

# Material Safety Data Sheet

According to ISO/DIS 11014

Data sheet No. MSDS 0089USA

Issue No 1

Date: 11-15-2011

## Section 1 Identification of the substance/ preparation and of the company / undertaking

Product details – Trade name: Smoke Centurion™

Part number: M8 Smoke-01-XXX (XXX denotes product variant code)

Manufacturer/Supplier: 1345 Campus Parkway, Neptune, New Jersey 07753-6815 USA

Tel: (732) 938 9444 Fax: (732) 751 9266 Emergency Contact: InfoTrac: Tel: 1-800-535-5053

Web: www.sdifire.com

## Section 2 Composition/Data on components

### Chemical characterization Description:

Active substance with propellant

### Dangerous components:

CAS: 106-97-8	Butane (containing <0.1% butadiene 106-99-0)	GHS02 H220 GHS04 H280	50 – 100%
CAS: 74-98-6	Propane	GHS02 H220 GHS04 H280	10-<25%
CAS: 64-17-5	ethanol	GHS02 H225	1.0-<2.5%

## Section 3 Hazards identification

### Hazard description

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Classification according to Regulation (EC) No 1272/2008



Extremely flammable



GHS02 Flame  
H222 Extremely flammable aerosol  
H333 May be harmful if inhaled

### Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the “General Classification guideline for preparations of the EU” in the latest valid version.

Warning! Pressurized container.

Extremely flammable.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding **122°F** (50°C).

Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

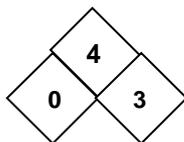
Keep away from sources of ignition – No smoking.

Build-up of explosive mixtures possible without sufficient ventilation.

Classification in accordance with Directive 75/324/EEC: Extremely flammable

Classification system: The classification is according to the latest editions of the international substances lists, and expanded upon by company and literature data.

### NFPA ratings (scale 0-4)



Health = 0  
Fire = 4  
Reactivity = 3

### WHMIS-ratings (scale 0-4)

HEALTH 0  
FIRE 4  
REACTIVITY 3

## GHS label elements

### Label elements

## GHS label elements

Labelling according to Regulation (EC) No 1272/2008



GHS02

**Signal word:** Danger

### Hazard statements:

Extremely flammable aerosol.

May be harmful if inhaled.

### Prevention:

Keep away from heat/sparks/open flames/hot surfaces. -No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

### Response:

Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

Eliminate all ignition sources if safe to do so.

### Storage:

Store in a well-ventilated place.

Protect from sunlight. Do not expose to temperatures exceeding / 122°F/ 50°C.

### Labelling according to EU guidelines:

The product has been classified and marked in accordance with directives on hazardous materials.

### Code letter and hazard designation of product:



Extremely flammable

### Risk phrases:

Extremely flammable.

### Safety phrases:

Keep out of the reach of children

Do not breathe fumes/aerosol

If swallowed, seek medical advice immediately and show this container or label

Use only in well-ventilated areas (or with appropriate PPE).

## Section 4 First-aid measures

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Generally the product does not irritate the skin.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After swallowing:** Do not induce vomiting; immediately call for medical help.

## Section 5 Fire-fighting measures

**Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:** Water with full jet.

**Protective equipment:** No Special measures required.

## Section 6 Accidental release measures

**Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

**Measures for environmental protection:** Do not allow to enter sewers/surface ground water.

**Measures for cleaning/collecting:** Ensure adequate ventilation.

## Section 7 Handling and storage

### Handling:

#### Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

#### Information about fire and explosion protection:

Keep ignition sources away. - Do not smoke.

Protect against electrostatic charges.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding **122°F** (50°C), i.e. electric lights.

Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

**Storage:****Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Observe official regulations on storing packages with pressurized containers.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:**

Keep receptacle tightly sealed.

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

<b>Section 8 Exposure controls and personal protection</b>
--

<b>Ingredients with limit values that require monitoring at the workplace:</b>
--

<b>106-97-8 butane</b> (containing <0.1% butadiene 106-99-0)	
--	--

REL	1990 mg/m <sup>3</sup> , 800 ppm
TLV	Varies mg/m <sup>3</sup> , 1000 ppm

<b>74-98-6 propane</b>	
------------------------	--

PEL	18000 mg/m <sup>3</sup> , 1000 ppm
REL	1800 mg/m <sup>3</sup> , 1000 ppm
TLV	Varies mg/m <sup>3</sup> , 1000 ppm

<b>64-17-5 ethanol</b>	
------------------------	--

PEL	1900 mg/m <sup>3</sup> , 1000 ppm
REL	1900 mg/m <sup>3</sup> , 1000 ppm
TLV	Short term value: 1880 mg/m <sup>3</sup> , 1000 ppm

**General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosol product.

**Breathing equipment:**

In cases of brief exposure or low pollution, respiratory filter device is not applicable when used in a well ventilated environment. In cases of intensive or longer term exposure use self-contained respiratory protective device. Use suitable respiratory protective device in cases of insufficient ventilation.

**Personal Protection:**

Wear PPE (personal protective equipment) appropriate to the task and the environment

<b>Section 9 Physical and chemical properties</b>
---

<b>General Information</b>
----------------------------

**Form:** Aerosol

**Colour:** According to product specification

**Odour:** Characteristic

<b>Change in condition</b>
----------------------------

**Melting point/Melting range:** Undetermined

**Boiling point/Boiling range:** - 47°F (-44°C)

**Flash point:** <32°F (<0°C)

**Ignition temperature:** 689°F (365.0°C)

**Self-igniting:** Product is not self igniting.

**Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures is possible.

**Explosion limits: Lower:** 1.5Vol% **Upper:** 10.9 Vol%

**Vapor pressure at 68°F (20°C):** 8300 hpa

**Density at 68°F (20°C):** 0.58 g/cm<sup>3</sup>

**Solubility in/miscibility with water:** Not miscible or difficult to mix.

**Solvent content: Organic solvents:** 96.4 %

<b>Section 10 Stability and reactivity</b>
--

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Dangerous reactions:** No dangerous reactions known.

**Dangerous decomposition products:** No dangerous decomposition products known.

<b>Section 11 Toxicological information</b>
---

**Acute toxicity:****Primary irritant effect:**

**on the skin:** No irritant effect.

**on the eye:** No irritating effect.

**Sensitization:** No sensitizing effects known.

## Section 12 Ecological information

**General notes:** generally not hazardous for water.

## Section 13 Disposal considerations

**Product: Recommendation:** Must not be disposed of together with household garbage.

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to local / official regulations.

## Section 14 Transport information

### DOT regulations

**Hazard class:** 2.1

**UN-Number:** UN 1950

**Packaging group:-**

**Proper shipping name:** AEROSOLS flammable



**Label 2.1**

**Description of goods:** 1950 AEROSOLS

### Land transport ADR/RID (cross-border):

**ADR/RID class:** 2 5F Gases

**Danger code (Kemler):** -

**UN-Number:** 1950

**Packaging group:** -

**Description of goods:** 1950 AEROSOLS



### Maritime transport IMDG:

**IMDG Class:** 2.1

**UN Number** 1950



**Label 2.1**

**Packaging group:**

**EMS Number:** F-D,S-U

**Maritime pollutant:** No

**Proper shipping name:** AEROSOLS

### Air transport ICAO-TI and IATA-DGR:

**ICAO/IATA Class:** 2.1

**UN/ID Number:** 1950



**Label 2.1**

**Packaging group:**

**Proper shipping name:** AEROSOLS, flammable

### Transport Canada-TDG regulations

**Primary Class:** 2.1

**UN Number:** 1950



**Label 2.1**

**Packaging group:** None for Class 2, Gases

**Proper shipping name:** Aerosols

## Section 15 Regulatory information

### Sara

#### Section 355 (extremely hazardous substances):

None of the ingredients are listed

#### Section 313 (specific toxic chemical listings):

None of the ingredients are listed

#### TSCA (Toxic Substances Control Act):

106-97-8 butane

74-98-6 propane

64-17-5 ethanol

110-27-0 isopropyl myristate

### Proposition 65

#### Chemicals known to cause cancer:

None of the ingredients listed

#### Chemicals known to cause reproductive toxicity for females:

None of the ingredients listed

#### Chemicals known to cause reproductive toxicity to males:

None of the ingredients listed

#### Chemicals known to cause developmental toxicity:

64-17-5 ethanol

### Carcinogenicity categories

#### EPA (Environmental Protection Agency):

None of the ingredients listed

#### IARC (International Agency for Research on Cancer):

None of the ingredients listed

#### NTP (National Toxicology Program):

None of the ingredients listed

#### TLV (Threshold Limit Value established by ACGIH):

64-17-5 ethanol

#### MAK (German Maximum Workplace Concentration):

64-17-5 ethanol

#### NIOSH-Ca (National Institute for Safety and Health):

None of the ingredients listed

#### OSHA-Ca (Occupational Safety and Health Administration):

None of the ingredients listed

#### National regulations:

#### Technical instructions (air):

Class	Share in %
NK	50-100

**Water hazard class:** Generally not hazardous for water.

#### WHMIS (Canada)

Class A: Compressed gas

Class B-5: Flammable aerosol

## 16 Other information

### Revision Status:

1. New Material Safety Data Sheet

11-15-2011

#### NOTE:

As our policy is one of continuous improvement, details of products described within this publication are subject to change without notice. All information provided here is believed to be correct at the time of going to press. Every effort has been made to ensure the accuracy of information which is provided in good faith but nothing contained herein is intended to incorporate any representation or warranty, either express or implied or to form the basis of any legal relations between the parties hereto, additional to or in lieu of such as may be applicable to a contract of sale or purchase.