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LIGHTING & FIRE DESIGN, SUPPLY & SUPPORT

Smoke Sabre

Accessories - Servicing

Part No. SMOKESABRE

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name	SMOKESABRE
Trade Name	Smokesabre-01-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	SDS@detectortesters.com

1.4 Emergency telephone number

Emergency Phone No.	+44 (0) 1707 282760

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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP)	Aerosol 1; Extremely flammable aerosol. Pressurised container: May burst if heated

2.2 Label elements

Hazard Pictogram(s)	According to Regulation (EC) No. 1272/2008 (CLP)  GHS02
Signal Word(s)	Danger.
Hazard Statement(s).	H222: Extremely flammable aerosol.
	H229: Pressurised container: May burst if heated.
Precautionary Statement(s)	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P211: Do not spray on an open flame or other ignition source.
	P251: Pressurised container - Do not pierce or burn, even after use.
	P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C.

2.3 Other hazards

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

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)
Butane	50-100	106-97-8	203-448-7	01-2119474691-32	GHS02, Flam. Gas 1; H220, GHS04, Press. Gas; H280
Propane	10-25	74-98-6	200-827-9	01-2119486944-21	GHS02, Flam. Gas 1; H220, GHS04, Press. Gas; H280
Ethanol	0-5	64-17-5	200-578-6	01-2119457610-43	GHS02, Flam. Liq. 2; H225

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3.2 Additional Infomation

For full text of H/P Statements see section 16.

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 while holding eyelids open
Ingestion	Unlikely route of exposure

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

Pressurised container: May burst if heated.

5.1 Extinguishing media

Suitable Extinguishing media	Extinguish with carbon dioxide, dry chemical, foam or waterspray.
Unsuitable extinguishing media	Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Heating may cause pressure rise with risk of bursting

5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including selfcontained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

The product is an aerosol. It is unlikely to present spillage or leakage hazard. In case of rupture, released content should be contained as any other solvent spill.

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Wear suitable gloves and eye/face protection.

6.2 Environmental precautions

Do not release large quantities into the surface water or into drains

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6.3 Methods and material for containment and cleaning up

Collect mechanically and dispose of according to Section 13. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a lidded container for disposal or recovery. Containers must not be punctured or destroyed by burning, even when empty.

6.4 Reference to other sections

See Also Section 8 and 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Provide adequate ventilation.
Do not eat, drink or smoke during work. Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Observe official regulations on storing packagings with pressurised containers	
Storage temperature	Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 deg C.
Storage life	Stable under normal conditions.
Incompatible materials	None anticipated

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/m³)	STEL (ppm)	STEL (mg/m³)	Note
Butane	106-97-8	600	1450	750	1810	WEL
Ethanol	64-17-5	1000	1920	-	-	WEL

WEL: Workplace Exposure Limit (UK HSE EH40)

8.1.2 Biological limit value

Not established.

8.1.3 PNECs and DNELs

Not established.

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8.2 Exposure controls

8.2.1 Exposure controls

Provide adequate ventilation.

8.2.2 Personal protection equipment

Eye/ face protection 	If eye contact is likely: Wear protective eyewear (goggles, face shield, or safety glasses
Skin protection (Hand protection/ Other) 	Wear suitable gloves if prolonged skin contact is likely. Gloves: Nitrile rubber, NBR.
Respiratory protection 	No personal respiratory protective equipment normally required. Handling of larger amounts: In case of insufficient ventilation, wear suitable respiratory equipment. A suitable mask with filter type A (EN14387 or EN405) may be appropriate.
Thermal hazards	Not applicable.

8.2.3 Environmental Exposure Controls

Do not release large quantities into the surface water or into drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Aerosol.
Colour.	Colourless.
Odour	Characteristic
Odour Threshold	Not determined.
pH	Not determined.
Melting Point/ Freezing Point	Not determined.
Boiling point/ boiling range	-44 °C
Flash Point	<0 °C
Evaporation rate	Not applicable
Flammability (solid, gas)	Extremely flammable
Upper/lower flammability or explosive limit	Explosive Limit Ranges: 1.5 – 15.0 Vol-%
Vapour pressure	4.3 bar @ 20 °C

Density	0.58 g/cm³ @ 20 °C
Vapour density	Not determined
Relative density	Not determined
Solubility(ies)	Immiscible with water
Partition Coefficient n-Octanol/water	Not determined.
Ignition temperature	365°C
Auto Ignition Point	Product is not selfigniting
Decomposition Temperature	Not determined.
Kinematic Viscosity	Not determined.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

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9.2 Other information

Organic solvents - Content	96.4%

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

Stable under normal conditions. No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Heat and direct sunlight

10.5 Incompatible materials

None anticipated.

10.6 Hazardous decomposition product(s)

None known

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Mixtures

Acute toxicity	Low acute toxicity.
Irritation Non-irritant.	Non-irritant
Corrosivity	Not classified.
Sensitisation	It is not a skin sensitiser.
Repeated dose toxicity	None anticipated
Carcinogenicity	No evidence of carcinogenicity
Mutagenicity	There is no evidence of mutagenic potential
Toxicity for reproduction	None anticipated
Aspiration hazard	None anticipated

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. Unlikely to persist

12.3 Bioaccumulative potential

The product has no potential for bioaccumulation.

12.4 Mobility in soil

Immiscible with water. The product is predicted to have low mobility in soil.

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB

12.6 Other adverse effects

None.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Non-emptied aerosol: Dispose of wastes in an approved waste disposal facility. Do NOT landfill.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR, IMDG, IATA	UN 1950

14.2 UN proper shipping name

ADR	1950 AEROSOLS
IMDG	AEROSOLS
IATA	AEROSOLS, Flammable

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14.3 Transport hazard class(es)

ADR	
Class /Classification	2 5F Gases
Label	2.1
IMDG, IATA	
Class / Division	2.1
Label	2.1

14.4 Packing group

ADR, IMDG, IATA	None.

14.5 Environmental hazards

Marine Pollutant	No

14.6 Special precautions for user - Warning: Gases

Kemler Code	-
IMDG EMS	F-D, S-U

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

14.8 Additional Information

ADR
Limited Quantity (LQ)

1L



ADR Transport Category
Tunnel Restriction Code

2
Not applicable in Limited Quantities

IMDG
Limited Quantity (LQ)

1L



IATA
Limited Quantity (LQ)

1L



UN Model Regulation

UN1950 , AEROSOLS, 2.1

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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	None known.
Candidate List of Substances of Very High Concern for Authorisation	All chemicals are not listed.
REACH: ANNEX XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	All chemicals are not listed.
REACH: ANNEX XIV list of substances subject to authorisation	All chemicals are not listed.
Community Rolling Action Plan (CoRAP)	All chemicals are not listed.

15.1.2 National regulations

Wassergefährdungsklasse (Germany)	WGK class 1
Ethanol	Class: NK Share in %: 50-100
Technical Instructions (air)	
VOC-CH	96.45%
VOC-EU	559.4g/l
Danish MAL Code	3-1

15.2 Chemical Safety Assessment

Not available.

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SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 3.

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
WGK	Wassergefährdungsklasse (Germany)
VOC	Volatile Organic Compounds
MAL Code	Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
ADR	Accord européen elative au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG	International Maritime Code for Dangerous Goods
IATA	International Air Transport Association
Press. Gas	Gases under pressure
Flam. Gas 1	Flammable gas Category 1

Hazard Statement(s)

H220	Extremely flammable gas
H225	Highly flammable liquid and vapour
H280	Contains gas under pressure; may explode if heated.

Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

No information available.

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