


SAFETY DATA SHEET

SDS0084US-EN
ACCORDING TO US CFR 1910.1200

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

1.1 Product identifier	Product Name	Smoke Sabre.
	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	SDI, LLC, 3535 State Highway 66, Parkway 100 Building 6, Neptune NJ07753, USA.
	Telephone	(732) 751 9266
	Fax	(732) 751 9241
	E-mail	sales@sdifire.com
1.4 Emergency telephone number	Info Trac	1-800-535-5053
1.5 Address of Manufacturer		Detectortesters (No Climb Products Ltd), Edison House, 163 Dixons Hill Road, elham Green, Hertfordshire. AL9 7JE. United Kingdom
	Telephone	+44 (0) 1707 282760
	Fax	+44 (0) 1707 282777
	E-mail	SDS@detectortesters.com

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	US CFR 1910.1200	Flam. Aerosol 1: Extremely flammable aerosol.
2.2 Label elements	Hazard Pictogram(s)	Smoke Sabre
		
		GHS02
	Signal Word(s)	Danger.
	Hazard Statement(s)	H222: Extremely flammable aerosol.
	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/122°F.
2.3 Other hazards		None.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

3.1 Mixtures

Hazardous Ingredient(s)	%W/W	CAS No.
Butane	50 - 100	106-97-8
Propane	10 - 25	74-98-6
Ethanol	0 - 5	64-17-5

3.2 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 while holding eyelids open.
Ingestion	Unlikely route of exposure.



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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

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 self-contained 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.
- 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, 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.
- 7.2 **Conditions for safe storage, including any incompatibilities** Do not eat, drink or smoke during work. Wash hands thoroughly after handling. Observe official regulations on storing packagings with pressurised containers.
Storage temperature Pressurized container: protect from sunlight and do not expose to temperatures exceeding 122°F.
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/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Butane	106-97-8	800	1900	-	-	NIOSH
Propane	74-98-6	1000	1800	-	-	NIOSH
		1000	1800	-	-	PEL (OSHA)
Ethanol	64-17-5	1000	1900	-	-	NIOSH
		1000	1900	-	-	PEL (OSHA)

Source:

NIOSH = National Institute of Occupational Safety & Health

OSHA = Occupational Safety and Health Administration

- 8.2 **Appropriate engineering controls** Provide adequate ventilation.

- 8.3 **Individual protection measures, such as personal protective equipment (PPE)**
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.



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Respiratory protection



No personal respiratory protective equipment normally required. Handling of larger amounts: In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Not applicable.

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.
Initial boiling point and boiling range	-47.4°F (-44°C)
Flash Point	<32°F (<0°C)
Evaporation rate	Not available.
Flammability (solid, gas)	Extremely flammable.
Upper/lower flammability or explosive limits	Explosive Limit Ranges: 1.5 – 15.0 Vol-%
Vapour pressure	62.4 psig (4.3 bar) @ 68°F
Density	36.2 lb/ft ³ (0.58 g/cm ³) @ 68°F
Vapour density	Not determined.
Relative density	Not determined.
Solubility(ies)	Immiscible with water.
Partition coefficient: n-octanol/water	Not determined.
Ignition temperature	689°F (365°C)
Auto-ignition temperature	Product is not selfigniting.
Decomposition Temperature	Not determined.
Kinematic Viscosity	Not determined.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2 Other information

Organic solvents – Content	96.4%
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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	Stable under normal conditions.
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.
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.

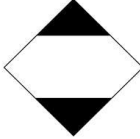
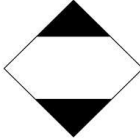


SECTION 12: ECOLOGICAL INFORMATION

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
- 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**
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) 1 L 
- ADR Transport Category 2
Tunnel Restriction Code Not applicable in Limited Quantities.
IMDG Limited Quantity (LQ) 1L 
- IATA Limited Quantity (LQ) 1L  
- UN Model Regulation UN 1950, AEROSOLS, 2.1
US ORM-D when transported in limited quantities (< 30kg or 66lb gross weight).

SECTION 15: REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- 15.1.1 OSHA**
Toxic and hazardous substances (29 CFR 1910; Subpart Z) Listed: Propane (CAS No.: 74-98-6)
National emission standards for hazardous air pollutants (40 CFR 61.01) Listed: Ethanol (CAS No.: 64-17-5)
All chemicals are not listed.
- 15.1.2 Title III Consolidated List of Lists**
Listed: Butane (CAS No.: 106-97-8)
Listed: Propane (CAS No.: 74-98-6)
10000
- 15.1.3 OSPAR List of Chemicals for Priority Action**
All chemicals are not listed.
- Clean Air Act Section 112(r) Threshold Quantity



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15.1.4 State Right to Know Lists

Butane (CAS No.: 106-97-8):
New Jersey, Pennsylvania, Massachusetts, Rhode Island.

Propane (CAS No.: 74-98-6):
New Jersey, Pennsylvania, Massachusetts.

Ethanol (CAS No.: 64-17-5):
New Jersey, Pennsylvania, Massachusetts.

15.1.5 TSCA (Toxic Substance Control Act)

All chemicals listed.

15.1.6 Proposition 65 (California)

All chemicals are not listed

15.1.7 CAA 602 - Ozone Depleting Substances (ODS)

All chemicals are not listed.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1

NFPA		HMIS	
Health	1	Health	1
Fire	4	Flammability	4
Instability	0	Physical hazards	0

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
NIOSH	National Institute of Occupational Safety & Health
PEL	Permissible Exposure Limits
CAA	Clean Air Act
OSHA	Occupational Safety and Health Administration
OSPAR	Oslo and Paris Convention
ADR	Accord européen relative 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

Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

No information available.