

Solo ES3 Smoke Cartridge

# SAFETY DATA SHEET

SDS0097UK

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

## 1. 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 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. SECTION 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. SECTION 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	157-55-6	200-338-0	01-2119456809-23	None

### 3.2 Additional Information

None.

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### 4. 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.

### 5. SECTION 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. 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** Absorb spillage in earth or sand. Transfer to a container for disposal.
- 6.4 Reference to other sections** See Section: 8 and 13.
- 6.5 Additional Information** None.

### 7. 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 known.                     |
- 7.3 Specific end use(s)** Smoke simulation.




### 8. 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/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
Propane-1,2-Diol	57-55-6	150	474	-	-	WEL (Total vapour and particulates)
		-	10	-	-	WEL (particulates)

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WEL: Workplace Exposure Limit (UK HSE EH40)

<b>8.1.2 Biological limit value</b>	Not established.
<b>8.1.3 PNECs and DNELs</b>	Not established.
<b>8.2 Exposure controls</b>	
<b>8.2.1 Appropriate engineering controls</b>	Provide adequate ventilation.
<b>8.2.2 Personal protection equipment</b>	
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.
<b>8.2.3 Environmental Exposure Controls</b>	Prevent entry into drains.

## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1 Information on basic physical and chemical properties</b>	
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/cm <sup>3</sup> @ 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 Other information</b>	
Organic solvents - Content	69.8%
Water - Content	20.0%

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### 10. SECTION 10: STABILITY AND REACTIVITY

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

### 11. SECTION 11: TOXICOLOGICAL INFORMATION

<b>11.1 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>11.2 Other information</b>	None.

### 12. SECTION 12: ECOLOGICAL INFORMATION

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

### 13. SECTION 13: DISPOSAL CONSIDERATIONS

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

### 14. SECTION 14: TRANSPORT INFORMATION

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

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### 15. SECTION 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) Candidate List of Substances of Very High Concern for Authorisation	Not listed Not listed
<b>15.1.2</b>	<b>National regulations</b>	None known.
	Wassergefährdungsklasse (Germany)	WGK class 1
	<b>VOC-CH</b>	69.75%
	<b>VOC-EU</b>	69.75%
<b>15.2</b>	<b>Chemical Safety Assessment</b>	A chemical safety assessment is not required under REACH.

### 16. SECTION 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.