

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.
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
Telephone	(732) 751 9266
Fax	(732) 751 9241
E-mail	sales@sdifire.com
1.4 Emergency telephone number	
Emergency Phone No.	1-800-535-5053
1.5 Address of Manufacturer	
Telephone	Detector testers (No Climb Products Ltd), Edison House, 163 Dixons Hill Road, Welham Green, Hertfordshire. AL9 7JE. United Kingdom
Fax	+44 (0) 1707 282760
E-mail	+44 (0) 1707 282777 SDS@detectortesters.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)	GHS04 GHS07
Hazard Statement(s)	Warning.
Precautionary Statement(s)	H229: Pressurised container: May burst if heated. 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.
2.3 Additional Information	9.1% by mass of the contents are flammable: Keep out of reach of children.
2.4 Other hazards	High concentrations: May cause drowsiness and dizziness.

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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

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	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. 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.

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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: Ambient. Protect from sunlight. Do not expose to temperatures exceeding 50°C.
 - Storage life: Stable under normal conditions.
 - Incompatible materials: 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		5	-	-	NIOSH REL
(1E)-1,3,3,3-Tetrafluoro-1-propene	29118-24-9	800	-	-	-	WEEL. US
		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

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)

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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.

SECTION 12: ECOLOGICAL INFORMATION

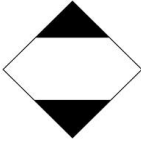
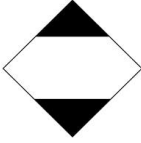
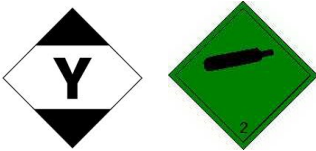
12.1 Toxicity	Low toxicity to aquatic organisms.
12.2 Persistence and degradability	No information available.
12.3 Bioaccumulative potential	No information available
12.4 Mobility in soil	No information available.
12.5 Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6 Other adverse 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.

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SECTION 14: TRANSPORT INFORMATION

14.1 UN number	UN 1950.
ADR, IMDG, IATA	
14.2 UN proper shipping name	1950 AEROSOLS
ADR	AEROSOLS
IMDG	AEROSOLS, Non-flammable.
IATA	
14.3 Transport hazard class(es)	
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	None.
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 MARPOL 73/78 and the IBC Code	Not applicable.
14.8 Additional Information	
ADR	
Limited Quantity (LQ)	1L
	
ADR Transport Category	3
Tunnel Restriction Code	Not applicable in Limited Quantities.
IMDG	
Limited Quantity (LQ)	1L
	
IATA	
Limited Quantity (LQ)	1L
	
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)

National emission standards for hazardous air pollutants (40 CFR 61.01)

64-17-5, 57-55-6, 25322-68-3, 56-81-5.

All chemicals are not listed

15.1.2 Title III Consolidated List of Lists

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: 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
VOC	Volatile Organic Compounds
NIOSH	National Institute of Occupational Safety & Health
OSHA	Occupational Safety and Health Administration
PEL (OSHA)	Permitted Exposure Level
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

Disclaimers

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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.