

#### PRODUCT INFORMATION

**Product Name:** Solo Smoke Detector Tester

**Trade Name:** Solo A10 -XXX, Solo A10s -XXX (XXX denotes customer variant).

**CAS No. Mixture**

**EINECS No. Mixture**

**Reach Registration No.** None assigned

#### Relevant identified uses of the substance or mixture & uses advised against

**Identified Uses:** Smoke simulation

**Uses advised against:** None known

#### Manufacturer / Supplier information

**Company:** Detectortesters (No Climb Products Pty Ltd)

Edison House

163 Dixons Hill Road

Welham Green

Herefordshire AL9 7JE

United Kingdom

**Telephone:** +44 (0) 1707 282760

**Email:** SDS@detectortesters.com

**Supplier:** FireSense Pty Ltd, 18-20 Brookhollow Avenue, Norwest, NSW 2153, Tel - 02 8850 2888

#### Revision Status

4 February 2019. Revision 4.

#### COMPOSITION

**Product as supplied:** Aerosol

**Mixtures:** EC Classification No 1272/2008

#### Hazardous Ingredients

Chemical Name	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazardous Statement(s)
(1E)-1,3,3,3-tetrafluoro-1-propene	85-95	29118-24-9	471-480-0	None assigned	GHS04, Press. GasGas: H280
Ethanol	1-10	64-17-5	200-578-6	None assigned	GHS02, Flam. liq. 2: H225

#### HAZARD IDENTIFICATION

**Classification of the substance or mixture Regulation (EC) No. 1272/2008 (CLP)**

Aerosol 3; Pressurised container: May burst if heated

**Label Elements:** According to Regulation (EC) No. 1272/2008 (CLP)



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.
Additional Information	9.1% by mass of the contents are flammable: Keep out of reach of children.
Other hazards	High concentrations: may cause drowsiness and dizziness

### FIRST AID MEASURES

Inhalation	If breathing is difficult, remove victim to fresh air and keep it 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 mins while holding eyelids open. If eye irritation persists, get medical advice/attention	
Ingestion	Unlikely route of exposure	
Most important symptoms and effects, both acute and delayed	None anticipated	
Indication of any immediate medical attention and special treatment needed	Unlikely to be required but if necessary treat symptomatically	

### FIRE FIGHTING MEASURES

Pressurised container, may burst if heated.

Suitable extinguishing media	Extinguish with carbon dioxide, dry chemical, foam or waterspray
Unsuitable extinguishing media	None known
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.
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.

### 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.

Personal precautions, protective equipment and emergency procedures	Ensures adequate ventilation. Avoid inhalation of high concentrations of vapors.
Environmental precautions	Do not release large quantities into the surface water or into drains.
Methods and material for containment and cleaning up	Collect mechanically and dispose of according to Section 13. Absorb spillages onto sand, earth or any suitable absorbent material. Containers must not be punctured or destroyed by burning, even when empty.

## HANDLING AND STORAGE

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.
Storage temperature	Ambient. Protect from sunlight. Do not expose to temperatures exceeding 50°C.
Storage life	Stable under normal conditions
Incompatible materials	None known
Specific end use(s)	Smoke simulation

## EXPOSURE CONTROLS/PERSONAL PROTECTION

### 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
Ethanol	64-17-5	1000	1920	-	-	WEL: Workplace Exposure Limit (UK HSE EH40)
Propane-1,2-diol	57-55-6	-	10	-	-	WEL: Workplace Exposure Limit (UK HSE EH40)

Biological limit value	Not established
PNECs and DNELs	Not established
Appropriate engineering controls	Provide adequate ventilation
Eye/Face protection	If eye contact is likely: wear protective eyewear (goggles, face shield, or safety glasses)
Skin protection	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. A suitable mask with filter type A (EN14387 or EN405) may be appropriate.
Thermal hazards	Not applicable
Environmental exposure controls	Avoid release to the environment

## PHYSICAL & CHEMICAL PROPERTIES

Appearance	Aerosol
Colour	Colourless
Odour	Characteristic
Odour threshold (ppm)	Not determined
pH (value)	Not determined
Melting/freezing point	Not determined
Initial boiling point	-19°C
Flash point	>55°C
Evaporation rate	Not applicable

Flammability (solid, gas)	Non-flammable; tested to 2008/47/EC Annex 1.9.1
Upper/lower flammability or explosive limits	Not determined
Vapour pressure	Not determined
Vapour density	Not determined
Relative density	Not determined
Density	1.08g/cm <sup>3</sup>
Solubility	Immiscible or partly miscible with water
Partition coefficient (n-Octanol/water)	Not determined
Auto ignition point	Product is not self-igniting
Ignition temperature	368°C
Decomposition temperature	Not determined
Dynamic viscosity	Not determined
Kinematic viscosity	Not determined

## STABILITY & REACTIVITY

Reactivity	Stable under normal conditions
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	No hazardous reactions known if used for its intended purpose
Conditions to avoid	Heat and direct sunlight
Incompatible materials	None anticipated
Hazardous decomposition product(s)	No hazardous decomposition products known

## TOXICOLOGICAL INFORMATION

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

## ECO-TOXOLOGICAL INFORMATION

Toxicity	Low toxicity to aquatic organisms
Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Results of PBT and vPvB assessment	Not classified as PBT or vPvB
Other adverse effects	None

## DISPOSAL CONSIDERATIONS

**Waste treatment methods:** Recycle only completed 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.

**Additional Information:** Disposal should be in accordance with local, state or national legislation.

## TRANSPORT INFORMATION

**UN Number ADR, IMDG, IATA:** UN 1950

**UN proper shipping name**

**ADR:** 1950 AEROSOLS

**IMDG:** AEROSOLS

**IATA:** AEROSOLS, Non-Flammable

**Transport hazard class(es)**

**ADR Class / Classification:** 2 5A gases

**Label:** 2.2

**IMDG, IATA Class / Division:** 2.2

**IMDG, IATA Label:** 2.2

**Packing Group**

**ADR, IMDG, IATA:** None.

**Environmental hazards**

**Marine Pollutant:** None.

**Special precautions for user**

**Warning:** Gases

**IMDG EMS:** F-D, S-U

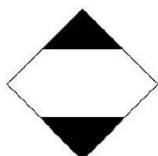
**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable

#### Additional Information

##### ADR

Limited Quantity (LG)

1L



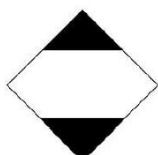
ADR Transport Category: 3

Tunnel Restriction Code: Not applicable in limited quantities

##### IMDG

Limited Quantity (LG)

1L



##### IATA

Limited Quantity (LG)

1L



UN Model Regulation: UN 1950, AEROSOLS

#### REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU regulations

Authorisations and/or Restrictions on Use Candidate List of: Not listed

Substances of Very High Concern for Authorisation: Not listed

REACH: ANNEX XV11 restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles: Not listed

REACH: ANNEX XIV list of substances subject to authorisation: Not listed

Community Rolling Action Plan (CoRAP): None known

##### National Regulations

Wassergefährdungsklasse (Germany): WGK Class 1

Technical Instructions (air):

Class	Share in %
NK	5 - <10

VOC-CH: 9.49%

VOC-EU: 102.5g/l

Danish MAL Code: 0-1

Chemical Safety Assessment: Not available

## OTHER INFORMATION

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### 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 labelling 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

**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.