

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



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
- 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



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|-----|--|---|
| 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

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|-----|---|--|
| 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

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| 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

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|-----|--|-----------------------------------|
| 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/m³)	STEL (ppm)	STEL (mg/m³)	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)

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. 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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10. 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.

11. 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.
11.2	Other information	None.

12. 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	Other adverse effects	None.

13. 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.

14. SECTION 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.

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15. 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	
	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.
	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.

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.



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