

Smoke Centurion

SAFETY DATA SHEET

SDS0089US-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 Trade Name	Smoke Centurion. M8 Smoke-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	None assigned.
1.2	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	
1.0	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
SECT	TION 2: HAZARDS IDENTIFICATION	
SEC 2.1	CION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture	
		Flam. Aerosol 1: Extremely flammable aerosol.
	Classification of the substance or mixture US CFR 1910.1200 Label elements	Flam. Aerosol 1: Extremely flammable aerosol. Smoke Centurion
2.1	Classification of the substance or mixture US CFR 1910.1200	
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2.1	Classification of the substance or mixture US CFR 1910.1200 Label elements Hazard Pictogram(s) Signal Word(s)	Smoke Centurion GHS02 Danger.
2.1	Classification of the substance or mixture US CFR 1910.1200 Label elements Hazard Pictogram(s) Signal Word(s) Hazard Statement(s)	Smoke Centurion GHS02 Danger. H222: Extremely flammable aerosol.
2.1	Classification of the substance or mixture US CFR 1910.1200 Label elements Hazard Pictogram(s) Signal Word(s)	Smoke Centurion GHS02 Danger. H222: Extremely flammable aerosol. P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition
2.1	Classification of the substance or mixture US CFR 1910.1200 Label elements Hazard Pictogram(s) Signal Word(s) Hazard Statement(s)	Smoke Centurion GHS02 Danger. H222: Extremely flammable aerosol. P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
2.1	Classification of the substance or mixture US CFR 1910.1200 Label elements Hazard Pictogram(s) Signal Word(s) Hazard Statement(s)	Smoke Centurion 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.
2.1	Classification of the substance or mixture US CFR 1910.1200 Label elements Hazard Pictogram(s) Signal Word(s) Hazard Statement(s)	Smoke Centurion 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.
2.1	Classification of the substance or mixture US CFR 1910.1200 Label elements Hazard Pictogram(s) Signal Word(s) Hazard Statement(s)	Smoke Centurion GHS02 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/
2.1 2.2	Classification of the substance or mixture US CFR 1910.1200 Label elements Hazard Pictogram(s) Signal Word(s) Hazard Statement(s) Precautionary Statement(s)	Smoke Centurion GHS02 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.
2.1	Classification of the substance or mixture US CFR 1910.1200 Label elements Hazard Pictogram(s) Signal Word(s) Hazard Statement(s)	Smoke Centurion 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/

Product as supplied: Aerosol.

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

3.2 Additional Information

None.



SECTION 4: FIRST AID MEASURES

4.2

4.1	Description of first aid measures
	Inhalation

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.
Most important symptoms and effects, both	None anticipated.
acute and delayed	
Indication of any immediate medical attention	I Inlikely to be required but if necessary treat symptomatically

acute and 4.3 Indication of any immediate medical attention and special treatment needed

Jnlikely 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	Heating may cause pressure rise with risk of bursting.
	mixture	
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.

Personal precautions, protective equipment 6.1 Ensure adequate ventilation. Wear suitable gloves and eye/face protection. and emergency procedures Do not release large quantities into the surface water or into drains. 6.2 Environmental precautions 6.3 Methods and material for containment and Collect mechanically and dispose of according to Section 13. Adsorb spillages onto cleaning up 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. None anticipated. Incompatible materials Specific end use(s) 7.3 Smoke simulation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **Control parameters Q11** 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

Appropriate engineering controls 8.2

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

Provide adequate ventilation.



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Eye / face protection



Skin protection (Hand protection/ Other)





If eye contact is likely: Wear protective eyewear (goggles, face shield, or safety glasses).

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.

Aerosol.

Colourless.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties Appearance Colour Odour Odour threshold pН Melting point/freezing point Initial boiling point and boiling range Flash Point Evaporation rate Flammability (solid, gas) Upper/lower flammability or explosive limits Vapour pressure Density Vapour density Relative density Solubilitv(ies) Partition coefficient: n-octanol/water Ignition temperature Auto-ignition temperature Decomposition Temperature Kinematic Viscosity Explosive properties Oxidising properties 9.2 Other information Organic solvents - Content

Characteristic. Not determined. Not determined. Not determined -47.4°F (-44°C) <32°F (<0°C) Not available. Extremely flammable. Explosive Limit Ranges: 1.5 - 15.0 Vol-% 62.4 psig (4.3 bar) @ 68°F 36.2 lb/ft3 (0.58 g/cm3) @ 68°F Not determined. Not determined. Immiscible with water. Not determined. 689°F (365°C) Product is not selfigniting. Not determined. Not determined. Not explosive. Not oxidising. 96.4%

SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity
10.2	Chemical stability

- 10.3 Possibility of hazardous reactions
- Conditions to avoid 10.4
- 10.5 Incompatible materials
- Hazardous decomposition product(s) 10.6

Stable under normal conditions. Stable under normal conditions. Stable under normal conditions. Heat and direct sunlight. None anticipated. None known.

SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects
- 11.1.1 Mixtures Acute toxicity Irritation Corrosivity Sensitisation Repeated dose toxicity Carcinogenicity Mutagenicity Toxicity for reproduction Aspiration hazard 11.2 Other information

Low acute toxicity. Non-irritant. Not classified. It is not a skin sensitiser. None anticipated. No evidence of carcinogenicity. There is no evidence of mutagenic potential. None anticipated. None anticipated. None.



SEC	SECTION 12: ECOLOGICAL INFORMATION				
12.1 12.2 12.3 12.4 12.5 12.6	Toxicity Persistence and degradability Bioaccumulative potential Mobility in soil Results of PBT and vPvB assessment Other adverse effects	Low toxicity to aquatic organisms. The product is readily biodegradable. Unlikely to persist. The product has no potential for bioaccumulation. Immiscible with water. The product is predicted to have low mobility in soil. Not classified as PBT or vPvB. None.			
SEC	TION 13: DISPOSAL CONSIDERATIONS				
13.1 13.2	Waste treatment methods Additional Information	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. Disposal should be in accordance with local, state or national legislation.			
SEC	TION 14: TRANSPORT INFORMATION				
14.1 14.2 14.3 14.4 14.4	UN number ADR, IMDG, IATA UN proper shipping name ADR IMDG IATA Transport hazard class(es) ADR Class / Classification Label IMDG, IATA Class / Division Label Packing group ADR, IMDG, IATA Environmental hazards	UN 1950 1950 AEROSOLS AEROSOLS AEROSOLS, Flammable 2 5F Gases. 2.1 2.1 2.1 None.			
14.6 14.7 14.8	Marine Pollutant Special precautions for user Kemler Code IMDG EMS Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Additional Information ADR Limited Quantity (LQ)	No. Warning: Gases. - F-D, S-U Not applicable.			
	ADR Transport Category Tunnel Restriction Code IMDG Limited Quantity (LQ)	2 Not applicable in Limited Quantities.			
	IATA Limited Quantity (LQ)				
	UN Model Regulation US	UN 1950, AEROSOLS, 2.1 ORM-D when transported in limited quantities (< 30kg or 66lb gross weight).			



SECTION 15: REGULATORY INFORMATION

15.1 15.1.1	Safety, health and environmental regulations/legislation specific for the substance or mixture OSHA Toxic and hazardous substances (29 CFR 1910; Subpart Z) National emission standards for hazardous air pollutants (40 CFR 61.01)	Listed: Propane (CAS No.: 74-98-6) 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)
	Clean Air Act Section 112(r) Threshold Quantity	10000
	OSPAR List of Chemicals for Priority Action State Right to Know Lists	All chemicals are not listed. 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)

15.1.7 CAA 602 - Ozone Depleting Substances (ODS)

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

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

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All chemicals are not listed

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Annex to the extended Safety Data Sheet (eSDS)

No information available.