

Material Safety Data Sheet

According to 1907/2006 EC, Article 31

Data sheet No MSDS 0084UK

Issue No 2

Date: 05-05-2011

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

Product details – Trade name: smoke sabre**Part number: SS01-XXX** (XXX denotes product variant)**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

Section 2 Hazards identification

Hazard description

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



F+ Extremely flammable

Classification according to Regulation (EC) No 1272/2008



GHS02 Flame

Flam. Aerosol 1H222 Extremely flammable aerosol

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.

R 12 Extremely flammable.

Pressurized 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.

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

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 50°C/ 122°F.

Section 3 Composition/information on ingredients**Chemical characterization Description:**

Active substance with propellant

Dangerous components:

CAS: 106-97-8 EINECS: 203-448-7	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	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

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.

Section 5 Fire-fighting measures

Suitable extinguishing agents: CO₂, 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 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.

Section 8 Exposure controls/personal protection

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 pm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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74-98-6 propane

WEL	Short-term value: 3600 mg/m ³ , 2000 ppm Long term value: 1800 mg/m ³ , 1000 ppm
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64-17-5 ethanol

WEL	Long term value: 1920 mg/m ³ , 1000 ppm
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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.

Personal Protection:

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

Section 9 Physical and chemical properties

General Information

Form: Aerosol

Colour: According to product specification

Odour: Characteristic

Change in condition

Melting point/Melting range: Undetermined

Boiling point/Boiling range: -44 °C

Flash point: <0 °C

Ignition temperature: 365.0 °C

Self-igniting: Product is not self igniting.

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

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

Vapour pressure at 20 °C: 8300 hPa

Density at 20 °C: 0.58 g/cm³

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

Solvent content: Organic solvents: 96.4 %

Section 10 Stability and reactivity

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.

Section 11 Toxicological information

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. 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

Land transport ADR/RID (cross border)

ADR/RID class: 2.5F Gases.

Danger code (Kemler): 23**UN-Number:** 1950

Packaging group: -



Hazard label 2.1

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

UN "Model Regulation": UN1950; AEROSOLS; 2.1; -

Section 15 Regulatory information

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:



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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 areas.

Special labelling of certain preparations: Pressurized 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 in accordance with Directive 75/324/EEC: Extremely Flammable

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 97.45 %

VOC-EU 97.45 %

16 Other information

Revision Status:

1. New Material Safety Data Sheet

04-06-2008

2. Classification to Regulation (EC) No 1272/2008

05-05-2011

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.