Solo ES3 Smoke Cartridge

# SAFETY DATA SHEET

**SDS0097AU-F**

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

**1.1 Product identifier**

| | |
|---|---|
| Product Name | Solo ES3 Smoke Cartridge |
| Trade Name | Solo ES3-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** — Not classified as dangerous for supply/use.

**2.2 Label elements** — According to GHS 7th revised edition

| | |
|---|---|
| Hazard pictogram(s) | None. |
| Signal word(s) | None. |
| Hazard statement(s) | None. |
| Precautionary statement(s) | None. |

**2.3 Other hazards** — None.

**2.4 Additional Information** — None.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Contains no hazardous ingredients.

**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) |
|---|---|---|---|---|---|
| Propane-1,2-Diol | 40 - 50 | 57-55-6 | 200-338-0 | 01-2119456809-23 | None |

**3.2 Additional Information**

None.

# Solo ES3 Smoke Cartridge

## 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. |
| Ingestion | Wash out mouth with water. Seek medical treatment. |

**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

**5.1 Extinguishing Media**

| | |
|---|---|
| Suitable Extinguishing Media | Use water spray, foam, dry powder or CO2 to extinguish.Extinguish preferably with dry chemical, foam or waterspray. |
| Unsuitable Extinguishing Media | None known. |

**5.2 Special hazards arising from the substance or mixture** None anticipated.

**5.3 Advice for fire-fighters** In case of major fire and large quantities: A self contained breathing apparatus should be worn.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation. Stop leak if safe to do so. Wear protective gloves.

**6.2 Environmental precautions** Prevent entry into drains.

**6.3 Methods and material for containment and cleaning up** Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal.

**6.4 Reference to other sections** See Also Section: 8, 13

**6.5 Additional Information** None.

## SECTION 7: HANDLING AND STORAGE

**7.1 Precautions for safe handling** No special measures are required.

**7.2 Conditions for safe storage, including any incompatibilities**

| | |
|---|---|
| Storage Temperature | Ambient. |
| 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 |
|---|---|---|---|---|---|---|
| Propane-1,2-Diol | 57-55-6 | 150 | 474 | - | - | WEL (Total vapour and particulates ) |
| | | - | 10 | - | - | WEL (Particulates) |

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 | Not normally required. |

| | |
|---|---|
| Skin protection (Hand protection/ Other) | Wear suitable gloves if prolonged skin contact is likely. |

| | |
|---|---|
| Respiratory protection | No personal respiratory protective equipment normally required. |

| | |
|---|---|
| Thermal hazards | Not applicable. |
| **8.2.3** **Environmental Exposure Controls** | Prevent entry into drains. |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on basic physical and chemical properties**

| | |
|---|---|
| Appearance | Liquid. |
| Colour | Clear. |
| Odour | Characteristic. |
| Odour Threshold | Not determined. |
| pH | Not determined. |
| Melting Point/Freezing Point | Not determined. |
| Initial boiling point and boiling range | 100 °C |
| Flash Point | >100 °C |
| Evaporation rate | Not applicable. |
| Flammability (solid, gas) | Non-flammable. |
| Upper/lower flammability or explosive limits | Not applicable. |
| Vapour pressure | 23 hPa @ 20 °C |
| Density | 1.05 g/cm³ @ 20 °C |
| Vapour density | Not determined. |
| Relative density | Not determined. |
| Solubility(ies) | Miscible with: Water. |
| Partition coefficient: n-octanol/water | Not determined. |
| Ignition temperature | 270 °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 | 69.8% |
| Water - Content | 20.0% |

## 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** | None anticipated. |

| | | |
|---|---|---|
| **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. |
| **Skin corrosion/irritation** | Not classified. |
| **Respiratory or skin sensitization** | It is not a skin sensitizer. |
| **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. |
| **12.3** | **Bioaccumulative potential** | No information available. |
| **12.4** | **Mobility in soil** | Soluble in water. The product is predicted to have high 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** | Consult an accredited waste disposal contractor or the local authority for advice. Smaller quantities can be disposed of with household waste. |
| **13.2** | **Additional Information** | Disposal should be in accordance with local, state or national legislation. |

## SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

| | | |
|---|---|---|
| **14.1** | **UN number** | Not applicable. |
| **14.2** | **UN Proper Shipping Name** | Not applicable. |
| **14.3** | **Transport hazard class(es)** | Not applicable. |
| **14.4** | **Packing Group** | Not applicable. |
| **14.5** | **Environmental hazards** | Not applicable. |
| **14.6** | **Special precautions for user** | Not applicable. |
| **14.7** | **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** | Not applicable. |

## 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. |
| REACH: ANNEX IV exemptions from the obligation to register in accordance with article 2(7)(a) | Listed in: Water. |
| Community Rolling Action Plan (CoRAP); | All chemicals are not listed. |

| | | |
|---|---|---|
| **15.1.2** | **National regulations** | None known. |
| | Wassergefährdungsklasse (Germany) | WGK class 1 |
| | VOC-CH | 69.75% |
| | VOC-EU | 69.75% |
| **15.2** | **Chemical Safety Assessment** | Not available. |

## SECTION 16: OTHER INFORMATION

**The following sections contain revisions or new statements:** 1,2,3,4,6,11.

**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 |

**Disclaimers**

The information is based on the best knowledge of No Climb Products Ltd. 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.