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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.

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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.	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 (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^3 @ 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.

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	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
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.

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.

14. TRANSPORT INFORMATION

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 MARPOL 73/78 and the IBC Code**	Not applicable.

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	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
15.1.2	**National regulations**	None known.

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	Wassergefährdungsklasse (Germany)	WGK class 1
	VOC-CH	69.75%
	VOC-EU	69.75%None.
15.2	**Chemical Safety Assessment**	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.

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