

SAFETY DATA SHEET


SDS0089UK

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 453/2010

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

1.1 Product identifier	Product Name Trade Name CAS No. EINECS No. REACH Registration No.	Smoke Centurion. M8 Smoke-01-XXX (XXX denotes customer variant). Mixture. Mixture. None assigned.
1.2 Relevant identified uses of the substance or mixture and uses advised against	Identified use(s) Uses advised against	Smoke simulation. None known.
1.3 Details of the supplier of the Safety Data Sheet	Company Identification Telephone Fax E-mail	Detector testers (No Climb Products Ltd) Edison House 163 Dixons Hill Road Welham Green Hertfordshire. AL9 7JE. United Kingdom +44 (0) 1707 282760 +44 (0) 1707 282777 SDS@detector testers.com
1.4 Emergency telephone number	Emergency Phone No.	+44 (0) 1707 282760

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	Regulation (EC) No. 1272/2008 (CLP)	Aerosol 1; Extremely flammable aerosol. Pressurised container: May burst if heated.
2.2 Label elements	Hazard Pictogram(s)	According to Regulation (EC) No. 1272/2008 (CLP)
		
	Signal Word(s) Hazard Statement(s) Precautionary Statement(s)	GHS02 Danger. H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated. 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.
2.3 Other hazards		None.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

3.1 Mixtures

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Pictogram(s) and Hazard Statement(s)
Butane	50 - 100	106-97-8	203-448-7	01-2119474691-32	GHS02, Flam. Gas 1; H220, GHS04, Press. Gas: Liquefied gas; H280
Propane	10 - 25	74-98-6	200-827-9	01-2119486944-21	GHS02, Flam. Gas 1; H220, GHS04, Press. Gas: Liquefied gas; H280
Ethanol	0 - 5	64-17-5	200-578-6	None assigned	GHS02, Flam. Liq. 2; H225

3.2 Additional Information

For full text of H/P statements see section 16.

4. 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 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 acute and delayed

None anticipated.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

5. SECTION 5: FIRE-FIGHTING 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.

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.

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| 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. |
| 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. |
| 6.4 Reference to other sections | See Also Section: 8, 13. |

7. SECTION 7: HANDLING AND STORAGE

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|---|---|
| 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 | Observe official regulations on storing packagings with pressurised containers. |
| Storage Temperature | Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C. |
| Storage Life | Stable under normal conditions. |
| Incompatible materials | None anticipated. |
| 7.3 Specific end use(s) | 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 ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Butane	106-97-8	600	1450	750	1810	WEL
Ethanol	64-17-5	1000	1920	-	-	WEL

WEL: Workplace Exposure Limit (UK HSE EH40)

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| 8.1.2 Biological limit value | Not established. |
| 8.1.3 PNECs and DNELs | Not established. |
| 8.2 Exposure controls | |
| 8.2.1 Appropriate engineering controls | Provide adequate ventilation. |
| 8.2.2 Personal protection equipment | |
| Eye/face protection | If eye contact is likely: Wear protective eyewear (goggles, face shield, or safety glasses). |



<p>Skin protection (Hand protection/ Other)</p> 	<p>Wear suitable gloves if prolonged skin contact is likely. Gloves: Nitrile rubber, NBR.</p>
<p>Respiratory protection</p> 	<p>No personal respiratory protective equipment normally required. Handling of larger amounts: In case of insufficient ventilation, wear suitable respiratory equipment. A suitable mask with filter type A (EN14387 or EN405) may be appropriate.</p>
<p>Thermal hazards</p>	<p>Not applicable.</p>
<p>8.2.3 Environmental Exposure Controls</p>	<p>Do not release large quantities into the surface water or into drains.</p>

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<p>9.1 Information on basic physical and chemical properties</p> <p>Appearance</p> <p>Colour</p> <p>Odour</p> <p>Odour Threshold</p> <p>pH</p> <p>Melting Point/Freezing Point</p> <p>Initial boiling point and boiling range</p> <p>Flash Point</p> <p>Evaporation rate</p> <p>Flammability (solid, gas)</p> <p>Upper/lower flammability or explosive limits</p> <p>Vapour pressure</p> <p>Density</p> <p>Vapour density</p> <p>Relative density</p> <p>Solubility(ies)</p> <p>Partition coefficient: n-octanol/water</p> <p>Ignition temperature</p> <p>Auto-ignition temperature</p> <p>Decomposition Temperature</p> <p>Kinematic Viscosity</p> <p>Explosive properties</p> <p>Oxidising properties</p>	<p>Aerosol.</p> <p>Colourless.</p> <p>Characteristic.</p> <p>Not determined.</p> <p>Not determined.</p> <p>Not determined.</p> <p>-44 °C</p> <p><0 °C</p> <p>Not available.</p> <p>Extremely flammable.</p> <p>Explosive Limit Ranges: 1.5 – 15.0 Vol-%</p> <p>4.3 bar @ 20 °C</p> <p>0.58 g/cm³ @ 20 °C</p> <p>Not determined.</p> <p>Not determined.</p> <p>Immiscible with water.</p> <p>Not determined.</p> <p>365 °C</p> <p>Product is not selfigniting.</p> <p>Not determined.</p> <p>Not determined.</p> <p>Not explosive.</p> <p>Not oxidising.</p>
<p>9.2 Other information</p> <p>Organic solvents – Content</p>	<p>96.4%</p>

10. SECTION 10: STABILITY AND REACTIVITY

<p>10.1 Reactivity</p> <p>10.2 Chemical stability</p> <p>10.3 Possibility of hazardous reactions</p> <p>10.4 Conditions to avoid</p> <p>10.5 Incompatible materials</p> <p>10.6 Hazardous Decomposition Product(s)</p>	<p>Stable under normal conditions.</p> <p>Stable under normal conditions.</p> <p>Stable under normal conditions.</p> <p>Heat and direct sunlight.</p> <p>None anticipated.</p> <p>None known.</p>
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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.
	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 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	Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6	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	
	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
14.4	Packing Group	
	ADR, IMDG, IATA	None.
14.5	Environmental hazards	
	Marine Pollutant	No.
14.6	Special precautions for user	Warning: Gases.
	Kemler Code	-
	IMDG EMS	F-D, S-U
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

14.8 Additional Information

ADR

Limited Quantity (LQ)

1 L



ADR Transport Category
Tunnel Restriction Code

2

Not applicable in Limited Quantities.

IMDG

Limited Quantity (LQ)

1L



IATA

Limited Quantity (LQ)

1L



UN "Model Regulation"

UN 1950, AEROSOLS, 2.1

15. SECTION 15: REGULATORY INFORMATION

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

15.1.1 EU regulations

Authorisations and/or restrictions on use

Candidate List of Substances of Very High Concern for Authorisation

All chemicals are not listed.

REACH: ANNEX XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

All chemicals are not listed.

REACH: ANNEX XIV List of substances subject to authorisation

All chemicals are not listed.

Community Rolling Action Plan (CoRAP); Draft 29/02/2012

All chemicals are not listed.

15.1.2 National regulations

Wassergefährdungsklasse (Germany)

None known.

Ethanol

Technical Instructions (air)

WGK class 1

Class	Share in %
NK	50 – 100

VOC-CH

96.45%

VOC-EU

559.4g/l

Danish MAL Code

3-1

15.2 Chemical Safety Assessment

Not available.

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
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
WGK	Wassergefährdungsklasse (Germany)
VOC	Volatile Organic Compounds
MAL Code	Måleteknisk Arbejdshygienisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
ADR	Accord européen relative 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
Press. Gas	Gases under pressure
Flam. Gas 1	Flammable gas Category 1

Hazard Statement(s)

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.

Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

No information available.