



Solo Smoke Detector Tester  
**SAFETY DATA SHEET**  
 SDS0066US  
 ACCORDING TO US CFR 1910.1200

**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 A4 - XXX (XXX denotes customer variant).
	CAS No.	Mixture.
	EINECS No.	Mixture.
<b>1.2 Recommended use of the chemical and restrictions on use</b>	Identified Use(s)	Smoke simulation.
	Uses Advised Against	None known.
<b>1.3 Details of the supplier of the safety data sheet</b>		
<b>1.3.1 Distributor</b>	Company Identification	SDi 1345 Campus Parkway, Suite A18 Wall Township, NJ 07753 6815
	Telephone	(732) 751 9266
	Fax	(732) 751 9241
	E-mail	sales@sdfire.com
<b>1.4 Emergency telephone number</b>	Info Trac	1-800-535-5053

**2. SECTION 2: HAZARDS IDENTIFICATION**

<b>2.1 Classification of the substance or mixture</b>	
<b>2.1.1 US CFR 1910.1200</b>	Gases under pressure: Liquefied gas; Contains gas under pressure; may explode if heated. Causes serious eye irritation.
<b>2.2 Label elements</b>	
Product Name	Solo Smoke Detector Tester.
Hazard Pictogram(s)	 
Signal Word(s)	GHS04      GHS07 Warning.
Hazard Statement(s)	H280: Contains gas under pressure; may explode if heated. H319: Causes serious eye irritation.
Precautionary Statement(s)	P264: Wash hands thoroughly after handling. P337+P313: If eye irritation persists: Get medical advice/attention. P410+P403: Protect from sunlight. Store in a well-ventilated place.

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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.

Additional Information

14.5 % by mass of the contents are flammable.  
Do not pierce or burn, even after use.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 122°F (50°C).  
Keep out of the reach of children. Keep away from combustible material. Keep away from sources of ignition - No smoking.

**2.3 Other hazards** High concentrations: May cause drowsiness and dizziness.

**2.4 Additional Information** None.

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

Product as supplied: Aerosol.

#### 3.1 Mixtures

Hazardous Ingredient(s)	CAS No.	%W/W
1,1,1,2-tetrafluoroethane	811-97-2	50 - 100
Propan-2-ol	67-63-0	10 - 25

#### 3.2 Additional Information

None.

### 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

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.



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### 5. SECTION 5: FIRE-FIGHTING MEASURES

Pressurized container: May burst if heated.

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| <b>5.1 Extinguishing Media</b><br>Suitable Extinguishing Media   | Extinguish with carbon dioxide, dry chemical, foam or water spray.   |
| Unsuitable Extinguishing Media                                   | None known.  |
| <b>5.2 Special hazards arising from the substance or mixture</b> | Heating may cause pressure rise with risk of bursting.   |
| <b>5.3 Advice for fire-fighters</b>                              | 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. |

### 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 vapors. 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 vapors. Avoid contact with eyes. 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> | Protect from sunlight. Store in a well-ventilated place.  |
| Storage temperature   | Ambient.<br>Protect from sunlight and do not expose to temperatures exceeding 122 °F (50 °C).   |
| Storage life  | Stable under normal conditions.   |
| Incompatible materials  | None anticipated.   |

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### 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	-	-	-	-	Not established
Propan-2-ol	67-63-0	400	980	500	1225	NIOSH
		400	980	-	-	PEL (OSHA)

Source:

NIOSH = National Institute of Occupational Safety & Health

OSHA = Occupational Safety and Health Administration

#### 8.2 Appropriate engineering controls

Provide adequate ventilation.

#### 8.3 Individual protection measures, such as personal protective equipment (PPE)

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.

### 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Appearance

Aerosol.

Color

Colorless.

Odor

Characteristic.

Odor Threshold

Not determined.

pH

Not determined.

Melting Point/Freezing Point

Not determined.

Initial boiling point and boiling range

-14.8°F (-26 °C)

Flash Point

55.4°F (13 °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

Explosive Limit Ranges: 2.0 – 12.0 Vol-%

Vapor pressure

60.7 psig (5.2 bar) @ 68°F

Density

70.67 lb/ft<sup>3</sup> (1.132 g/cm<sup>3</sup>) @ 68°F

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Vapor density	Not determined.
Relative density	Not determined.
Solubility(ies)	Immiscible with water.
Partition coefficient: n-octanol/water	Not determined.
Ignition temperature	797°F (425 °C)
Auto-ignition temperature	Product is not selfigniting.
Decomposition Temperature	Not determined.
Kinematic Viscosity	Not determined.
Explosive properties	Contains gas under pressure; may explode if heated.
Oxidizing properties	Not oxidizing.
<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>Mixtures</b>	
<b>Acute toxicity</b>	Low acute toxicity.
<b>Irritation</b>	Causes serious eye irritation.
<b>Corrosivity</b>	Not classified.
<b>Sensitization</b>	It is not a skin sensitizer.
<b>Repeated dose toxicity</b>	None anticipated.
<b>Carcinogenicity</b>	No evidence of carcinogenicity.
<b>Mutagenicity</b>	There is no evidence of mutagenic potential.
<b>Toxicity for reproduction</b>	None anticipated.
<b>Aspiration hazard</b>	None anticipated.
<b>11.2 Other information</b>	None.

### 12. SECTION 12: ECOLOGICAL INFORMATION

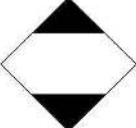
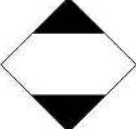


<b>12.1 Toxicity</b>	Low toxicity to aquatic organisms.
<b>12.2 Persistence and degradability</b>	The product is readily biodegradable. Unlikely to persist.
<b>12.3 Bioaccumulative potential</b>	The product has no potential for bioaccumulation.
<b>12.4 Mobility in soil</b>	Immiscible with water. The product is predicted to have low mobility in soil.
<b>12.5 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

<p><b>14.1 UN number</b> <b>ADR, IMDG, IATA, TDG</b></p>	<p>UN 1950</p>
<p><b>14.2 UN Proper Shipping Name</b> <b>ADR</b> <b>IMDG, TDG</b> <b>IATA</b></p>	<p>1950 AEROSOLS AEROSOLS AEROSOLS, Non-flammable</p>
<p><b>14.3 Transport hazard class(es)</b> <b>ADR</b> Class / Classification Label</p> <p><b>IMDG, IATA, TDG</b> Class / Division Label</p>	<p>2 5A Gases. 2.2</p> <p>2.2 2.2</p>
<p><b>14.4 Packing Group</b> <b>ADR, IMDG, IATA</b></p>	<p>None.</p>
<p><b>14.5 Environmental hazards</b> Marine Pollutant</p>	<p>No.</p>
<p><b>14.6 Special precautions for user</b> Kemler Code IMDG EMS</p>	<p>Warning: Gases. - F-D, S-U</p>
<p><b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></p>	<p>Not applicable.</p>
<p><b>14.8 Additional Information</b> <b>ADR</b> Limited Quantity (LQ)</p> <p>ADR Transport Category Tunnel Restriction Code</p> <p><b>IMDG, TDG</b> Limited Quantity (LQ)</p> <p><b>IATA, TDG</b> Limited Quantity (LQ)</p> <p>UN Model Regulation US</p>	<p>1 L</p>  <p>3 Not applicable in Limited Quantities.</p> <p>1L</p>  <p>1L</p>   <p>UN 1950, AEROSOLS, 2.2 ORM-D when transported in limited quantities (&lt; 30kg or 66lb gross weight).</p>



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### 15. 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) All chemicals are not listed.  
 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 Sec 313**  
 Listed: Propan-2-ol (CAS No.: 67-63-0) 313
- 15.1.3 OSPAR List of Chemicals for Priority Action**  
 All chemicals are not listed.
- 15.1.4 State Right to Know Lists**  
 1,1,1,2-tetrafluoroethane (CAS No.: 811-97-2):  
 New Jersey, Pennsylvania, Massachusetts, Rhode Island.  
 Propan-2-ol (CAS No.: 67-63-0):  
 New Jersey, Pennsylvania, Massachusetts, California, 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.

### 16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 2, 3, 4, 8, 11, 16.

NFPA		HMIS	
Health	1	Health	1
Fire	0	Flammability	0
Instability	1	Physical hazards	1

#### LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
NIOSH	National Institute of Occupational Safety & Health
PEL	Permissible Exposure Limits
CAA	Clean Air Act
OSHA	Occupational Safety and Health Administration
OSPAR	Oslo and Paris Convention
ADR	Accord européen relative 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
TDG	Transportation of Dangerous Goods



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