



Solo ES3 Smoke Cartridge

Accessories – Servicing

Part No. ES3-121PACK-001

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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.
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 Only representative

Company Identification	Shift-Consult Hubert Scherzinger, 79108 Freiburg, Germany
Telephone	+49 7665 91 21 74
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
Mon-Thur (08:30-17:00), Fri (08:30-15:00)	



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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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Substances

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

3.3 Additional Information

None

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.



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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: 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.

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 Also Section 8 and 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 known.



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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/m ³)	STEL (ppm)	STEL (mg/m ³)	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.



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SECTION 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.
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%



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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

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.

SECTION 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.



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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 Endocrine disrupting properties

None known.

12.7 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.



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14.3 Transport hazard class(es)

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

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

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	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.

15.1.2 National regulations

Wassergefährdungsklasse (Germany)	WGK class 1
VOC-CH	69.75%
VOC-EU	69.75%

15.2 Chemical Safety Assessment

A chemical safety assessment is not required under REACH.



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SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1.3, 3.2, 12.7.

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.