


## SAFETY DATA SHEET

SDS0066AU-F

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

<b>1.1 Product identifier</b>	Product Name	Solo Smoke Detector Tester.
	Trade Name	Solo A3 –XXX (XXX denotes customer variant).
	CAS No.	Mixture.
	EINECS No.	Mixture.
	REACH Registration No.	None assigned.
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	Identified Use(s)	Smoke simulation.
	Uses Advised Against	None known.
<b>1.3 Details of the supplier of the safety data sheet</b>	Company Identification	FlameStop NSW/ACT (Head Office) 1/70 Lower Gibbes Street CHATSWOOD, NSW. 2067 02 9932 2020 02 9932 2022 sales@flamestop.com.au
	Telephone	
	Fax	
	E-Mail (competent person)	
<b>1.4 Emergency telephone number</b>	Emergency Phone No.	0425 342 729
<b>1.5 Details of the manufacturer</b>	Company Identification	Detectortesters (No Climb Products Ltd) Edison House 163 Dixons Hill Road Welham Green Hertfordshire AL9 7JE. United Kingdom +44 (0) 1707 282760 +44 (0) 1707 282777 <a href="mailto:SDS@detectortesters.com">SDS@detectortesters.com</a>
	Telephone	
	Fax	
	E-Mail (competent person)	

### SECTION 2: HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>	<b>According to GHS 3<sup>rd</sup> revised edition</b>	Aerosol 3; Pressurised container: May burst if heated. Eye Irrit. 2; Causes severe eye irritation.
<b>2.2 Label elements</b>	Hazard Pictogram(s)	According to GHS 3 <sup>rd</sup> revised edition 
	Signal Word(s)	GHS07 Warning.
	Hazard Statement(s)	H229: Pressurised container: May burst if heated. H319: Causes serious eye irritation.
	Precautionary Statement(s)	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.. P251: Pressurised container - Do not pierce or burn, even after use. P264: Wash hands and exposed skin thoroughly after handling. P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C.

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P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3 Additional Information

14.5 % by mass of the contents are flammable.  
Keep out of reach of children.

### 2.4 Other hazards

High concentrations: May cause drowsiness and dizziness.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

### 3.1 Mixtures

According to GHS 3<sup>rd</sup> revised edition

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Pictogram(s) and Hazard Statement(s)
1,1,1,2-tetrafluoroethane	50-100	811-97-2	212-377-0	None assigned.	GHS04, Press. Gas: Liquefied gas; H280
Propan-2-ol	10-25	67-63-0	200-661-7	01-2119457558-25	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 develop, obtain medical attention.

Skin Contact

Wash skin with soap and water.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

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: FIREFIGHTING MEASURES

Pressurised container: May burst if heated.

### 5.1 Extinguishing media

Suitable Extinguishing media

Extinguish with carbon dioxide, dry chemical, foam or waterspray.

Unsuitable extinguishing media

None known.

### 5.2 Special hazards arising from the substance or mixture

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.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

The product is an aerosol. It is unlikely to present spillage or leakage hazard. In case of rupture, released content should be contained as any other solvent spill.

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|--|--|
| <b>6.1 Personal precautions, protective equipment and emergency procedures</b> | Ensure adequate ventilation. Avoid inhalation of high concentrations of vapours. Wear suitable gloves and eye/face protection.   |
| <b>6.2 Environmental precautions</b>   | Do not release large quantities into the surface water or into drains.   |
| <b>6.3 Methods and material for containment and cleaning up</b>                | 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.<br>Large spillages: Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses. |
| <b>6.4 Reference to other sections</b>   | See Also Section: 8, 13.   |

### SECTION 7: HANDLING AND STORAGE

- |   |  |
|---|--|
| <b>7.1 Precautions for safe handling</b>                                | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use.<br>Provide adequate ventilation. Avoid inhalation of high concentrations of vapours. Wear suitable gloves if prolonged skin contact is likely. See Section: 8. Do not eat, drink or smoke during work. Wash hands thoroughly after handling. |
| <b>7.2 Conditions for safe storage, including any incompatibilities</b> | Ambient.<br>Protect from sunlight. Do not expose to temperatures exceeding 50°C.<br>Stable under normal conditions.  |
| Storage temperature   |  |
| Storage life  |  |
| Incompatible materials  | None known.  |
| <b>7.3 Specific end use(s)</b>  | Smoke simulation.  |

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

##### 8.1.1 Occupational Exposure Limits

1,1,1,2-tetrafluoroethane	811-97-2	1000	4240	-	-	WEL: Workplace Exposure Limit (UK HSE EH40)
Propan-2-ol	67-63-0	400	999	500	1250	WEL: Workplace Exposure Limit (UK HSE EH40)

**8.1.2 Biological limit value** Not established.

**8.1.3 PNECs and DNELs** Propan-2-ol.

DNEL	Oral	Inhalation	Dermal
Industry - Long Term - Local effects	-	-	-
Industry - Long Term - Systemic effects	-	500 mg/m <sup>3</sup>	888 mg/kg bw/day
Consumer - Long Term - Local effects	-	-	-
Consumer - Long Term - Systemic effects	26 mg/kg bw/day	89 mg/m <sup>3</sup>	319 mg/kg bw/day

#### 8.2 Exposure controls

##### 8.2.1 Appropriate engineering controls

Provide adequate ventilation.

##### 8.2.2 Personal protection equipment

Eye/ face protection

If eye contact is likely: Wear protective eyewear (goggles, face shield, or safety glasses).

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Skin protection (Hand protection/ Other)

Wear suitable gloves if prolonged skin contact is likely.  
Gloves: Nitrile rubber, NBR.



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 (EN141 or EN405) may be appropriate.



Thermal hazards

Not applicable.

### 8.2.3 Environmental Exposure Controls

Do not release large quantities into the surface water or into drains.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Aerosol.
Colour.	Colourless.
Odour	Characteristic.
Odour Threshold (ppm)	Not determined.
pH (Value)	Not determined.
Melting Point / Freezing Point	Not determined.
Initial boiling point and boiling range	-26°C.
Flash Point	13°C.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Non-flammable; tested to 2008/47/EC Annex 1.9.1(iii)
Upper/lower flammability or explosive limits	Explosive Limit Ranges: 2.0-12.0 Vol-%
Vapour pressure	5.2 bar @ 20°C
Density	1.132 g/cm <sup>3</sup> @ 20°C
Vapour density	Not determined.
Relative density	Not determined.
Solubility(ies)	Immiscible with water.
Partition Coefficient (n-Octanol/water)	Not determined.
Ignition temperature	425°C
Auto Ignition Point (°C)	Product is not selfigniting.
Decomposition Temperature (°C)	Not determined.
Kinematic Viscosity	Not determined.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

### 9.2 Other information

Organic solvents - Content	14.8%
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## 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	No hazardous reactions known if used for its intended purpose.
10.4 Conditions to avoid	Heat and direct sunlight.
10.5 Incompatible materials	None anticipated.
10.6 Hazardous decomposition product(s)	No hazardous decomposition products known.

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>11.1</b>	<b>Information on toxicological effects</b>	
<b>11.1.1</b>	<b>Mixtures</b>	
	<b>Acute toxicity</b>	Low acute toxicity.
	<b>Skin corrosion/irritation</b>	Non-irritant.
	<b>Serious eye damage/irritation</b>	Eye Irrit. 2: Causes serious eye irritation.
	<b>Respiratory or skin sensitization</b>	It is not a skin sensitiser.
	<b>Germ cell mutagenicity</b>	There is no evidence of mutagenic potential.
	<b>Carcinogenicity</b>	Not classified.
	<b>Reproductive toxicity</b>	None anticipated.
	<b>STOT - single exposure</b>	Not classified.
	<b>STOT - repeated exposure</b>	Not classified.
	<b>Aspiration hazard</b>	None anticipated.
<b>11.2</b>	<b>Other information</b>	None.

## SECTION 12: ECOLOGICAL INFORMATION

<b>12.1</b>	<b>Toxicity</b>	Low toxicity to aquatic organisms.
<b>12.2</b>	<b>Persistence and degradability</b>	The product is readily biodegradable. Unlikely to persist.
<b>12.3</b>	<b>Bioaccumulative potential</b>	The product has moderate potential for bioaccumulation.
<b>12.4</b>	<b>Mobility in soil</b>	Immiscible with water. The product is predicted to have low mobility in soil.
<b>12.5</b>	<b>Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
<b>12.6</b>	<b>Other adverse effects</b>	None.

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>13.1</b>	<b>Waste treatment methods</b>	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.
<b>13.2</b>	<b>Additional Information</b>	Disposal should be in accordance with local, state or national legislation.

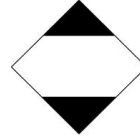
## SECTION 14: TRANSPORT INFORMATION

<b>14.1</b>	<b>UN number</b>	
	<b>ADR, IMDG, IATA</b>	UN 1950.
<b>14.2</b>	<b>UN proper shipping name</b>	
	<b>ADR</b>	1950 AEROSOLS
	<b>IMDG</b>	AEROSOLS
	<b>IATA</b>	AEROSOLS, Non-flammable.
<b>14.3</b>	<b>Transport hazard class(es)</b>	
	<b>ADR</b>	
	Class / Classification	2 5A Gases.
	Label	2.2
	<b>IMDG, IATA</b>	
	Class / Division	2.2
	Label	2.2
<b>14.4</b>	<b>Packing group</b>	
	<b>ADR, IMDG, IATA</b>	None.
<b>14.5</b>	<b>Environmental hazards</b>	
	Marine Pollutant	No.
<b>14.6</b>	<b>Special precautions for user</b>	Warning: Gases
	Kemler Code	-
	IMDG EMS	F-D, S-U
<b>14.7</b>	<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.
<b>14.8</b>	<b>Additional Information</b>	
	<b>ADR</b>	

## Solo Smoke Detector Tester

Limited Quantity (LQ)

1L



ADR Transport Category  
Tunnel Restriction Code

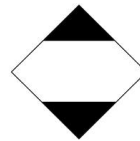
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Not applicable in Limited Quantities.

**IMDG**

Limited Quantity (LQ)

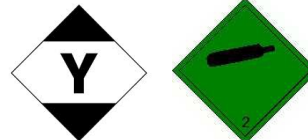
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**IATA**

Limited Quantity (LQ)

1L



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

All chemicals are not listed.

REACH: ANNEX XVII restrictions on the  
manufacture, placing on the market and use of  
certain dangerous substances, preparations and  
articles

All chemicals are not listed.

REACH: ANNEX XIV list of substances subject to  
authorisation

All chemicals are not listed.

Community Rolling Action Plan (CoRAP)

All chemicals are not listed.

##### 15.1.2 National regulations

Wassergefährdungsklasse (Germany)

1,1,1,2-tetrafluoroethane

Propan-2-ol

Technical Instructions (air)

None known.

WGK class 1

WGK class 1

Class	Share in %
NK	10-<25

VOC-CH

14.48%

VOC-EU

167.3g/l

Danish MAL Code

2-1

#### 15.2 Chemical Safety Assessment

Not available.

### SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

#### LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
DNEL	Derived No Effect Level

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PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
WGK	Wassergefährdungsklasse (Germany)
VOC	Volatile Organic Compounds
MAL Code	Regulation for the labeling concerning inhalation hazards, Denmark
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Code for Dangerous Goods
IATA	International Air Transport Association
Aerosol 3	Aerosol Category 3
Eye Irrit. 2	Serious eye damage/irritation Category 2
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.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

### Precautionary Statement(s)

P280	Wear protective eyewear (goggles, face shield, or safety glasses).
P337+P313	If eye irritation persists: Get medical advice/attention.

### Disclaimers

The information is based on the best knowledge of No Climb Products Ltd. and its advisors and is given in good faith, but we cannot guarantee its accuracy, reliability or completeness and therefore disclaim any liability for loss or damage arising out of use of this data. Since conditions of use are outside the control of the Company and its advisors we disclaim any liability for loss or damage when the product is used for purposes other than it is intended.

### Annex to the extended Safety Data Sheet (eSDS)

No information available.