**Additional Information**	Disposal should be in accordance with local, state or national legislation. Do not allow to enter drains, sewers or watercourses.

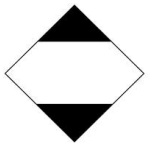
SECTION 14: TRANSPORT INFORMATION

14.1	**UN number**	
	ADR, IMDG, IATA	UN 1950
14.2	**UN Proper Shipping Name**	
	ADR	1950 AEROSOLS
	IMDG	AEROSOLS
	IATA	AEROSOLS, Non-flammable
14.3	**Transport hazard class(es)/ Division**	
	ADR	
	Class / Classification	2 5A Gases
	Label	2.2
	IMDG, IATA	
	Class / Division	2.2
	Label	2.2
14.4	**Packing Group**	
	ADR, IMDG, IATA	None.
14.5	**Environmental hazards**	
	Marine Pollutant	No.
14.6	**Special precautions for user**	Warning: Gases.

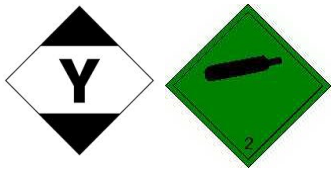
	Kemler Code	-
	IMDG EMS	F-D, S-U
14.7	**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
14.8	**Additional Information**	
	ADR	
	Limited Quantity (LQ)	1 L



ADR Transport Category	3
Tunnel Restriction Code	Not applicable in Limited Quantities.
IMDG	
Limited Quantity (LQ)	1 L



IATA	
Limited Quantity (LQ)	1 L



UN "Model Regulation"	UN 1950, AEROSOLS, 2.2

SECTION 15: REGULATORY INFORMATION

15.1	**Safety, health and environmental regulations/legislation specific for the substance or mixture**	
15.1.1	**EU regulations**	
	Authorisations and/or restrictions on use	
	Candidate List of Substances of Very High Concern for Authorisation	Not listed.
	Community Rolling Action Plan (CoRAP);	Not listed.
15.1.2	**National regulations**	None known.
15.2	**Chemical Safety Assessment**	Not available.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1,2,3,15.

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG	International Maritime Code for Dangerous Goods
IATA	International Air Transport Association
CDG	Carriage of Dangerous Goods
Aerosol 3	Aerosol Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment Category 3
Eye Irrit. 2	Serious eye damage/irritation Category 2

Press. Gas	Gases under pressure
Flam. Liq. 2	Flammable Liquid Category 2
STOT SE 3	Specific target organ toxicity — single exposure Category 3

Hazard Statement(s)

H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

No information available.