


SAFETY DATA SHEET

SDS0084CA-EN

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

1.1 Product identifier	Product Name Trade Name CAS No. EINECS No.	Smoke Sabre. Smokesabre-01-XXX (XXX denotes customer variant). Mixture. Mixture.
1.2 Relevant identified uses of the substance or mixture and uses advised against	Identified Use(s) Uses Advised Against	Smoke simulation. None known.
1.3 Details of the supplier of the safety data sheet	Company Identification Telephone Fax E-mail	SDi, LLC, 3535 State Highway 66, Parkway 100 Building 6, Neptune NJ07753, USA. (732) 751 9266 (732) 751 9241 sales@sdi-fire.com
1.4 Emergency telephone number	Info Trac	1-800-535-5053
1.5 Address of Manufacturer	Telephone Fax E-mail	Detectortesters (No Climb Products Ltd). Edison House, 163 Dixons Hill Road, Welham Green, Hertfordshire. AL9 7JE. United Kingdom +44 (0) 1707 282760 +44 (0) 1707 282777 SDS@detectortesters.com

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	WHMIS Classification	Flam. Aerosol 1: Extremely flammable aerosol.
2.2 Label elements	Hazard Pictogram(s)	Smoke Sabre 
2.3 Other hazards	Signal Word(s) Hazard Statement(s) Precautionary Statement(s)	GHS02 Danger. H222: Extremely flammable aerosol. 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. 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.
4.2 Most important symptoms and effects, both acute and delayed		None anticipated.



Specialized Fire Products

Smoke Sabre

- 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. See Also Section: 8, 13.
- 6.4 **Reference to other sections**

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. Observe official regulations on storing packagings with pressurised containers.
- 7.2 **Conditions for safe storage, including any incompatibilities**
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.	LTCL (8 hr TWA ppm)	LTCL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Butane	106-97-8	800	-	-	-	Canada (Ontario)
		800	1900	-	-	Canada (Québec)
Propane	74-98-6	1000	-	-	-	Canada (Ontario)
		1000	1800	-	-	Canada (Québec)
Ethanol	64-17-5	-	-	1000	-	Canada (Ontario)
		1000	1880	-	-	Canada (Québec)

Source:

CCOHS = Canadian Centre for Occupational Health and Safety

- Règlement 833 (Canada, Ontario)
- Règlement sur la santé et la sécurité du travail (Canada, Québec)

- 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)



Respiratory protection



Thermal hazards

Wear suitable gloves if prolonged skin contact is likely.
Gloves: Nitrile rubber, NBR.

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

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%

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.
12.6	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.

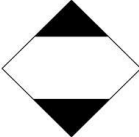
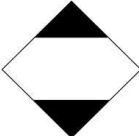


SECTION 14: TRANSPORT INFORMATION

14.1	UN number	
	ADR, IMDG, IATA, TDG	UN 1950
14.2	UN proper shipping name	
	ADR	1950 AEROSOLS
	IMDG, TDG	AEROSOLS
	IATA	AEROSOLS, Flammable
14.3	Transport hazard class(es)	
	ADR	



Smoke Sabre

Specialized Fire Products

Class / Classification	2 5F Gases.
Label	2.1
IMDG, IATA, TDG	
Class / Division	2.1
Label	2.1
14.4 Packing group	None.
ADR, IMDG, IATA, TDG	
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	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 Canadian Regulations

Domestic Substances List (DSL)	All chemicals listed
Export Control List	All chemicals are not listed
Priority Substances List (PSL)	All chemicals are not listed
Toxic Substances List	All chemicals are not listed
National Pollutant Release Inventory (NPRI)	Listed: Propane (CAS No.: 74-98-6)
Substance List	Listed: Ethanol (CAS No.: 64-17-5)

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1,2,16

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
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
HPR	Hazardous Products Regulations
TDG	Transportation of Dangerous Goods
IATA	International Air Transport Association

Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

No information available.