# Solo Smoke Detector Tester

## SAFETY DATA SHEET

### ACCORDING TO US CFR 1910.1200

## 1. 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 A4 - XXX (XXX denotes customer variant).

**CAS No.**: Mixture.

**EINECS No.**: Mixture.

### 1.2 Recommended use of the chemical and restrictions on use

**Identified Use(s)**: Smoke simulation.

**Uses Advised Against**: None known.

### 1.3 Details of the supplier of the safety data sheet

#### 1.3.1 Distributor

**Company Identification**: SDi

1345 Campus Parkway, Suite A18

Wall Township, NJ 07753 6815

**Telephone**: (732) 751 9266

**Fax**: (732) 751 9241

**E-mail**: sales@sdifire.com

### 1.4 Emergency telephone number

**Info Trac**: 1-800-535-5053

## 2. SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### 2.1.1 US CFR 1910.1200

- **Gases under pressure**: Liquefied gas; Contains gas under pressure; may explode if heated.
- **Causes serious eye irritation**.

### 2.2 Label elements

**Product Name**: Solo Smoke Detector Tester.

**Hazard Pictogram(s)**:

- GHS04
- GHS07

**Signal Word(s)**: 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.
Solo Smoke Detector Tester

Additional Information

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 (50ºC).
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

<table>
<thead>
<tr>
<th>Hazardous ingredient(s)</th>
<th>CAS No.</th>
<th>%W/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1,2-tetrafluoroethane</td>
<td>811-97-2</td>
<td>50 - 100</td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>67-63-0</td>
<td>10 - 25</td>
</tr>
</tbody>
</table>

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.

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 route of exposure.

Unlikely to be required but if necessary treat symptomatically.
5. SECTION 5: FIRE-FIGHTING MEASURES

Pressurized container: May burst if heated.

5.1 Extinguishing Media

Suitable Extinguishing Media: Extinguish with carbon dioxide, dry chemical, foam or water spray.

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.

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.

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid inhalation of high concentrations of vapors. Wear suitable gloves and eye/face protection.

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. Transfer to a lidded container for disposal or recovery. Containers must not be punctured or destroyed by burning, even when empty.

6.4 Reference to other sections

See Also Section: 8, 13.

7. 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. 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.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature: Ambient. Protect from sunlight. Store in a well-ventilated place.

Storage life: Stable under normal conditions.

Incompatible materials: None anticipated.
8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
8.1.1 Occupational Exposure Limits

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>CAS No.</th>
<th>LTEL (8 hr TWA ppm)</th>
<th>LTEL (8 hr TWA mg/m³)</th>
<th>STEL (ppm)</th>
<th>STEL (mg/m³)</th>
<th>Note</th>
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<tbody>
<tr>
<td>1,1,1,2-tetrafluoroethane</td>
<td>811-97-2</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Not established</td>
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<tr>
<td>Propan-2-ol</td>
<td>67-63-0</td>
<td>400</td>
<td>980</td>
<td>500</td>
<td>1225</td>
<td>NIOSH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>980</td>
<td>-</td>
<td>-</td>
<td>PEL (OSHA)</td>
</tr>
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</table>

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.
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/ft³ (1.132 g/cm³) @ 68°F
Solo Smoke Detector Tester

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.

9.2 Other information
Organic solvents - Content 14.8%

10. 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 Stable under normal conditions.
10.4 Conditions to avoid Heat and direct sunlight.
10.5 Incompatible materials None anticipated.
10.6 Hazardous decomposition product(s) None known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Mixtures
Acute toxicity Low acute toxicity.
Irritation Causes serious eye irritation.
Corrosivity Not classified.
Sensitization It is not a skin sensitizer.
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.

11.2 Other information None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity Low toxicity to aquatic organisms.
12.2 Persistence and degradability The product is readily biodegradable. Unlikely to persist.
12.3 Bioaccumulative potential The product has no potential for bioaccumulation.
12.4 Mobility in soil Immiscible with water. The product is predicted to have low mobility in soil.
12.5 Other adverse effects None.

13. 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.
## 14. SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number
ADR, IMDG, IATA, TDG UN 1950

### 14.2 UN Proper Shipping Name
ADR 1950 AEROSOLS IMDG, TDG AEROSOLS IATA AEROSOLS, Non-flammable

### 14.3 Transport hazard class(es)

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<thead>
<tr>
<th>ADR</th>
<th>IMDG, TDG</th>
<th>IATA</th>
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<tbody>
<tr>
<td>Class / Classification</td>
<td>2 5A Gases.</td>
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<td>Label</td>
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### 14.4 Packing Group
ADR, IMDG, IATA None.

### 14.5 Environmental hazards

<table>
<thead>
<tr>
<th>Marine Pollutant</th>
<th>IMDG, TDG</th>
<th>IATA</th>
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<tbody>
<tr>
<td>No.</td>
<td></td>
<td></td>
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### 14.6 Special precautions for user

<table>
<thead>
<tr>
<th>Warning: Gases.</th>
<th>IMDG EMS</th>
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<tbody>
<tr>
<td>F-D, S-U</td>
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</tbody>
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### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

### 14.8 Additional Information

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG, TDG</th>
<th>IATA, TDG</th>
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<tbody>
<tr>
<td>Limited Quantity (LQ)</td>
<td>1 L</td>
<td>1L</td>
</tr>
<tr>
<td>ADR Transport Category</td>
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<tr>
<td>Tunnel Restriction Code</td>
<td>Not applicable in Limited Quantities.</td>
<td></td>
</tr>
<tr>
<td>IMDG, TDG</td>
<td>Limited Quantity (LQ)</td>
<td>1L</td>
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</table>

### 14.9 Additional Information

<table>
<thead>
<tr>
<th>UN Model Regulation</th>
<th>US</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN 1950, AEROSOLS, 2.2</td>
<td>ORM-D when transported in limited quantities (&lt; 30kg or 66lb gross weight).</td>
</tr>
</tbody>
</table>

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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
Listed: Propan-2-ol (CAS No.: 67-63-0) Sec 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.

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
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<tr>
<td>Fire</td>
<td>0</td>
</tr>
<tr>
<td>Instability</td>
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</table>

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 relatif au transport international des marchandises dangereuses par route
(IM-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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