



SAFETY DATA SHEET

SDS0098CA-EN

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

<p>1.1 Product identifier Product Name Trade Name CAS No. EINECS No. REACH Registration No.</p> <p>1.2 Relevant identified uses of the substance or mixture and uses advised against Identified Use(s) Uses Advised Against</p> <p>1.3 Details of the supplier of the safety data sheet Company Identification Telephone Fax E-mail</p> <p>1.4 Emergency telephone number Emergency Phone No.</p> <p>1.5 Address of Manufacturer Telephone Fax E-mail</p>	<p>Solo Smoke Detector Tester. Solo A10 –XXX (XXX denotes customer variant). Mixture. Mixture. None assigned.</p> <p>Smoke simulation. None known.</p> <p>SDi, LLC, 3535 State Highway 66, Parkway 100 Building 6, Neptune NJ 07753, USA (732) 751 9266 (732) 751 9241 sales@sdfire.com</p> <p>1-800-535-5053 Detectortesters (No Climb Products Ltd), Edison House, 163 Dixons Hill Road, Welham Green, Hertfordshire. AL9 7JE. United Kingdom +44 (0) 1707 282760 +44 (0) 1707 282777 SDS@detectortesters.com</p>
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SECTION 2: HAZARDS IDENTIFICATION

<p>2.1 Classification of the substance or mixture WHMIS Classification</p> <p>2.2 Label elements Hazard Pictogram(s)</p> <p>Signal Word(s) Hazard Statement(s) Precautionary Statement(s)</p>	<p>Gases under pressure: Liquefied gas; Contains gas under pressure; may explode if heated.</p> <div style="text-align: center;">   </div> <p>GHS04 GHS07</p> <p>Warning. 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. 9.1% by mass of the contents are flammable: Keep out of reach of children. High concentrations: May cause drowsiness and dizziness.</p>
<p>2.3 Additional Information</p> <p>2.4 Other hazards</p>	<p>Additional Information: 9.1% by mass of the contents are flammable: Keep out of reach of children.</p> <p>Other hazards: High concentrations: May cause drowsiness and dizziness.</p>

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

For full text of H/P Statements see section 16.

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.
 Wash skin with soap and water.

Skin Contact

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.

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	-	Canada (Ontario)
		-	1900	1000	1880	Canada (Quebec)
Glycerol	56-81-5	-	-	10	-	Canada (Quebec)
(1E)-1,3,3,3-Tetrafluoro-1-propene	29118-24-9	800	-	-	-	WEEL US

Source:

CCOHS = Canadian Centre for Occupational Health and Safety

- Règlement 833 (Canada, Ontario)

- Règlement sur la santé et la sécurité du travail (Canada, Québec)

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.

**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%

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.

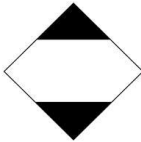
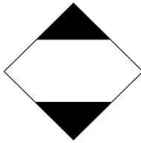


SECTION 14: TRANSPORT INFORMATION

14.1	UN number	
	ADR, IMDG, IATA	UN 1950.
14.2	UN proper shipping name	
	ADR	1950 AEROSOLS
	IMDG	AEROSOLS



Specialized Fire Products

Solo Smoke Detector Tester

IATA	AEROSOLS, Non-flammable.
14.3 Transport hazard class(es)	
ADR	2 5A Gases.
Class / Classification	2.2
Label	
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	
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	UN 1950, AEROSOLS
US	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	
Domestic Substances List (DSL)	All chemicals listed
Export Control List	All chemicals are not listed
Priority Substances List (PSL)	All chemicals are not listed
Toxic Substances List	All chemicals are not listed
National Pollutant Release Inventory (NPRI)	Listed: Ethanol (CAS No.: 64-17-5) for over 10% content
Substance List	

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1,3.

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



Solo Smoke Detector Tester

Specialized Fire Products

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

The information is based on the best knowledge of SDi and its advisors and is given in good faith, but we cannot guarantee its accuracy, reliability or completeness and therefore disclaim any liability for loss or damage arising out of use of this data. Since conditions of use are 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.