detectortesters
testing technology from No Climb

Solo Smoke Detector Tester

SAFETY DATA SHEET

SDS0086IE

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 1272/2008 & 2020/878

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 A5-XXX (XXX denotes customer variant)
CAS No.	Mixture
EINECS No.	Mixture
REACH Registration No.	None assigned.
UFI	S5DP-5214-600G-G451

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 Only representative of a non-Community manufacturer

Company Identification	Shift-Consult Hubert Scherzinger, Hessenweier 9, 79108 Freiburg, Germany
Telephone	+49 7665 91 21 74

Manufacturer

Company Identification	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 (competent person)	SDS@detectortesters.com

1.4 Emergency telephone number

Emergency Phone No.	112

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Aerosol 1; Extremely flammable aerosol.
Pressurised container: May burst if heated.

2.2 Label elements

Hazard Pictogram(s) According to Regulation (EC) No. 1272/2008 (CLP)

GHS02

Signal Word(s)	Danger.
Hazard Statement(s)	H222: Extremely flammable aerosol. 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. P211: Do not spray on an open flame or other ignition source. 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 Other hazards None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

3.2 Substances

EC Classification No. 1272/2008

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Pictogram(s) and Hazard Statement(s)
Butane	50-100	106-97-8	203-448-7	01-2119474691-32	GHS02, Flam. Gas 1; H220, GHS04, Press. Gas: Liquefied gas; H280
Propane	10-25	74-98-6	200-827-9	01-2119486944-21	GHS02, Flam. Gas 1; H220, GHS04, Press. Gas: Liquefied gas; H280
Ethanol	0-5	64-17-5	200-578-6	01-2119457610-43	GHS02, Flam. Liq. 2; H225; Eye Irrit. 2, H319

HAZARDOUS INGREDIENT(S)	CAS No.	Specific Concentration Limit		M-factor	ATE
Ethanol	64-17-5	Eye Irrit. 2	C>= 50.00 <= 100.00		

3.3 Additional Information

In the Dutch Supplement published by the SZW Ethanol is listed as a substance and therefore subject to any national restriction on use in the workplace. 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.
Skin Contact	Wash skin with water.
Eye Contact	Flush eyes with water for at least 15 minutes while holding eyelids open.
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	Do not use water jet.

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.

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. 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. Absorb spillage in earth or sand. 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 and 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. Provide adequate ventilation. Do not eat, drink or smoke during work. Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities — Observe official regulations on storing packagings with pressurised containers.

Storage temperature — Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 deg C.

Storage life — Considered stable under normal conditions.

Incompatible materials — None anticipated.

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/m³)	STEL (ppm)	STEL (mg/m³)	Note
Butane	106-97-8	600	1450	750	1810	WEL
Ethanol	64-17-5	1000	1920	-	-	WEL

WEL: Workplace Exposure Limit (UK HSE EH40)

8.1.2 Biological limit value — Not established.

8.1.3 PNECs and DNELs — Not established.

8.2 Exposure controls — Provide adequate ventilation.

8.2.1 Appropriate engineering controls

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.

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.

8.2.3 Environmental Exposure Controls — Do not release large quantities into the surface water or into drains.

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.
Boiling point/boiling range (°C):	-44 °C
Flash Point (°C)	Not applicable

	Evaporation rate	Not available.
	Flammability (solid, gas)	Extremely flammable.
	Upper/lower flammability or explosive limits	Explosive Limit RangesExplosive Limit Ranges: 1.5-10.9 Vol-%
	Vapour pressure	3.8 bar @20 °C
	Density	0.58 g/cm^3 @20 °C
	Vapour density	Not determined.
	Relative density	Not determined.
	Solubility(ies)	Immiscible with water.
	Partition Coefficient (n-Octanol/water)	Not determined.
	Ignition temperature	365°C
	Auto Ignition Point (°C)	Product is not selfigniting
	Decomposition Temperature (°C)	Not determined.
	Kinematic ViscosityViscosity (mPa. s)	Not determined.
	Explosive properties	Not explosive.
	Oxidising properties	Not oxidising.
9.2	**Other information**	
	Organic solvents **-** Content	98.9%

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**	
	Acute toxicity	Low acute toxicity.
	Hazard label(s)	Non-irritant.
	Serious eye damage/irritation	Not classified.
	Respiratory or skin sensitization	It is not a skin sensitiser.
	Germ cell mutagenicity	There is no evidence of mutagenic potential.
	Carcinogenicity	No evidence of carcinogenicity.
	Reproductive toxicity	None anticipated.
	STOT - single exposure	Not classified
	STOT - repeated exposure	Not classified
	Aspiration hazard	None anticipated.
11.2	**Other information**	None.

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	**Results of PBT and vPvB assessment**	Not classified as PBT or vPvB.
12.6	**Endocrine disrupting properties**	None known.
12.7	**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.EAL 7055 Aerosol spray can

SECTION 14: TRANSPORT INFORMATION

14.1	**UN number**	UN 1950
	ADR Classification CodeIMDG, IATA Label	
14.2	**UN proper shipping name**	
	ADR Group	1950 AEROSOLS
	IMDG	AEROSOLS
	IATA Label	AEROSOLS, Flammable
14.3	**Transport hazard class(es)**	
	ADR Group	
	Class /Classification	2 5F Gases
	LabelADR-RID Labels	2.1
	IMDG, IATA Label	
	Class / Division	2.1
	Label	2.1
	Hazard label(s)	
14.4	**Packing group**	
	ADR Classification CodeIMDG, IATA Label	None.
14.5	**Environmental hazards**	No.
	Marine Pollutant	
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**	Not applicable.
14.8	**Additional Information**	
	ADR Classification Code	
	Limited Quantity (LQ)	1L
	ADR Transport Category	
	Tunnel Restriction Code	2
		Not applicable in Limited Quantities.
	IMDG	
	Limited Quantity (LQ)	1L
		
	IATA Label	
	Limited Quantity (LQ)	1L
		
	UN Model Regulation	UN1950 , AEROSOLS, 2.1

SECTION 15: REGULATORY INFORMATION

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

15.1.1 EU regulations

Authorisations and/or Restrictions On Use	All chemicals are not listed
Candidate List of Substances of Very High Concern for Authorisation	All chemicals are not listed

REACH: ANNEX XVII restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles	All chemicals are not listed
REACH: ANNEX XIV list of substances subject to authorisation	All chemicals are not listed
Community Rolling Action Plan (CoRAP)	None known.

15.1.2 National regulations

Wassergefährdungsklasse (Germany)	WGK class 1
Ethanol	
Technical Instructions (air)	

Class	Share in %
NK	50 – 100

	98.93%
VOC-CH	569.8g/l
VOC-EU	3-1
Danish MAL Code	

15.2 Chemical Safety Assessment — Not available.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 12.6, 12.7.

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
WGK	Wassergefährdungsklasse (Germany)
VOC	Volatile Organic Compounds
MAL Code	Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
ADR	Accord européen elative au transport international des marchandises dangereuse par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG	International Maritime Code for Damgerous Goods
IATA	International Air Transport Association
Press. Gas	Gases under pressure
Flam. Gas 1	Flammable gas.Flammable gas Category 1

Hazard Statement(s)

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H319	Causes serious eye irritation.

Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

No information available.