

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 AgainstNone 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 Flam. Aerosol 1: Extremely flammable aerosol.

2.2 Label elements Smoke Centurion

Hazard Pictogram(s)



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)	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.

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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.

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

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 Ensure adequate ventilation. Wear suitable gloves and eye/face protection. and emergency procedures

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

incompatibilities

Conditions for safe storage, including any

7.2

7.3

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.

Storage temperature Pressurized container: protect from sunlight and do not expose to temperatures

exceeding 122°F.

Storage life Stable under normal conditions.

Incompatible materials

Specific end use(s)

None anticipated.

Smoke simulation.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA	LTEL (8 hr TWA	STEL	STEL	Note
		ppm)	mg/m³)	(ppm)	(mg/m³)	
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.

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. 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/ft³ (0.58 g/cm³) @ 68°F

Vapour density
Relative density
Solubility(ies)
Partition coefficient: n-octanol/water
Ignition temperature
Not determined.
Not determined.
Not determined.
689°F (365°C)

Auto-ignition temperature Product is not selfigniting.

Decomposition Temperature

Kinematic Viscosity

Explosive properties

Not determined.

Not explosive.

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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 toxicityLow acute toxicity.IrritationNon-irritant.CorrosivityNot 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 reproductionNone anticipated.Aspiration hazardNone anticipated.

11.2 Other information None.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity Low toxicity to aquatic organisms.

12.2 Persistence and degradability
 12.3 Bioaccumulative potential
 The product is readily biodegradable. Unlikely to persist.
 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

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14.4 Packing group ADR, IMDG, IATA

14.5 Environmental hazards

Marine Pollutant

14.6 Special precautions for user

Kemler Code IMDG EMS

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Additional Information

ΔDR

14.8

Limited Quantity (LQ)

ADR Transport Category Tunnel Restriction Code

IMDG

Limited Quantity (LQ)

IATA

Limited Quantity (LQ)

Limited Quantity (EQ)

UN Model Regulation US

None.

No.

Warning: Gases.

-

1L

1L

F-D, S-U

Not applicable.



Not applicable in Limited Quantities.





UN 1950, AEROSOLS, 2.1

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)

Listed: Ethanol (CAS No.: 64-17-5) All chemicals are not listed.

National emission standards for hazardous air pollutants (40 CFR 61.01)

15.1.2 Title III Consolidated List of ListsListed: 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

15.1.4 State Right to Know ListsButane (CAS No.: 106-97-8):

New Jersey Demonstration Management of

New Jersey, Pennsylvania, Massachusetts, Rhode Island.

Propane (CAS No.: 74-98-6):

All chemicals are not listed.

New Jersey, Pennsylvania, Massachusetts.

Ethanol (CAS No.: 64-17-5):

New Jersey, Pennsylvania, Massachusetts.

15.1.5 TSCA (Toxic Substance Control Act)

15.1.6 Proposition 65 (California)

15.1.7 CAA 602 - Ozone Depleting Substances (ODS)

All chemicals listed.

All chemicals are not listed All chemicals are not listed.

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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

Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

No information available.

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