Solo Smoke Detector Tester

SAFETY DATA SHEET

SDS0096US-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
Telephone: (732) 751 9266
Fax: (732) 751 9241
E-Mail (competent person): sales@sdifire.com

1.4 Emergency telephone number

Emergency Phone No.: 1-800-535-5053

1.5 Address of Manufacturer

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

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):
- GHS04
- GHS07

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.

2.3 Additional Information

9.1% by mass of the contents are flammable:
Keep out of reach of children.
High concentrations: May cause drowsiness and dizziness.

2.4 Other hazards

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

3.1 Mixtures

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

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

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.

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

<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>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>1000</td>
<td>1900</td>
<td>-</td>
<td>-</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td>Glycerol</td>
<td>56-81-5</td>
<td>1000</td>
<td>1900</td>
<td>-</td>
<td>-</td>
<td>OSHA PEL</td>
</tr>
<tr>
<td>(1E)-1,3,3,3- Tetrfluoro-1-propene</td>
<td>29118-24-9</td>
<td>800</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>WEEL US</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

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
Solo Smoke Detector Tester

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.

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/ft³
- 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%

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 sensitisier.
- 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.

### SECTION 14: TRANSPORT INFORMATION

14.1 UN number

- ADR, IMDG, IATA
- UN 1950.

14.2 UN proper shipping name

- ADR
- 1950 AEROSOLS
- IMDG
- AEROSOLS
- IATA
- AEROSOLS, Non-flammable.

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

- Kemler Code: Warning: Gases
- 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
  - 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).
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)
OSHA
Toxic and hazardous substances (29 CFR 1910; Subpart Z)
National emission standards for hazardous air pollutants (40 CFR 61.01)
OSHA
Toxic and hazardous substances (29 CFR 1910; Subpart Z)
National emission standards for hazardous air pollutants (40 CFR 61.01)

15.1.2 Title III Consolidated List of Lists
Technical Instructions (air)

15.1.3 OSPAR List of Chemicals for Priority Action
Ethanol (CAS 64-17-5):
Minnesotta, New Jersey, Pennsylvania, Rhode Island
Propane-1,2-diol (CAS 57-55-6):
Minnesotta, New Jersey, Pennsylvania, Rhode Island
Glycerol (CAS 56-81-5):
Minnesotta, New Jersey, Pennsylvania, Rhode Island
Poly(ethylene) glycol (CAS 25322-68-3):
Minnesota

15.1.4 State Right to Know Lists
All chemicals are not listed

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.

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Annex to the extended Safety Data Sheet (eSDS)
No information available.