

Safety Data Sheet

According to 1907/2006 EC (REACH) & 453/2010

Data sheet No SDS 0084UK

Issue No 3

Date: 30 August 2013

Section 1 Identification of the substance/mixture and of the company / undertaking

1.1 Product Identifier

Trade name: **smoke sabre**
Part number: **Smokesabre-01-XXX** (XXX denotes product variant)

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

Identified Uses: Smoke Simulation
Uses advised against: None known

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Detectortesters (No Climb Products Ltd),
Edison House,
163 Dixons Hill Road,
Welham Green,
Hertfordshire. AL9 7JE

Tel: +44 (0)1707 282760
Fax: +44 (0)1707 282777
Web: www.detectortesters.com

1.4 Emergency telephone number: Tel: + 44 (0)1707 282760

Section 2 Hazards identification

2.1 Classification of the substance or mixture

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



F+; Extremely flammable

R12: Extremely flammable.

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! Pressurised container.

R 12 Extremely flammable.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 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 system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label elements

Labelling according to EU guidelines

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:



F+ Extremely flammable

Risk phrases:

12 Extremely flammable.

Safety phrases:

2 Keep out of the reach of children

23 Do not breathe fumes/aerosol

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

51 Use only in well-ventilated area

Additional information:

Prevention:

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

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

Pressurised 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 50°C/ 122°F.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Section 3 Composition/information on ingredients

3.1 Mixtures

Description: Active substance with propellant

EC Classification 67/548/EEC

Dangerous components:			
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	Butane (containing <0.1% butadiene 106-99-0, 203-450-8)	F+;R 12 GHS02 Flam. Gas 1, H220 GHS04 Press. Gas, H280	50-100%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	Propane	F+;R 12 GHS02 Flam. Gas1, H220 GHS04 Press. Gas, H280	10-<25%
CAS: 64-17-5 EINECS: 200-578-6	ethanol	F; R 11 GHS02 Flam. Liq 2, H225	1.0-<2.5%

Section 4 First-aid measures

4.1 Description of 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; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

Section 5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Water haze
Fire-extinguishing powder
Carbon dioxide
Alcohol resistant foam

For safety reasons unsuitable extinguishing agents:

Water with full jet

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment:

Mount respiratory protective device.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

No special measures required.

6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7 Handling and storage

7.1 Precautions 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.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 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.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packages with pressurised containers.

Information about storage in one common storage facility:

Observe official regulations on storing packages with pressurised containers.

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.

7.3 Specific end use(s)

No further relevant information available.

Section 8 Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
106-97-8 butane (containing <0.1% butadiene 106-99-0)	
WEL	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
74-98-6 propane	
WEL	Short-term value: 3600 mg/m ³ , 2000 ppm Long term value: 1800 mg/m ³ , 1000 ppm
64-17-5 ethanol	
WEL	Long term value: 1920 mg/m ³ , 1000 ppm

8.2 Exposure controls

Personal protective equipment (PPE):

Wear PPE appropriate to the task and the environment.

General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Respiratory protection:

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 exposure use self-contained respiratory protective device. Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:

Wear suitable solvent resistant gloves if prolonged skin contact is likely.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves Nitrile rubber, NBR

Eye protection:

Wear suitable goggles if eye contact is likely.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Appearance:	
Form:	Aerosol
Colour:	Colourless
Odour:	Characteristic
Odour threshold:.	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	-44 °C
Flash point:	< 0 °C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	365 °C
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	1.5 Vol %
Upper:	15.0 Vol %
Vapour pressure at 20 °C:	4.3 Bar
Density at 20 °C:	0.58 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not applicable.

Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	96.4 %
Solids content:	2.0 %

9.2 Other information: No further relevant information available.

Section 10 Stability and reactivity

10.1 Reactivity	No further relevant information available.
10.2 Chemical stability	
Thermal decomposition:	No decomposition if used according to specifications.
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to avoid:	No further relevant information available.
10.5 Incompatible materials:	No further relevant information available.
10.6 Hazardous decomposition products:	No dangerous decomposition products known.

Section 11 Toxicological information

11.1 Information on toxicological effects	
Acute toxicity:	
Primary irritant effect:	
on the skin:	No irritant effect.
on the eye:	No irritating effect.
Sensitisation:	No sensitising effects known.

Section 12 Ecological information

12.1 Toxicity	
Aquatic toxicity:	No further relevant information available.
12.2 Persistence and degradability	No further relevant information available.
12.3 Bioaccumulative potential	No further relevant information available.
12.4 Mobility in soil	No further relevant information available.
Additional ecological information:	
General notes:	Generally not hazardous for water
12.5 Results of PBT and vPvB assessment	
PBT:	Not applicable.
vPvB:	Not applicable.
12.6 Other adverse effects	No further relevant information available.

Section 13 Disposal considerations

13.1 Waste treatment methods

Product: Recommendation:

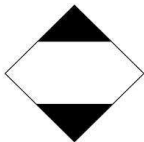
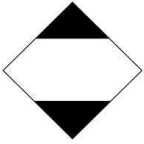
Must not be disposed of together with domestic waste. Do not allow product to reach sewage system.

European waste catalogue	
20 01 99	other fractions not otherwise specified
07 01 04	other organic solvents, washing liquids and mother liquors
15 01 04	metallic packaging

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Section 14 Transport information

14.1	UN-Number ADR, IMDG, IATA	UN1950
14.2	UN proper shipping name ADR IMDG IATA	1950 AEROSOLS AEROSOLS AEROSOLS, flammable
14.3	Transport hazard class(es) ADR Class Label IMDG, IATA Class Label	2 5F Gases. 2.1 2.1 2.1
14.4	Packing group ADR, IMDG, IATA	None
14.5	Environmental hazards: Marine pollutant:	No
14.6	Special precautions for user Danger code (Kemler): IMDG EMS Number:	Warning: Gases. - F-D,S-U
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
14.8	Transport/Label/Additional information: ADR Limited quantities (LQ) Transport category Tunnel restriction code IMDG Limited quantities (LQ) IATA Limited quantities (LQ)	1L  2 D   
	UN "Model Regulation":	UN1950, AEROSOLS, 2.1

Section 15 Regulatory information

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

National regulations:

Technical instructions (air):

Class	Share in %
NK	50-100

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

VOC-CH 96.45 %

VOC-EU 559.4 g/l

Danish MAL Code 3-1

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Classification of the substance or mixture

According to Regulation (EC) No 1272/2008:



GHS02

Signal word: Danger

Flam. Aerosol 1: Extremely flammable aerosol. Pressurised container: May burst if heated

Relevant phrases

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

R11 Highly flammable.

R12 Extremely flammable.

Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport 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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

Revision Status:

- | | |
|---|------------|
| 1. New Material Safety Data Sheet | 04-06-2008 |
| 2. Classification to Regulation (EC) No 1272/2008 | 05-05-2011 |
| 3. Reformatted to Regulation (EC) No 453/2010 (CLP classification moved to section16) | 30-08-2013 |

NOTE: The information is based on the best knowledge of No Climb Products Ltd. and its advisors and is given in good faith, but we cannot guarantee its accuracy, reliability or completeness and therefore disclaim any liability for loss or damage arising out of use of this data. Since conditions of use are outside the control of the Company and its advisors we disclaim any liability for loss or damage when the product is used for purposes other than it is intended.