

## **SAFETY DATA SHEET**

SDS0089CA

# 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

Hazardous Products Regulations 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 50°C/ 122°F.
Pressurized container: May burst if heated.

Additional Information Pressurized container: May

2.3 Other hazards None.

Revision: 1 Page: 1/6 Date: 03/06/2015



#### 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



4.3

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 with plenty of 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** None anticipated.

acute and delayed 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 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.

#### 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

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.

Revision: 1 Page: 2/6 Date: 03/06/2015



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

#### 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.

7.2 Conditions for safe storage, including any

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 50°C

/122 °F

Storage life Stable under normal conditions.

Incompatible materials

None anticipated.

Specific end use(s)

Smoke simulation.

#### 8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

7.3

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	106-97-8	800	-	-	-	Canada (Ontario)
		800	1900	-	-	Canada (Québec)
Propane 74-98-6	74-98-6	1000	-	-	-	Canada (Ontario)
		1000	1800	-	-	Canada (Québec)
Ethanol 6	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

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

Eye/face protection



Provide adequate ventilation.

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

Revision: 1 Page: 3/6 Date: 03/06/2015



Skin protection (Hand protection/ Other) 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.

Respiratory protection

Thermal hazards Not applicable.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 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-%

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

Vapor 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. 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. **Chemical stability** 10.2 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. Hazardous decomposition product(s) 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.

Revision: 1 Date: 03/06/2015 Page: 4/6



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.

#### 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.

12.5 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

**UN** number

ADR, IMDG, IATA, TDG UN 1950

UN proper shipping name

1950 AEROSOLS **ADR** IMDG, TDG **AEROSOLS** IATA AEROSOLS, Flammable

14.3 Transport hazard class(es)

ADR

Class / Classification 2 5F Gases.

Label 2.1

IMDG, IATA, TDG

Class / Division 2.1 Label 2.1

Packing group 14.4

ADR, IMDG, IATA, TDG None.

14.5 **Environmental hazards** 

Marine Pollutant

14.6 Special precautions for user Warning: Gases.

Kemler Code

**IMDG EMS** F-D, S-U

Transport in bulk according to Annex II of 14.7

MARPOL73/78 and the IBC Code

14.8 **Additional Information** 

ADR

Limited Quantity (LQ)

Not applicable.

1 L

No.

**ADR Transport Category** Tunnel Restriction Code

Not applicable in Limited Quantities.



1L

1L

IMDG, TDG

Limited Quantity (LQ)

IATA, TDG

Limited Quantity (LQ)



**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

This product has been classified in accordance with HPR and the SDS contains all the information required by HPR.

#### Safety, health and environmental

regulations/legislation specific for the substance or mixture

#### 15.1.1 Canadian Regulations

Domestic Substances List (DSL) **Export Control List** Priority Substances List (PSL) Toxic Substances List

National Pollutant Release Inventory (NPRI) Substance List

All chemicals listed.

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

Listed: Propane (CAS No.: 74-98-6) Listed: Ethanol (CAS No.: 64-17-5)

#### **16. SECTION 16: OTHER INFORMATION**

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

**LEGEND** 

LTEL Long Term Exposure Limit STEL Short Term Exposure Limit

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

International Air Transport Association IATA

ORM-D Other Regulated Materials for Domestic Transport Only

HPR Hazardous Products Regulations

Safety Data Sheets SDS

#### **Disclaimers**

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Date: 03/06/2015 Revision: 1 Page: 6/6