Specialized Fire Products

Smokesabre

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	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	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 Welham 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

Aerosol 1: Extremely flammable aerosol.
Pressurized container: May burst if heated.

2.2 Label elements

Smokesabre

Hazard Pictogram(s)

GHS02

Signal Word(s)	Danger.
Hazard Statement(s)	H222: Extremely flammable aerosol. H229: Pressurized 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: Pressurized 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 Substances
Not Applicable

3.2 Mixtures

Hazardous Ingredient(s)	CAS No.	%W/W
Butane	106-97-8	60-70
Propane	74-98-6	20-30
Ethanol	64-17-5	0.5-2

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 while holding eyelids open.
Ingestion	Unlikely route of exposure. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed Drowsiness, narcosis, asphyxia.

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. Carbon dioxide and Carbon monoxide.

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.
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	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/m³)	STEL (ppm)	STEL (mg/m³)	Note
Butane	106-97-8	800	1900	-	-	NIOSH
		1000	-	-	-	ACGIH TLV
Propane	74-98-6	1000	1800	-	-	NIOSH
		1000	1800	-	-	PEL (OSHA)
Ethanol	64-17-5	1000	1900	-	-	NIOSH
		-	-	1000	1800	ACGIH TLV
		1000	1900	-	-	PEL (OSHA)

Source:
NIOSH = National Institute of Occupational Safety & Health
OSHA = Occupational Safety and Health Administration
ACGIH = American Conference of Governmental Industrial Hygienists

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.

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)
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%

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**	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.
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. See section 8.1.1 for exposure limits.
Irritation	Non-irritant.
Corrosivity	Not classified.
Sensitisation	It is not a skin sensitiser.
Repeated dose toxicity	None anticipated.See section 8.1.1 for exposure limits.
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 Warning: Gases.

Kemler Code -

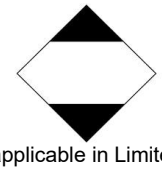
IMDG EMS F-D, S-U

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) 1 L

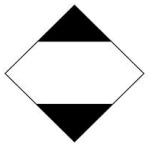


ADR Transport Category 2

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 Limited Quantity (LQ)

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) Listed: Ethanol (CAS No.: 64-17-5)
National emission standards for hazardous air pollutants (40 CFR 61.01)	No chemicals are listed.
15.1.2 Title III Consolidated List of Lists	Listed: Butane (CAS No.: 106-97-8) Listed: Propane (CAS No.: 74-98-6)
Clean Air Act Section 112(r) Threshold Quantity	10000
15.1.3 OSPAR List of Chemicals for Priority Action	No chemicals are listed.
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)	No chemicals are listed.
15.1.7 CAA 602 - Ozone Depleting Substances (ODS)	No chemicals are listed.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Header, 2.1, 2.2, 3.1, 3.2, 3.3, 4.1., 4.2, 5.2, 8.1.1, 9.1, 10.4, 11.1.1, 14.8, 15.1.3, 15.1.6, 15.1.7, 16.

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 relatif 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.