Solo Smoke Detector Tester

# SAFETY DATA SHEET

**SDS0086AU-F**

## 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. |

**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 | FlameStop Australia, 13 Chaplin Street, Lane Cove West, NSW, 2066. |
| Telephone | 02 9932 2020 |
| Fax | 02 9932 2022 |
| E-mail | sales@flamestop.com.au |

**1.4 Emergency telephone number**

| | |
|---|---|
| Emergency Phone No. | 0425 342 729 |

**1.5 Details of the 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 | SDS@detectortesters.com |

## SECTION 2: HAZARDS IDENTIFICATION

**2.1 Classification of the substance or mixture**

**According to GHS 7th revised edition**

Aerosol category 1; Extremely flammable aerosol.
Pressurised container: May burst if heated.

**2.2 Label elements**

According to GHS 7th revised edition

Hazard Pictogram(s)

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: Do not pierce or burn, even after use.
P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

**2.3 Other hazards**

None.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

**3.1 Mixtures**

GHS 7th Revised Edition

| 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 | None assigned | GHS02, Flam. Liq. 2; H225 |

**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. |
| Skin Contact | Wash skin with soap and 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: FIRE-FIGHTING 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. 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.

## 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 a naked flame or any incandescent material. 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 | Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. |
| Storage Life | 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**

**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. 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 | Not determined. |
| pH | Not determined. |
| Melting Point/Freezing Point | Not determined. |
| Initial boiling point and boiling range | -44 °C |

| | | |
|---|---|---|
| | Flash Point | Not applicable as an aerosol. |
| | Evaporation rate | Not available. |
| | Flammability (solid, gas) | Extremely flammable. |
| | Upper/lower flammability or explosive limits | Explosive Limit Ranges: 1.5 – 15.0 Vol-% |
| | Vapour pressure | 4.3 bar @ 20 °C |
| | Density | 0.58 g/cm³ @ 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 temperature | Product is not selfigniting. |
| | Decomposition Temperature | Not determined. |
| | Kinematic Viscosity | Not determined. |
| | Explosive properties | Not explosive. |
| | Oxidising properties | Not oxidising. |
| **9.2** | **Other information** | |
| | Organic solvents – Content | 96.4% |

## 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. |

## 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. |
| | **Toxicity for reproduction** | None anticipated. |
| | **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** | **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, Flammable

**14.3 Transport hazard class(es)**

**ADR**

Class / Classification — 2 5F Gases.

Label — 2.1

**IMDG, IATA**

Class / Division — 2.1

Label — 2.1

**14.4 Packing Group**

**ADR, IMDG, IATA** — None.

**14.5 Environmental hazards**

Marine Pollutant — No.

**14.6 Special precautions for user** — Warning: Gases.

Kemler Code — -

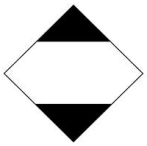
IMDG EMS — F-D, S-U

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** — Not applicable.

**14.8 Additional Information**

**ADR**

Limited Quantity (LQ) — 1 L

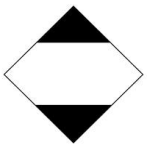


ADR Transport Category — 2

Tunnel Restriction Code — Not applicable in Limited Quantities.

**IMDG**

Limited Quantity (LQ) — 1L



**IATA**

Limited Quantity (LQ) — 1L

UN Model Regulation — UN 1950, 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

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, mixtures 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); | All chemicals are not listed. |
| **15.1.2** | **National regulations** | None known. |
| | Wassergefährdungsklasse (Germany) | |
| | Ethanol | WGK class 1 |
| | Technical Instructions (air) | |

| Class | Share in % |
|---|---|
| NK | 50 – 100 |

| | | |
|---|---|---|
| | VOC-CH | 96.45% |
| | VOC-EU | 559.4g/l |
| | Danish MAL Code | 3-1 |
| **15.2** | **Chemical Safety Assessment** | Not available. |

## SECTION 16: OTHER INFORMATION

**The following sections contain revisions or new statements:** 1,2,3,9.

**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 |
| WGK | Wassergefährdungsklasse (Germany) |
| VOC | Volatile Organic Compounds |
| MAL Code | Måleteknisk Arbejdshygiejnisk Luftbehov<br>(Regulation for the labeling concerning inhalation hazards, Denmark) |
| ADR | Accord européen elative au transport international des marchandises dangereuses par route<br>(European Agreement concerning the International Carriage of Dangerous Goods by Road) |
| IMDG | International Maritime Code for Dangerous Goods |
| IATA | International Air Transport Association |
| Press. Gas | Gases under pressure |
| Flam. Gas 1 | 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. |

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**Annex to the extended Safety Data Sheet (eSDS)**

No information available.