

SAFETY DATA SHEET

SDS0089US ACCORDING TO US CFR 1910.1200

1. 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.

1.2 Recommended use of the chemical and

restrictions on use

Identified Use(s)Smoke simulation.Uses Advised AgainstNone known.

1.3 Details of the supplier of the safety data sheet

Company Identification SDi

1345 Campus Parkway, Suite A18 Wall Township, NJ 07753 6815

 Telephone
 (732) 751 9266

 Fax
 (732) 751 9241

 E-mail
 sales@sdifire.com

1.4 Emergency telephone number

Info Trac 1-800-535-5053

2. 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

Product Name 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: Do not pierce or burn, even after use. P410+P412: Protect from sunlight. Do not expose to

temperatures exceeding 122°F (50°C).
Pressurized container: May burst if heated.

2.3 Other hazards None.

Additional Information

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3. 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.

4. SECTION 4: FIRST AID MEASURES



4.2

5.2

4.1 Description of first aid measures

rest in a position comfortable for breathing.

Skin Contact Wash with plenty of 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

4.3 Indication of any immediate medical attention Unlikely to be required but if necessary treat

and special treatment needed symptomatically.

5. SECTION 5: FIRE-FIGHTING MEASURES

Pressurized container: May burst if heated.

5.1 Extinguishing Media

Suitable Extinguishing Media Extinguish with carbon dioxide, dry chemical, foam or water

spray.

Unsuitable Extinguishing Media

Special hazards arising from the substance or Heatin

mixture

5.3 Advice for fire-fighters

Do not use water jet. Heating may cause pressure rise with risk of bursting.

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.

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6. 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

6.2 **Environmental precautions**

6.3 Methods and material for containment and

cleaning up

6.4 Reference to other sections Ensure adequate ventilation. Wear suitable gloves and

eye/face protection.

Do not release large quantities into the surface water or into

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.

7. 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.

Conditions for safe storage, including any 7.2

incompatibilities

Storage temperature

Observe official regulations on storing packagings with

pressurized containers.

Pressurized container: May burst if heated. Protect from sunlight and do not expose to temperatures exceeding 122°F

(50 °C).

Storage life Stable under normal conditions.

Incompatible materials None anticipated. Specific end use(s) 7.3 Smoke simulation.

8. 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	1	-	PEL (OSHA)

NIOSH = National Institue of Occupational Safety & Health OSHA = Occupational Safety and Health Administration

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8.2 Appropriate engineering controls

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

Eye/face protection

Skin protection (Hand protection/ Other)

Respiratory protection

Thermal hazards

Provide adequate ventilation.

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.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical

properties

Appearance Aerosol. Color Colorless Odor Characteristic. Odor Threshold Not determined. рΗ 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-%

62.4 psig (4.3 bar) @ 68°F Vapor pressure Density 36.2 lb/ft3 (0.58 g/cm3) @ 68°F

Vapor density Not determined. Not determined. Relative density Solubility(ies) Immiscible with water. Partition coefficient: n-octanol/water Not determined. 689°F (365°C)

Ignition temperature Product is not selfigniting. Auto-ignition temperature

Decomposition Temperature Not determined. Kinematic Viscosity Not determined. Explosive properties Not explosive. Oxidizing properties Not oxidizing.

9.2 Other information

> Organic solvents - Content 96.4%

10. 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. Conditions to avoid 10.4 Heat and direct sunlight. 10.5 Incompatible materials None anticipated.

Hazardous decomposition product(s) 10.6 None known.



11. 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

Sensitization It is not a skin sensitizer.

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.

Other information None.

12. 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.

Other adverse effects None.

13. 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.

14. SECTION 14: TRANSPORT INFORMATION

14.1 **UN** number UN 1950

ADR, IMDG, IATA

14.2 **UN proper shipping name** 1950 AEROSOLS ADR AFROSOLS

IMDG AEROSOLS, Flammable

IATA

14.3 Transport hazard class(es)

2 5F Gases Class / Classification

Label 2.1

IMDG, IATA

Class / Division 21 Label 2.1

14.4 Packing group

ADR, IMDG, IATA None.

Environmental hazards

Marine Pollutant No.

Special precautions for user Warning: Gases.

Kemler Code

IMDG EMS F-D. S-U Not applicable.

Transport in bulk according to Annex II of 14.7

MARPOL73/78 and the IBC Code

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14.8 **Additional Information**

ADR

Limited Quantity (LQ)

1 L

ADR Transport Category Tunnel Restriction Code

Not applicable in Limited Quantities.

IMDG

Limited Quantity (LQ)

1L



IATA

Limited Quantity (LQ)

1L



UN "Model Regulation" US

UN 1950, AEROSOLS, 2.1

ORM-D when transported in limited quantities (< 30kg or

66lb gross weight).

15. SECTION 15: REGULATORY INFORMATION

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)

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)

10000 Clean Air Act Section 112(r) Threshold Quantity

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.

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)

All chemicals are not listed. All chemicals are not listed.

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16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

NFPA		HMIS	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 for Occupational Safety and 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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