

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	Smoke Centurion.
	Trade Name	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 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 sh	eet
	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

Classification of the substance or mixture

	US CFR 1910.1200	Flam. Aerosol 1: Extremely flammable aerosol.
2.2	Label elements Hazard Pictogram(s)	Smoke Centurion 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

2.1

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



4.1 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.
- Most important symptoms and effects, both acute and delayed None anticipated. 4.2

- Unlikely to be required but if necessary treat symptomatically.
- 4.3 Indication of any immediate medical attention and special treatment needed

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	Collect mechanically and dispose of according to Section 13. Adsorb spillages
	cleaning up	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
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.

Gloves: Nitrile rubber, NBR.

8.3 Individual protection measures, such as personal protective equipment (PPE) If eye contact is likely: Wear protective eyewear (goggles, face shield, or

Eye/ face protection



Skin protection (Hand protection/ Other)



Respiratory protection



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

Wear suitable gloves if prolonged skin contact is likely.

Thermal hazards

Not applicable.

safety glasses).

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.
рН	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

9.2 Other information Organic solvents – Content Not oxidising.

96.4%

SECTION 10: STABILITY AND REACTIVITY

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

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
 Low

 Acute toxicity
 Low

 Irritation
 Non

 Corrosivity
 Not

 Sensitisation
 It is

 Repeated dose toxicity
 Non

 Carcinogenicity
 Noe

 Mutagenicity
 The

 Toxicity for reproduction
 Non

 Aspiration hazard
 Non

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.

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
	ΙΑΤΑ	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



Smoke Centurion

ed Fire P	roducts	
14.4	Packing group ADR, IMDG, IATA	None.
14.5	Environmental hazards	
14.0	Marine Pollutant	No.
14.6	Special precautions for user	Warning: Gases.
14.0	Kemler Code	Warning. Gases.
	IMDG EMS	- F-D, S-U
14.7	Transport in bulk according to Annex II of	г-ш, 3-0
14.7	MARPOL 73/78 and the IBC Code	Netensliechte
44.0		Not applicable.
14.8	Additional Information	
	ADR	
	Limited Quantity (LQ)	
	ADR Transport Category	2
	Tunnel Restriction Code	Not applicable in Limited Quantities.
	IMDG	
	Limited Quantity (LQ)	
	Limited Quantity (LQ)	
	LIN Model Regulation	
	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)	Listed: Propane (CAS No.: 74-98-6)		
		Listed: Ethanol (CAS No.: 64-17-5)		
	National emission standards for hazardous air pollutants (40 CFR 61	61.01) 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		
15.1.3	OSPAR List of Chemicals for Priority Action	All chemicals are not 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.		
	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: None.

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 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

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Annex to the extended Safety Data Sheet (eSDS)

No information available.