

Solo ES3 Smoke Cartridge  
**SAFETY DATA SHEET**  
SDS0097UK

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 1272/2008 (CLP) & 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.  
**UFI** 0247-73RF-D00J-HE4Y

### 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	157-55-6	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.

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- 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. 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.

### 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. 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. 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/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 (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/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.

#### 9.2 Other information

Organic solvents - Content	69.8%
Water - Content	20.0%

### 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	None anticipated.
10.5 Incompatible materials	None anticipated.
10.6 Hazardous decomposition product(s)	No hazardous decomposition products known.

### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

##### Mixtures

##### Acute toxicity

Low acute toxicity.

##### Skin corrosion/irritation

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.

##### Irritation

#### 11.2 Other information

None.

### 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

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<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. 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. TRANSPORT INFORMATION

Not classified as dangerous for transport.

<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.
ADR Classification Code	Not hazardous according to current ADR Regulations.
IATA Classification Code	Not hazardous according to current IATA Regulations.
IMDG Classification Code	Not hazardous according to current IMDG Regulations.
<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.

### 15. REGULATORY INFORMATION

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
<b>15.1.1 EU regulations</b>	
Authorisations and/or Restrictions On Use	Not listed.
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	None known.
<b>15.1.2 National regulations</b>	
Wassergefährdungsklasse (Germany)	WGK class 1
<b>VOC-CH</b>	69.75%
<b>VOC-EU</b>	69.75%
<b>15.2 Chemical Safety Assessment</b>	A chemical safety assessment is not required under REACH.

### 16. OTHER INFORMATION

The following sections contain revisions or new statements: 1.

#### LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
DNEL	Derived No Effect Level
VOC	Volatile Organic Compounds

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

No information available.