

# SAFETY DATA SHEET

SDS0089CA-EN

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

**Product Name** Smoke Centurion.

Trade Name M8 Smoke-01-XXX (XXX denotes customer variant).

CAS No. Mixture. EINECS No. Mixture.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) Smoke simulation. Uses Advised Against None known.

Details of the supplier of the safety data sheet 1.3

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 +44 (0) 1707 282777 Fax E-mail SDS@detectortesters.com

### **SECTION 2: HAZARDS IDENTIFICATION**

2.1 Classification of the substance or mixture

WHMIS Classification

Label elements 2.2 Hazard Pictogram(s) Flam. Aerosol 1: Extremely flammable aerosol.

**Smoke Cenutrion** 



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.

Other hazards None.

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Product as supplied: Aerosol.

3.1 Mixtures

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

#### 3.2 Additional Information

None

#### **SECTION 4: FIRST AID MEASURES**



#### Description of first aid measures 4.1

Inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Wash skin with soap and water.

Eye Contact Flush eyes with water for at least 15 minutes while holding eyelids open. None anticipated.

Ingestion Unlikely route of exposure.

4.2 Most important symptoms and effects, both

acute and delayed

Skin Contact

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

and special treatment needed

Revision: 2 Page: 1/4 Date: 29/11/2017



### **SECTION 5: FIRE-FIGHTING MEASURES**

Pressurised container: May burst if heated.

**Extinguishing Media** 

5.2

7.2

7.3

Suitable Extinguishing Media

Unsuitable Extinguishing Media

Special hazards arising from the substance or mixture

5.3 Advice for fire-fighters Extinguish with carbon dioxide, dry chemical, foam or water spray.

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.

# **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 and emergency procedures

6.2 **Environmental precautions** 

Methods and material for containment and 6.3 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 drains.

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,

### **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. Observe official regulations on storing packagings with pressurized containers.

Conditions for safe storage, including any incompatibilities

Storage temperature

Pressurised 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) Smoke simulation.

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

#### **Control parameters** 8.1

**Occupational Exposure Limits** 8.1.1

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	-	-	-	Canada (Ontario)
		800	1900	-	=	Canada (Québec)
Propane	74-98-6	1000	-	-	-	Canada (Ontario)
		1000	1800		•	Canada (Québec)
Ethanol	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)

OSHA = Occupational Safety and Health Administration

- 8.2 Appropriate engineering controls
- 8.3 Individual protection measures, such as personal protective equipment (PPE)

Provide adequate ventilation.

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.

Revision: 2 Page: 2/4 Date: 29/11/2017



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

9.1 Information on basic physical and chemical properties

Appearance Aerosol.

Color Colourless.

Odour Characteristic.

Odour Threshold Not determined.

pH 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.

 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.
889°F (365°C)

Auto-ignition temperature Product is not selfigniting.

Decomposition Temperature

Kinematic Viscosity

Explosive properties

Oxidising properties

Not determined.

Not explosive.

Not oxidising.

9.2 Other information

Organic solvents – Content 96.4%

# **SECTION 10: STABILITY AND REACTIVITY**

Reactivity 10.1 Stable under normal conditions. Chemical stability 10.2 Stable under normal conditions. Possibility of hazardous reactions 10.3 Stable under normal conditions. Heat and direct sunlight. 10.4 Conditions to avoid 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.SensitisationIt 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 Aspiration hazard**None anticipated.
None 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.

12.6 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, TDG UN 1950

14.2 UN proper shipping name
ADR 1950 AEROS

ADR 1950 AEROSOLS IMDG, TDG AEROSOLS

IATA AEROSOLS, Flammable

14.3 Transport hazard class(es)



ADR

Class / Classification 2 5F Gases. 2.1

Label

IMDG, IATA, TDG Class / Division 2.1 2.1 Label

14.4 Packing group

ADR, IMDG, IATA, TDG None.

**Environmental hazards** 14.5

Marine Pollutant No.

Special precautions for user 14.6 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)

**ADR Transport Category Tunnel Restriction Code** Not applicable in Limited Quantities.

**IMDG** 

Limited Quantity (LQ)

IATA

Limited Quantity (LQ)



Not applicable.

1 L

1L

1L



**UN Model Regulation** UN 1950, AEROSOLS, 2.1

US ORM-D when transported in limited quantities (< 30kg or 66lb gross weight).

### **SECTION 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture

Canadian Regulations

Domestic Substances List (DSL) All chemicals listed All chemicals are not listed **Export Control List** Priority Substances List (PSL) All chemicals are not listed Toxic Substances List All chemicals are not listed

National Pollutant Release Inventory (NPRI) Listed: Propane (CAS No.: 74-98-6) Listed: Ethanol (CAS No.: 64-17-5) Substance List

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

The following sections contain revisions or new statements: 1,2,16

**LEGEND** 

Long Term Exposure Limit LTEL STEL Short Term Exposure Limit

Accord européen elative au transport international des marchandises dangereuses par route ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

**IMDG** International Maritime Code for Dangerous Goods

**HPR** Hazardous Products Regulations TDG Transportation of Dangerous Goods IATA International Air Transport Association

### **Disclaimers**

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### Annex to the extended Safety Data Sheet (eSDS)

No information available.