SAFETY DATA SHEET
Detectasmoke®

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

1.1 Product identifier
1.2

Product name	Detectasmoke®
Internal Id	DS1

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

Identified Uses	Smoke Alarm Testing

1.4 Details of the supplier of the safety data sheet

Supplier	Gas Safe Europe Ltd E35 Ashmount Enterprise Park Aber Road Flint Flintshire CH6 5YL United Kingdom 0845 8734760 07912 503202 emergency enquiries@gassafeeurope.com

1.5 Emergency telephone number
+44 (0) 7912 503202

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification:	**(EC 1272/2008)**
Physical hazards:	**Aerosol 3 – H229**
Health hazards:	**Not Classified**
Environmental hazards:	**Not Classified**
Human health:	**The product is not expected to be hazardous to the environment.**
Physicochemical:	**Containers can burst violently or explode when heated, due to excessive pressure build-up.**

2.2 Label elements

Signal word:	Warning
Hazard statements:	H229 Pressurised container: may burst if heated
Precautionary statements:	P102 Keep out of reach of children. P251 Do not pierce of burn, even after use. P261 Avoid breathing vapour/spray. P271 Use only outdoors or in a well-ventilated area. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50ºC/122ºF
Supplemental label Information:	ADD1 7.7% by mass of the contents are flammable.

2.3 Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

1,1,1,2-TETRAFLUOROETHANE **60-100%**

CAS-No.: 811-97-2 EC No.: 212-377-0

Classification
Press. Gas, Compressed – H280

PROPAN-2-OL 5-10%

CAS-No.: 67-63-0 EC No.: 200-661-7 REACH registration number: 01-2119457558-25-XXXX

Classification
Flam. Liq. 2 - H225
Eye Irrit. 2 - H319
STOT Single 3 - H336

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information: Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

Inhalation: Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If in doubt, get medical attention promptly.

Ingestion: Rinse mouth thoroughly with water. Remove person to fresh air and keep comfortable for breathing. Get medical attention.

Skin contact: Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye contact: Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

Protection of first aiders: First aid personnel should wear appropriate protective equipment during any rescue.

4.2. Most important symptoms and effects, both acute and delayed

General information: See section 11 for additional information on health hazards.

4.3. Indication of any immediate medical attention and special treatment Needed

Notes for the Doctor: Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Specific hazards: Containers can burst violently or explode when heated, due to excessive pressure build-up.

5.3. Advice for fire fighters

Protective actions during Fire fighting: Use water to keep fire exposed containers cool and disperse vapours. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid inhalation of vapours and contact with skin and eyes. Ensure suitable respiratory protection is worn during removal of spillages in confined areas.

6.2. Environmental precautions

Environmental precautions: Avoid discharge into drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

Reference to other sections: For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Usage precautions: Use suitable respiratory protection if ventilation is inadequate. Read and follow manufacturer's recommendations.

Advice on general Occupational hygiene: Wash promptly with soap and water if skin becomes contaminated. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions: Protect from freezing and direct sunlight. Store in a dry place. Do not store near hear sources or expose to high temperatures.

7.3. Specific end use(s)

Specific end use(s): The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

1,1,1,2-TETRAFLUOROETHANE

Long-term exposure limit (8-hour TWA): 1000ppm 4240 mg/m³

PROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999mg/m³
Short-term exposure limit (15-minute): WEL 500ppm 1250 mg/m³
WEL = Workplace Exposure Limit

1,1,1,2-TETRAFLUOROETHANE (CAS: 811-97-2)

DNEL Workers – Inhalation; Long term systemic effects: 13936 mg/m³

PNEC
- Marine water; 0.01 mg/l
-Intermittent release; 1mg/l
-STP; 73 mg/l
-Sediment (Freshwater); 0.75 mg/kg
-Fresh water; 0.1 mg/l

PROPAN-2-OL (CAS: 67-63-0)

DNEL
Workers – Dermal; Long term systemic effects: 888 mg/kg/day
Workers – Inhalation; Long term systemic effects: 500 mg/m³
Consumer – Dermal; Long term systemic effects: 319 mg/kg/day
Consumer – Inhalation; Long term systemic effects: 89 mg/m³
Consumer – Oral; Long term systemic effects: 26 mg/kg/day

PNEC
-Fresh water; 140.9 mg/l
-Marine water; 140.9 mg/l
-Intermittent release; 140.9 mg/l
-STP; 2251 mg/l
-Soil; 28 mg/kg
-Sediment; 552 mg/kg

8.2. Exposure controls

Eye/face protection: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection: No specific hand protection recommended.

Other skin and body protection: Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist.

Respiratory protection: No specific recommendations. If ventilation is inadequate, suitable respiratory protection must be worn.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Aerosol.

Colour: Clear.

Odour: Solvent.

Odour threshold: No information available.

pH: No information available.

Melting point: No information available.

Initial boiling point and range: -26.4 (-26.4 TO 82) ºC

Flash point: 12ºC CC (Closed cup).

Evaporation rate: No information available.

Evaporation factor: No information available.
Flammability (solid,gas): Non-Flammable; Tested to EU Directive 2008/47/EC

Upper/lower flammability or Explosive limits: Lower flammable/explosive limit: 2.0% Upper flammable/explosive limit: 12.0%

Vapour pressure: No information available.

Vapour density: No information available.

Relative density: 1.168

Solubility(les): Slightly soluble in water.

Auto-Ignition temperature: 399ºC

Decomposition Temperature: No information available.

Viscosity: No information available.

Explosive properties: No information available.

Oxidising properties: No information available.

Comments: Information given for Auto ignition temperature is applicable for a constituent chemical.

9.2. Other information

Other information: None.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity: No test data specifically related to reactivity available for this product or its ingredients.

10.2. Chemical stability

Stability: The product may not be stable under some conditions of storage or use.

10.3. Possibility of hazardous reactions

Possibility of hazardous Reactions: None known.

10.4. Conditions to avoid

Conditions to avoid: Avoid exposing aerosol containers to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to Avoid: None known.

10.6. Hazardous decomposition products

Hazardous decomposition products: None at ambient temperatures.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhalation: Vapours in high concentrations are narcotic. Vapours may cause headache, fatigue, dizziness and nausea.

Skin contact: Skin irritation should not occur when used as recommended.

Eye contact: Vapour or spray in the eyes may cause irritation and smarting.

Acute and chronic Health hazards: No known chronic or acute health risks.

Route of entry: Inhalation Skin and/or eye contact

1,1,1,2-TETRAFLUOROETHANE

Acute toxicity – Inhalation

Acute toxicity Inhalation (LC_{50} gases ppmV)	**567,000.0**
Species	Rat
ATE inhalation (gases ppm)	**567,000.0**

PROPAN-2-OL

Acute toxicity – oral

Acute toxicity oral (LD_{50} mg/kg)	5,045.0
Species	Rat
ATE oral (mg/kg)	5,045.0

Acute toxicity – dermal

Acute toxicity dermal (LD50 mg/kg)	12,800.0
Species	Rabbit
ATE dermal (mg/kg)	12,800.0
Acute toxicity – inhalation (LC_{50} vapours mg/l)	30.0
Species	Rat
ATE inhalation (vapours mg/l)	30.0

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

PROPAN-2-OL

Acute toxicity – fish	LC_{50}, 96 hours: 9640 mg/l, Pimephales promelas (Fat-head minnow)
Acute toxicity – aquatic invertebrates	EC_{50}, 48 hours: 13299 mg/l, Daphnia magna

Acute toxicity – aquatic plants	EC50, 72 hours: >1 mg/l, Desmodesmus subspicatus

12.2. Persistence and degradability

Persistence and degradability: The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

12.4. Mobility in soil

Mobility: The product is expected to have low soil mobility.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects: None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

General information: Dispose of waste product or used containers in accordance with local regulations.

Disposal methods: Containers should be thoroughly emptied before disposal because of the risk of an explosion. Do not pierce or burn, even after use.

SECTION 14: TRANSPORT INFORMATION

General As supplied, this product is consigned under the Limited Quantity provisions.

14.1. UN number

UN No. (ADR/RID) 1950

UN No. (IMDG) 1950

UN No. (ICAO) 1950

UN No. (ADN) 1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID) AEROSOLS

Proper shipping name (IMDG) AEROSOLS

Proper shipping name (ICAO) AEROSOLS, Non-flammable

Proper shipping name (ADN) AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class: 2.2

ADR/RID classification code: 5A

ADR/RID label: 2.2

IMDG class: 2.2

ICAO class/division: 2.2

ADN class: 2.2

Transport labels

14.4. Packing group

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant : No

14.6. Special precautions for user

EmS: F-D, S-U

ADR transport category: 3

Tunnel restriction code: (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

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

National regulations: The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).

EU Legislation: Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (as amended).

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Date:	10/01/2017
Revision:	2
Supercedes date:	05/01/2016
SDS number:	5744
Hazard statements in full:	H225 Highly flammable liquid and vapour. H229 Pressurised container: may burst if heated. H280 Contains gas under pressure; may explode if heated. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.