

PRODUCT INFORMATION

Trade name: Smoke-Sabre

Part number: SS01-XXX (XXX denotes product variant)

Manufacturer/Supplier: Detectortesters (No Climb Products Ltd)

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Revision Status:

New Material Safety Data Sheet 16-7-2020



COMPOSITION

Chemical characterization Description:

Active substance with propellant

Material	EINECS No.	CAS No.	Content %	Hazard Pictograms & Statements
Butane	203-448-7	106-97-8	50-100	GHS02, Flam. Gas 1; H220, GHS04, Press. Gas; H280
Propane	200-827-9	74-98-6	10-25	GHS02, Flam. Gas 1; H220, GHS04, Press. Gas; H280
Ethanol	200-578-6	64-17-5	0-5	GHS02, Flam. Liq. 2; H225

HAZARDS IDENTIFICATION

Hazard description



GHS02

Signal Words:

Danger

Hazard Statements:

H222: Extremely flammable aerosol

H229: Pressurised container: May burst if heated.

Precautionary Statements:

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

P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C.

FIRST AID MEASURES

Inhalation	If breathing is difficult, remove victim to fresh air & keep at rest in a position comfortable for breathing.
Skin Contact	Wash skin with soap & water.
Eye Contact	Flush eyes with water for at least 15 minutes while holding eyelids open.
Ingestion	Unlikely route of exposure.

FIRE FIGHTING MEASURES

Suitable extinguishing agents: Carbon dioxide, dry chemical, foam or waterspray.

Unsuitable extinguishing agents: Do not use water jet.

Special hazards arising from substance or mixture: Heating may cause pressure rise with risk of bursting.

Advice for firefighters: 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.

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.

Person-related safety precautions: Wear protective equipment. Ensure adequate ventilation.

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

Measures for cleaning/containment: Collect mechanically and dispose of according to the disposal considerations on page 4. 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.

HANDLING AND STORAGE

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.

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.

Specific end uses: Smoke simulation.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Substance	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Butane	106-97-8	600	1450	750	1810	WEL
Ethanol	64-17-5	1000	1920	-	-	WEL

WEL: Workplace Exposure Limit (UK HSE EH40)

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. In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face protection: If eye contact is likely, wear protective eyewear (goggles, face shield, safety glasses).

PHYSICAL & CHEMICAL PROPERTIES

General Information	
Appearance	Aerosol
Colour	Colourless
Odour	Characteristic
Change in Condition	
Melting point/freezing point	Undetermined
Boiling point/range	-44°C
Flash point	<0°C
Flammability	Extremely flammable
Ignition temperature	365°C
Self-igniting	Product is not self-igniting
Danger of explosion	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
Upper/lower Flammability or Explosive limits	Explosive limit ranges: 1.5 - 15.0 Vol-%
Vapour pressure at 20°C	4.3 bar @ 20°C
Density at 20°C	0.58g/cm ³
Solubility in/miscibility with water	Immiscible with water
Solvent content (organic solvents)	96.4%
Auto-ignition Temperature	Product is not self-igniting
Decomposition Temperature	Not determined
Kinematic Viscosity	Not determined
Explosive Properties	Not explosive
Oxidising Properties	Not oxidising

STABILITY & REACTIVITY

Conditions to be avoided	Heat and direct sunlight
Possibility of hazardous reactions	No hazardous reactions known if used as intended
Hazardous decomposition products	No dangerous decomposition products known

TOXICOLOGICAL INFORMATION

Acute toxicity	Low acute toxicity
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

ECOLOGICAL INFORMATION

Toxicity: Low toxicity to aquatic organisms.

Persistence and degradability: Readily biodegradable.

Bioaccumulative potential: No potential.

Mobility in soil: Immiscible with water. Low mobility in soil.

DISPOSAL CONSIDERATIONS

Waste treatment methods: Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. If not empty, dispose in approved waste disposal facility.

Additional information: Disposal must be made according to official local, state or national legislation.

TRANSPORT INFORMATION

Tests are performed according to:

Land transport ADR/RID (cross border) ADR/RID class: 2.5F Gases 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 Marine 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; -
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REGULATORY INFORMATION

Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives/Ordinance on Hazardous Materials.

National regulations:

Technical instructions (air):

Ethanol: WGK Class 1

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 559.4g/l

DanishMAL Code: 3-1

OTHER INFORMATION

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	Wannergefährdungsklasse (Germany)
VOC	Volatile Organic Compounds
MAL Code	Maleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labelling concerning inhalation hazards, Denmark)
ADR	Accord europeen elative 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

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