

Smoke Centurion


SAFETY DATA SHEET

SDS0089AU-F

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.
REACH Registration No.	None assigned.
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Identified use(s)	Smoke simulation.
Uses advised against	None known.
1.3 Details of the supplier of the safety data sheet	
Company Identification	FlameStop NEW/ACT (Head Office) 1/70 Lower Gibbes Street CHATSWOOD, NSW. 2067
Telephone	02 9932 2020
Fax	02 9932 2022
E-mail	sales@flamestop.com.au
1.4 Emergency telephone number	
Emergency Phone No.	0425 342 729
1.5 Details of the manufacturer	
Company Identification	Detectortesters (No Climb Products Ltd) Edison House 163 Dixons Hill Road Welham Green Hertfordshire. AL9 7JE. United Kingdom
Telephone	+44 (0) 1707 282760
Fax	+44 (0) 1707 282777
E-mail	SDS@detectortesters.com

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture According to GHS 3rd revised edition	Aerosol 1; Extremely flammable aerosol. Pressurised container: May burst if heated.
2.2 Label elements	According to Regulation (EC) No. 1272/2008 (CLP)
Hazard Pictogram(s)	
Signal Word(s)	GHS02 Danger.
Hazard Statement(s)	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.
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.
2.3 Other hazards	None.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

3.1 Mixtures

GHS 3rd Revised Edition

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.

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

Skin Contact

Eye Contact

Ingestion

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, obtain medical attention.

Wash skin with soap and water. If skin irritation occurs, seek medical attention.

Flush eyes with water for at least 15 minutes while holding eyelids open. If eye irritation persists, seek medical attention.

Unlikely route of exposure.

None anticipated.

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Pressurised container: May burst if heated.

5.1 Extinguishing Media

Suitable Extinguishing Media

Unsuitable Extinguishing Media

5.2 Special hazards arising from the substance or mixture

5.3 Advice for fire-fighters

Extinguish with carbon dioxide, dry chemical, foam or waterspray.

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.

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 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

7.2 Conditions for safe storage, including any incompatibilities

Storage Temperature

Storage Life

Incompatible materials

7.3 Specific end use(s)

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 pressurised containers.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C.

Stable under normal conditions.

None anticipated.

Smoke simulation.

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)

8.1.2 Biological limit value

8.1.3 PNECs and DNELs

8.2 Exposure controls

8.2.1 Appropriate engineering controls

8.2.2 Personal protection equipment

Eye/face protection

Not established.

Not established.

Provide adequate ventilation.

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



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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. A suitable mask with filter type A (EN14387 or EN405) may be appropriate.

Thermal hazards

Not applicable.

8.2.3 Environmental Exposure Controls

Do not release large quantities into the surface water or into drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Colourless.
Odour	Characteristic.
Odour Threshold	Not determined.
pH	Not determined.
Melting Point/Freezing Point	Not determined.
Initial boiling point and boiling range	-44 °C
Flash Point	<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-%
Vapour pressure	4.3 bar @ 20 °C
Density	0.58 g/cm ³ @ 20 °C
Vapour density	Not determined.
Relative density	Not determined.
Solubility(ies)	Immiscible with water.
Partition coefficient: n-octanol/water	Not determined.
Ignition temperature	365 °C
Auto-ignition temperature	Product is not selfigniting.
Decomposition Temperature	Not determined.
Kinematic Viscosity	Not determined.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2 Other information

Organic solvents – Content	96.4%
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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.
10.4 Conditions to avoid	Heat and direct sunlight.
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 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.
Other information	None.

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.

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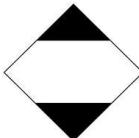
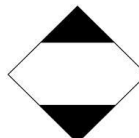


12.6 Other adverse effects None.

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	UN 1950
ADR, IMDG, IATA	
14.2 UN Proper Shipping Name	1950 AEROSOLS
ADR	AEROSOLS
IMDG	AEROSOLS, Flammable
IATA	
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	None.
ADR, IMDG, IATA	
14.5 Environmental hazards	No.
Marine Pollutant	Warning: Gases.
14.6 Special precautions for user	-
Kemler Code	F-D, S-U
IMDG EMS	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
14.8 Additional Information	
ADR	
Limited Quantity (LQ)	1 L
	
ADR Transport Category	2
Tunnel Restriction Code	Not applicable in Limited Quantities.
IMDG	
Limited Quantity (LQ)	1L
	
IATA	
Limited Quantity (LQ)	1L
	 
UN Model Regulation	UN 1950, AEROSOLS, 2.1

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
 REACH: ANNEX XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
 REACH: ANNEX XIV List of substances subject to authorisation
 Community Rolling Action Plan (CoRAP);

All chemicals are not listed.

All chemicals are not listed.

All chemicals are not listed.

All chemicals are not listed.

None known.

15.1.2 National regulations

Wassergefährdungsklasse (Germany)
 Ethanol
 Technical Instructions (air)

WGK class 1

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VOC-CH

96.45%

VOC-EU

559.4g/l

Danish MAL Code

3-1

15.2 Chemical Safety Assessment

Not available.

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

Class	Share in %
NK	50 – 100

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 Arbejdshygiejnisk 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.