

# SAFETY DATA SHEET

SDS0097UK

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 2015/830

## 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 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. +44 (0) 1707 282760

## 2. HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**  
**2.1.1 Regulation (EC) No. 1272/2008 (CLP)** Not classified as dangerous for supply/use.  
**2.2 Label elements** According to Regulation (EC) No. 1272/2008 (CLP)  
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.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Mixtures

EC Classification No. 1272/2008

| 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.

## 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.

## 5. FIREFIGHTING MEASURES

- 5.1 Extinguishing media**  
Suitable Extinguishing media Use water spray, foam, dry powder or CO2 to extinguish.  
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.

## 6. ACCIDENTAL RELEASE MEASURES

- |            |                                                                            |                                                                                  |
|------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <b>6.1</b> | <b>Personal precautions, protective equipment and emergency procedures</b> | Ensure adequate ventilation. Stop leak if safe to do so. Wear protective gloves. |
| <b>6.2</b> | <b>Environmental precautions</b>                                           | Prevent entry into drains.                                                       |
| <b>6.3</b> | <b>Methods and material for containment and cleaning up</b>                | Absorb spillage in earth or sand. Transfer to a container for disposal.          |
| <b>6.4</b> | <b>Reference to other sections</b>                                         | See Section: 8 and 13.                                                           |
| <b>6.5</b> | <b>Additional Information</b>                                              | None.                                                                            |

## 7. HANDLING AND STORAGE

- |            |                                                                     |                                   |
|------------|---------------------------------------------------------------------|-----------------------------------|
| <b>7.1</b> | <b>Precautions for safe handling</b>                                | No special measures are required. |
| <b>7.2</b> | <b>Conditions for safe storage, including any incompatibilities</b> |                                   |
|            | Storage temperature                                                 | Ambient.                          |
|            | Storage life                                                        | Stable under normal conditions.   |
|            | Incompatible materials                                              | None known.                       |
| <b>7.3</b> | <b>Specific end use(s)</b>                                          | Smoke simulation.                 |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### 8.1.1 Occupational Exposure Limits

| SUBSTANCE.       | CAS No. | LTCL (8 hr TWA ppm) | LTCL (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 (Dust)                          |

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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|                                          |                              |
|------------------------------------------|------------------------------|
| Appearance                               | Liquid.                      |
| Colour.                                  | Clear.                       |
| Odour                                    | Characteristic.              |
| Odour Threshold (ppm)                    | Not determined.              |
| pH (Value)                               | Not determined.              |
| Melting Point (°C) / Freezing Point (°C) | Not determined.              |
| Boiling Point (°C)                       | 100°C                        |
| Flash Point (°C)                         | >100°C                       |
| Evaporation rate                         | Not applicable.              |
| Flammability                             | Non-flammable.               |
| Explosive Limit Ranges                   | Not applicable.              |
| Vapour Pressure (mm Hg)                  | 23hPa @ 20°C.                |
| Vapour Density (Air=1)                   | Not applicable               |
| Density (g/ml)                           | 1.05 g/cm³ @ 20°C.           |
| Solubility(ies)                          | Miscible with: Water         |
| Partition Coefficient (n-Octanol/water)  | Not determined.              |
| Auto Ignition Point (°C)                 | 270°C                        |
| Decomposition Temperature (°C)           | Product is not selfigniting. |

|            |                            |                 |
|------------|----------------------------|-----------------|
|            | Viscosity (mPa. s)         | Not determined. |
|            | Explosive properties       | Not explosive.  |
|            | Oxidising properties       | Not oxidising.  |
| <b>9.2</b> | <b>Other information</b>   |                 |
|            | Organic solvents - Content | 69.8%           |
|            | Water - Content            | 20.0%           |

## 10. STABILITY AND REACTIVITY

|             |                                           |                                                                |
|-------------|-------------------------------------------|----------------------------------------------------------------|
| <b>10.1</b> | <b>Reactivity</b>                         | Stable under normal conditions.                                |
| <b>10.2</b> | <b>Chemical stability</b>                 | Stable under normal conditions.                                |
| <b>10.3</b> | <b>Possibility of hazardous reactions</b> | No hazardous reactions known if used for its intended purpose. |
| <b>10.4</b> | <b>Conditions to avoid</b>                | None anticipated.                                              |
| <b>10.5</b> | <b>Incompatible materials</b>             | None anticipated.                                              |
| <b>10.6</b> | <b>Hazardous decomposition product(s)</b> | No hazardous decomposition products known.                     |

## 11. TOXICOLOGICAL INFORMATION

|             |                                             |                                              |
|-------------|---------------------------------------------|----------------------------------------------|
| <b>11.1</b> | <b>Information on toxicological effects</b> |                                              |
|             | <b>Mixtures</b>                             |                                              |
|             | <b>Acute toxicity</b>                       | Low acute toxicity.                          |
|             | <b>Skin corrosion/irritation</b>            | Non-irritant.                                |
|             | <b>Serious eye damage/irritation</b>        | Not classified.                              |
|             | <b>Respiratory or skin sensitization</b>    | It is not a skin sensitiser.                 |
|             | <b>Germ cell mutagenicity</b>               | There is no evidence of mutagenic potential. |
|             | <b>Carcinogenicity</b>                      | No evidence of carcinogenicity.              |
|             | <b>Reproductive toxicity</b>                | None anticipated.                            |
|             | <b>STOT - single exposure</b>               | Not classified.                              |
|             | <b>STOT - repeated exposure</b>             | Not classified.                              |
|             | <b>Aspiration hazard</b>                    | None anticipated.                            |
|             | <b>Irritation</b>                           |                                              |
| <b>11.2</b> | <b>Other information</b>                    | None.                                        |

## 12. ECOLOGICAL INFORMATION

|             |                                           |                                                                           |
|-------------|-------------------------------------------|---------------------------------------------------------------------------|
| <b>12.1</b> | <b>Toxicity</b>                           | Low toxicity to aquatic organisms.                                        |
| <b>12.2</b> | <b>Persistence and degradability</b>      | The product is readily biodegradable.                                     |
| <b>12.3</b> | <b>Bioaccumulative potential</b>          | No information available                                                  |
| <b>12.4</b> | <b>Mobility in soil</b>                   | Soluble in water. The product is predicted to have high mobility in soil. |
| <b>12.5</b> | <b>Results of PBT and vPvB assessment</b> | Not classified as PBT or vPvB.                                            |
| <b>12.6</b> | <b>Other adverse effects</b>              | None.                                                                     |

## 13. DISPOSAL CONSIDERATIONS

|             |                                |                                                                                                                                                   |
|-------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>13.1</b> | <b>Waste treatment methods</b> | Consult an accredited waste disposal contractor or the local authority for advice.<br>Smaller quantities can be disposed of with household waste. |
| <b>13.2</b> | <b>Additional Information</b>  | Disposal should be in accordance with local, state or national legislation.                                                                       |

## 14. TRANSPORT INFORMATION

|             |                                                                                 |                 |
|-------------|---------------------------------------------------------------------------------|-----------------|
| <b>14.1</b> | <b>UN number</b>                                                                | Not applicable. |
| <b>14.2</b> | <b>UN Proper Shipping Name</b>                                                  | Not applicable. |
| <b>14.3</b> | <b>Transport hazard class(es)</b>                                               | Not applicable. |
| <b>14.4</b> | <b>Packing group</b>                                                            | Not applicable. |
| <b>14.5</b> | <b>Environmental hazards</b>                                                    | Not applicable. |
| <b>14.6</b> | <b>Special precautions for user</b>                                             | Not applicable. |
| <b>14.7</b> | <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not applicable. |

## 15. REGULATORY INFORMATION

|               |                                                                                                                                             |             |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>15.1</b>   | <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>                                       |             |
| <b>15.1.1</b> | <b>EU regulations</b>                                                                                                                       |             |
|               | Authorisations and/or Restrictions On Use                                                                                                   |             |
|               | Candidate List of Substances of Very High Concern for Authorisation                                                                         | Not listed. |
|               | REACH: ANNEX XVII 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)                                                                                                       | Not listed  |
|               | Candidate List of Substances of Very High Concern for Authorisation                                                                         | Not listed  |
| <b>15.1.2</b> | <b>National regulations</b>                                                                                                                 | None known. |

Wassergefährdungsklasse (Germany)

**VOC-CH****VOC-EU****15.2 Chemical Safety Assessment**

WGK class 1

69.75%

69.75%None.

A chemical safety assessment is not required under REACH.

**16. OTHER INFORMATION**

The following sections contain revisions or new statements: N/a.

**LEGEND**

|      |                                   |
|------|-----------------------------------|
| LTEL | Long Term Exposure Limit          |
| STEL | Short Term Exposure Limit         |
| STOT | Specific Target Organ Toxicity    |
| DNEL | Derived No Effect Level           |
| PNEL | Predicted No Effect Concentration |

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

No information available.