

## Solo Smoke Detector Tester

# SAFETY DATA SHEET

SDS0066UK

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 453/2010

### 1. 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	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	SDS@detectortesters.com
<b>1.4 Emergency telephone number</b>	
Emergency Phone No.	+44 (0) 1707 282760

### 2. SECTION 2: HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>	
Directive 67/548/EEC & Directive 1999/45/EC	Not classified as dangerous for supply/use.
<b>2.2 Label elements</b>	
Hazard Symbol	According to Directive 67/548/EEC & Directive 1999/45/EC
Risk Phrases	None.
Safety Phrases	None.
Additional Information	S2: Keep out of the reach of children. S17: Keep away from combustible material. S16: Keep away from sources of ignition - No smoking. 14.5 % by mass of the contents are flammable. Do not spray on a naked flame or any incandescent material. Do not pierce or burn, even after use. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C.
<b>2.3 Other hazards</b>	High concentrations: May cause drowsiness and dizziness.
<b>2.4 Additional Information</b>	None.

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### 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

#### 3.1 Mixtures

EC Classification No. 67/548/EEC

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	EC Classification and Risk Phrases
1,1,1,2-tetrafluoroethane	50 - 100	811-97-2	212-377-0	None assigned	None
Propan-2-ol	10 - 25	67-63-0	200-661-7	01-2119457558-25	F; R11, Xi; R36, R67

#### 3.2 Additional Information

For full text of R/S phrases see section 16.

### 4. 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. 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.

### 5. SECTION 5: FIRE-FIGHTING 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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### 6. 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. |
| <b>6.4 Reference to other sections</b>   | See Also Section: 8, 13.   |

### 7. 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. Do not spray on an open flame or other ignition source. Provide adequate ventilation. Avoid inhalation of high concentrations of vapours. Avoid prolonged skin contact. 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> |   |
| Storage Temperature   | Ambient.<br>Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C.   |
| Storage Life  | Stable under normal conditions.   |
| Incompatible materials  | None anticipated.   |
| <b>7.3 Specific end use(s)</b>  | Smoke simulation.   |

### 8. 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/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
1,1,1,2-tetrafluoroethane	811-97-2	1000	4240	-	-	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.

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### 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

Not normally required.



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 (EN14387 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.

## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Colourless.
Odour	Characteristic.
Odour Threshold	Not determined.
pH	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 temperature	Product is not selfigniting.
Decomposition Temperature	Not determined.
Kinematic Viscosity	Not determined.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

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<b>9.2 Other information</b>	
Organic solvents - Content	14.8%

### 10. SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	Stable under normal conditions.
<b>10.2 Chemical stability</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	Stable under normal conditions.
<b>10.4 Conditions to avoid</b>	Heat and direct sunlight.
<b>10.5 Incompatible materials</b>	None anticipated.
<b>10.6 Hazardous Decomposition Product(s)</b>	None known.

### 11. SECTION 11: TOXICOLOGICAL INFORMATION

<b>11.1 Information on toxicological effects</b>	
<b>11.1.1 Mixtures</b>	
Acute toxicity	Low acute toxicity.
Irritation	Not classified.
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.
Aspiration hazard	None anticipated.
<b>11.2 Other information</b>	None.

### 12. SECTION 12: ECOLOGICAL INFORMATION





<b>12.1 Toxicity</b>	Low toxicity to aquatic organisms.
<b>12.2 Persistence and degradability</b>	The product is readily biodegradable. Unlikely to persist.
<b>12.3 Bioaccumulative potential</b>	The product has no potential for bioaccumulation.
<b>12.4 Mobility in soil</b>	Immiscible with water. The product is predicted to have low mobility in soil.
<b>12.5 Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
<b>12.6 Other adverse effects</b>	None.

### 13. SECTION 13: DISPOSAL CONSIDERATIONS

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

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### 14. SECTION 14: TRANSPORT INFORMATION

<b>14.1 UN number</b>		
<b>ADR, IMDG, IATA</b>		UN 1950
<b>14.2 UN Proper Shipping Name</b>		
<b>ADR</b>		1950 AEROSOLS
<b>IMDG</b>		AEROSOLS
<b>IATA</b>		AEROSOLS, Non-flammable
<b>14.3 Transport hazard class(es)</b>		
<b>ADR</b>		
Class		2 5A Gases
Label		2.2
<b>IMDG, IATA</b>		
Class		2.2
Label		2.2
<b>14.4 Packing Group</b>		
<b>ADR, IMDG, IATA</b>		None.
<b>14.5 Environmental hazards</b>		
Marine Pollutant		No.
<b>14.6 Special precautions for user</b>		Warning: Gases.
Kemler Code		-
IMDG EMS		F-D, S-U
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>		Not applicable.
<b>14.8 Additional Information</b>		
<b>ADR</b>		
Limited Quantity (LQ)		1 L
		
ADR Transport Category		3
Tunnel Restriction Code		E
<b>IMDG</b>		
Limited Quantity (LQ)		
		
<b>IATA</b>		
Limited Quantity (LQ)		
		 
UN Model Regulation		UN 1950, AEROSOLS, 2.2

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### 15. SECTION 15: REGULATORY INFORMATION

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>					
<b>15.1.1 EU regulations</b>					
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, mixtures 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); Draft 29/02/2012	All chemicals are not listed.				
<b>15.1.2 National regulations</b>	None known.				
Wassergefährdungsklasse (Germany)					
1,1,1,2-tetrafluoroethane	WGK class 1				
Propan-2-ol	WGK class 1				
Technical Instructions (air)					
	<table border="1"> <thead> <tr> <th>Class</th> <th>Share in %</th> </tr> </thead> <tbody> <tr> <td>NK</td> <td>10 - &lt;25</td> </tr> </tbody> </table>	Class	Share in %	NK	10 - <25
Class	Share in %				
NK	10 - <25				
VOC-CH	14.48%				
VOC-EU	167.3%				
Danish MAL Code	2-1				
<b>15.2 Chemical Safety Assessment</b>	Not available.				

### 16. 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
DNEL	Derived No Effect Level
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	Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
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
F	Highly flammable
Xi	Irritant

#### Risk Phrases

R11	Highly flammable.
R36	Irritating to eyes.
R67	Vapours may cause drowsiness and dizziness.

## Solo Smoke Detector Tester

### **Disclaimers**

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

No information available.