



Solo Smoke Detector Tester
SAFETY DATA SHEET
 SDS0098US-EN
 ACCORDING TO US CFR 1910.1200

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

1.1 Product identifier	Product Name	Solo Smoke Detector Tester.
	Trade Name	Solo A10 –XXX (XXX denotes customer variant).
	CAS No.	Mixture.
	EINECS No.	Mixture.
	REACH Registration No.	None assigned.
1.2 Relevant identified uses of the substance or mixture and uses advised against	Identified Use(s)	Smoke simulation.
	Uses Advised Against	None known.
1.3 Details of the supplier of the safety data sheet	Company Identification	SDi LLC 3535 State Highway 66, Parkway 100 Building 6 Neptune, NJ 07753 USA (732) 751 9266 (732) 751 9241 sales@sdfire.com
	Telephone	
	Fax	
	E-Mail (competent person)	
1.4 Emergency telephone number	Emergency Phone No.	1-800-535-5053
1.5 Address of Manufacturer		Detector testers (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@detector testers.com

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	US CFR 1910.1200	Gases under pressure: Liquefied gas; Contains gas under pressure; may explode if heated.
2.2 Label elements	Hazard Pictogram(s)	 
	Signal Word(s)	Warning.
	Hazard Statement(s)	H229: Pressurised container: May burst if heated.
	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. P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C. 9.1% by mass of the contents are flammable.
2.3 Additional Information		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

Hazardous Ingredient(s)	%W/W	CAS No.
(1E)-1,3,3,3-Tetrafluoro-1-propene	85-95	29118-24-9
Ethanol	1-10	64-17-5
Propane-1,2-diol	<0.5	57-55-6
Polyethylene glycol 200	<0.5	25322-68-3
Glycerol	<0.1	56-81-5

3.2 Additional Information

None.

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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 skin with 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.

SECTION 5: FIREFIGHTING MEASURES

- Pressurised container: May burst if heated.
- 5.1 Extinguishing media**
Suitable Extinguishing media
Unsuitable extinguishing media
Extinguish with carbon dioxide, dry chemical, foam or waterspray.
None known.
- 5.2 Special hazards arising from the substance or mixture**
Heating may cause pressure rise with risk of bursting. May decompose in a fire giving off toxic fumes. Hydrogen fluoride.
- 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. In case of rupture, released content should be contained as any other solvent spill.

- 6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation. Avoid inhalation of high concentrations of vapours.
- 6.2 Environmental precautions**
Do not release large quantities into the surface water or into drains.
- 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. 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.
- 7.2 Conditions for safe storage, including any incompatibilities**
Storage temperature
Storage life
Incompatible materials
Ambient. Protect from sunlight. Do not expose to temperatures exceeding 50°C.
Stable under normal conditions.
None known.
- 7.3 Specific end use(s)**
Smoke simulation.

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 ³)	STEL (ppm)	STEL (mg/m ³)	Note
Ethanol	64-17-5	1000	1900	-	-	NIOSH REL
		1000	1900	-	-	OSHA PEL
Glycerol	56-81-5	800	5	-	-	NIOSH REL
		800	-	-	-	WEEL. US
(1E)-1,3,3,3-Tetrafluoro-1-propene	29118-24-9	800	-	-	-	
		800	-	-	-	

Source:

NIOSH = National Institute of Occupational Safety & Health
OSHA = Occupational Safety and Health Administration

- 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**

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Eye/ face protection



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

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.

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	Characteristic.
Odour Threshold (ppm)	Not determined.
pH (Value)	Not determined.
Melting Point (°C) / Freezing Point (°C)	Not determined.
Initial boiling point and boiling range	-2.2°F (-19°C)
Flash Point (°C)	>131°F (55°C)
Evaporation rate	Not applicable.
Flammability (solid, gas)	Non-flammable; Tested to CFR 1910.1200 Appendix B – B.3
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	4192hPa @ 68°F
Vapour density	Not determined.
Relative density	Not determined.
Density	67.42lb/ft ³
Solubility(ies)	Immiscible or partly miscible with water.
Partition Coefficient (n-Octanol/water)	Not determined.
Auto Ignition Point (°C)	Product is not selfigniting.
Ignition temperature	694.4°F (368°C)
Decomposition Temperature (°C)	Not determined.
Dynamic viscosity	Not determined.
Kinematic Viscosity	Not determined.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2 Other information

Organic solvents - Content	9.9%
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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

11.1 Information on toxicological effects

11.1.1 Mixtures

Acute toxicity	Low acute toxicity.
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.
Reproductive toxicity	None anticipated.
11.2 Other information	None.

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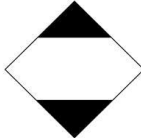
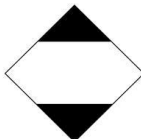


SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Low toxicity to aquatic organisms.
12.2	Persistence and degradability	No information available.
12.3	Bioaccumulative potential	No information available.
12.4	Mobility in soil	No information available.
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.

SECTION 14: TRANSPORT INFORMATION

14.1	UN number ADR, IMDG, IATA	UN 1950.
14.2	UN proper shipping name ADR IMDG IATA	1950 AEROSOLS AEROSOLS AEROSOLS, Non-flammable.
14.3	Transport hazard class(es) ADR Class / Classification Label IMDG, IATA Class / Division Label	2 5A Gases. 2.2 2.2 2.2
14.4	Packing group ADR, IMDG, IATA	None.
14.5	Environmental hazards Marine Pollutant	None.
14.6	Special precautions for user Kemler Code IMDG EMS	Warning: Gases - F-D, S-U
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
14.8	Additional Information ADR Limited Quantity (LQ)	1L 
	ADR Transport Category Tunnel Restriction Code IMDG Limited Quantity (LQ)	3 Not applicable in Limited Quantities.
		1 
	IATA Limited Quantity (LQ)	1'  
	UN Model Regulation US	UN 1950, AEROSOLS ORM-D when transported in limited quantities (< 30kg or 66lb gross weight).

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SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1	OSHA	
	Toxic and hazardous substances (29 CFR 1910; Subpart Z)	64-17-5, 57-55-6, 25322-68-3, 56-81-5.
	National emission standards for hazardous air pollutants (40 CFR 61.01)	All chemicals are not listed
15.1.2	Title III Consolidated List of Lists Technical Instructions (air)	All chemicals are not listed
15.1.3	OSPAR List of Chemicals for Priority Action	All chemicals are not listed
15.1.4	State Right to Know Lists	Ethanol (CAS 64-17-5): Minnesota, New Jersey, Pennsylvania, Rhode Island Propane-1,2-diol (CAS 57-55-6): Minnesota, New Jersey, Pennsylvania, Rhode Island Glycerol (CAS 56-81-5): Minnesota, New Jersey, Pennsylvania, Rhode Island Poly(ethylene) glycol (CAS 25322-68-3): Minnesota
15.1.5	TSCA (Toxic Substance Control Act)	All chemicals listed
15.1.6	Proposition 65 (California)	All chemicals are not listed
15.1.7	CAA 602 - Ozone Depleting Substances (ODS)	All chemicals are not listed

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 3.

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
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
Flam. Liq. 2	Flammable Liquid Category 2

Hazard Statement(s)

H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H335	May cause respiratory irritation.

Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

No information available.