



**Illumino Ignis Ltd**  
LIGHTING & FIRE DESIGN, SUPPLY & SUPPORT

# DetectaSmoke®

## Accessories – Detector Servicing

Part No. DSF1 | DSF2

### Product Details

The Detectasmoke DSF1 is a synthetic smoke detector test gas in an aerosol, which delivers particles imitating those found in real smoke to the detector.

Suitable for all pole delivery systems and handheld use.

### Key Features

- Compact solution to cleaning detectors as part of the annual service
- Compatible with all pole delivery systems
- 250ml size
- Flammable



## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

According to 1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation:

Extremely Flammable Aerosol Category1

### 2.2 Label elements

Labelling according to EC Directives: 1272/2008/EC:

<b>Signal Word</b>	Danger
<b>Pictogram(s)</b>	
<b>H-Statements</b>	H222 – Extremely flammable aerosol. H229 – Pressurised container: May burst if heated.
<b>P-Statements</b>	P261 – Avoid breathing vapour/spray. P271 – Use only outdoors or in a well-ventilated area. P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.

### 2.3 Other hazards

In use, may form flammable / explosive vapour-air mixture.


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## Accessories – Detector Servicing

### Part No. DSF1 | DSF2

## 3. Composition / Information on Ingredients

### 3.1 Mixtures

#### Hazardous components

Chemical Name	CAS No./ EC No./ Reg. No	Classification (1272/2008/EC)	Content
Liquefied Petroleum Gas (contains <0.1% 1,3-butadiene)	68476-85-7 270-704-2	Flam.Gas 1; H220 Gas under pressure; H280	>90%

See Section 16 for the full text of the H-statements noted above.

## 4. First Aid Measures

### 4.1 Description of first aid measures

#### General advice:

Remove casualty from exposure ensuring one's own safety whilst doing so. Take off any contaminated clothing and shoes/boots immediately. Never give anything by mouth to an unconscious person.

#### Skin contact:

Wash with soap and water. Seek medical advice if irritation develops.

#### Eye contact:

Rinse with water for 10 minutes and seek medical advice if irritation persists.

#### Ingestion:

Rinse mouth with water and give water to drink. Do not induce vomiting. Seek medical advice.

#### Inhalation:

Remove to fresh air. Seek medical advice.

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

No specific concerns.

### 4.3 Indication of any immediate medical attention and special treatment needed

No specific concerns.

## 5. Fire-Fighting Measures

### 5.1 Extinguishing media

#### Suitable extinguishing media:

Carbon dioxide; dry chemical powder; polymer foam.

#### Unsuitable extinguishing media:

High volume water jet


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## Accessories – Detector Servicing

### Part No. DSF1 | DSF2

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting:

Irritating/toxic fumes may be released at elevated temperatures.

#### 5.3 Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus. Use personal protective equipment.

Further information:

Standard procedure for chemical fires. Use water spray to cool containers. Do not allow fire run-off to enter drains.

## 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Use personal protective equipment to deal with spillage.

#### 6.2 Environmental precautions

Contain the spillage using sufficient appropriate absorbent material. Do not discharge into drains or rivers, but if contamination to waterways has occurred, inform local authorities.

#### 6.3 Methods and materials for containment and cleaning up

Wipe up liquid spillage with absorbent material such as sand, earth, or vermiculite, and place in a labelled container for disposal in accordance with local/national regulations.

#### 6.4 References to other sections

See sections 8 and 13 for personal protection and disposal information.

## 7. Handling and Storage

#### 7.1 Precautions for safe handling

Do not breathe spray mist. Handle with care.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area, below 50°C. Protect from frost, heat and sunlight. Keep away from food, drink and animal feed.

#### 7.3 Specific end use(s):

No information available.


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Accessories – Detector Servicing

Part No. DSF1 | DSF2

## 8. Exposure Controls / Personal Protection

### 8.1 Control parameters

Chemical Name	8hr TWA	15min STEL	Reference
Liquefied petroleum gas	1750 mg/m <sup>3</sup> /1000ppm	2810 mg/m <sup>3</sup> /1250 ppm	EH40/2005

### 8.2 Exposure controls

#### Engineering measures:

Ensure there is sufficient ventilation of the area.

#### Personal protective equipment

#### Respiratory protection:

Unlikely to be necessary in normal circumstances; if vapour levels are high, wear a respirator conforming to EN 140 with type A filter or better.

#### Hand protection:

Gloves not normally required.

#### Eye protection:

Chemical splash goggles if eye contact is reasonably probable.

The selected goggles or glasses must satisfy the European standard EN 166.

#### Skin and body protection:

General workwear.

## 8. Exposure controls/personal protection (continued)

#### Hygiene measures:

Handle in accordance with good industrial hygiene and safety practices. Do not eat or drink whilst using the product. Wash hands before breaks and at the end of the work day. Wash contaminated clothing before re-use.

#### Environmental exposure controls:

Do not discharge into drains or rivers.



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## Accessories – Detector Servicing

### Part No. DSF1 | DSF2

## 9. Physical And Chemical Properties

### 9.1 Information on basic physical and chemical properties

State and colour	Aerosol emitting colourless spray.
Odour	Mild
Odour Threshold	No data available
Flammability	Extremely flammable
Flash point	<0°C
Lower explosion limit	0.8%
Upper explosion limit	9.0%
Explosive properties	Not explosive
Thermal decomposition	No data available
Auto-ignition temperature	>230°C
Oxidising properties	Non-oxidising
Solubility in water	Insoluble
Solubility in other solvents	Soluble in most organic solvents.
pH	Not applicable
Melting point/range	No data available
Boiling point/range	No data available
Relative density	0.97 g/cm <sup>3</sup> @ 20°C (of liquid material)
Vapour pressure	No data available
Vapour density	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity (kinematic)	Non-viscous (liquid material)
Evaporation rate	No data available

## 10. Stability and Reactivity

### 10.1 Reactivity

Generally non-reactive.

### 10.2 Chemical stability

Stable under normal conditions.



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## Accessories – Detector Servicing

### Part No. DSF1 | DSF2

#### 10.3 Possibility of hazardous reactions

None if stored and used as directed.

#### 10.4 Conditions to avoid

None known.

#### 10.5 Incompatible materials

None known.

#### 10.6 Hazardous decomposition products

Oxides of carbon.

### 11. Toxicological Information

#### 11.1 Information on toxicological effects

##### Acute toxicity

Chemical Name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
Liquefied petroleum gas	Not applicable	>20mg/l (Rat) 4h	Not applicable

##### Skin corrosion/irritation:

Not classed as a skin irritant.

##### Serious eye damage/eye irritation:

Not classed as an eye irritant.

##### Respiratory or skin sensitisation:

Not classed as a respiratory or skin sensitizer.

#### 11.1 Information on toxicological effects (continued)

##### Repeated dose toxicity:

Not expected to be a hazard.

##### Carcinogenicity:

Not carcinogenic.

##### Mutagenicity:

Not mutagenic.

##### Toxicity for reproduction:

Not expected to be a hazard.

##### Specific target organ toxicity (STOT):

No data available.

##### Further information:

The product as a whole may cause irritation of skin, eyes, nose and upper respiratory tract if exposed to high levels of spray mist.


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## Accessories – Detector Servicing

### Part No. DSF1 | DSF2

## 12. Ecological Information

### 12.1 Toxicity

Physical properties indicate that petroleum gases will rapidly volatilise from the aquatic environment and that acute and chronic effects would not be observed in practice.

### 12.2 Persistence and degradability

The liquid content (silicone oil) is not readily biodegradable. Liquefied petroleum gas is expected to be readily biodegradable. Oxidises rapidly by photochemical reactions in air.

### 12.3 Bioaccumulative potential

Not expected to bioaccumulate significantly.

### 12.4 Mobility in soil

The liquid content is insoluble in water and will float on the surface.

### 12.5 Results of PBT and vPvB assessment

Contains no PBT or vPvB substances.

### 12.6 Other adverse effects

None expected.

## 13. Disposal Considerations

### 13.1 Waste treatment methods

Disposal operations:

Dispose of in accordance with local and national regulations.

Contact licensed waste disposal company. Most aerosols can be recycled.

Do not pierce or burn or use a cutting torch on the empty aerosol container.

## 14. Disposal Considerations

General Information:

The UN number for all aerosols is 1950. Aerosols packed in fibreboard cartons up to 30 kg gross weight, or shrink/stretch wrapped onto trays up to 20 kg gross weight may be transported as Limited Quantities, and should display the following symbol on the pack:

### 14. Transport information (continued)

The following information relates to all other aerosols not transported as Limited Quantities:



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## Accessories – Detector Servicing

### Part No. DSF1 | DSF2

#### 14.1 UN number

#### 14.2 UN proper shipping name


#### 14.3 Transport hazard class(es)

#### 14.4 Packing Group

#### 14.5 Environment hazards

#### 14.6 Special precautions for user

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

ADR/RID/ADN; IMDG; ICAO	1950
AEROSOLS	
ADR/RID/ADN Class	2, 5F
ADR/RID/ADN Class	Class 2, Gases
ADR Label No.	2.1
IMDG Class	2
ICAO Class/Division	2
ICAO Subsidiary risk	2.1
Transport labels	
ADR/RID/ADN; IMDG; ICAO	Not applicable for aerosols
Marine Pollutant	Not applicable for aerosols
EMS	F-D,S-U
Solubility in other solvents	Not applicable for aerosols

## 15. Regulatory Information

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

#### UK Regulatory References:

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2001 No.2677) with amendments.

#### EU Directives:

Regulations (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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

#### Statutory Instruments:

The Chemicals (Hazard information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

#### Guidance Notes:

Health and Safety Executive Workplace Exposure Limits EH40.

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been performed on this product.





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Part No. DSF1 | DSF2

## 16. Other Information

Full text of H-statements referred to under sections 2 and 3

<b>H220</b>	Extremely flammable gas.
<b>H222</b>	Extremely flammable aerosol.
<b>H229</b>	Pressurised container: May burst if heated.
<b>H280</b>	Contains gas under pressure, may explode if heated.

Abbreviations and acronyms

<b>CAS</b>	Chemical Abstract Service (division of the American Chemical Society). (Section 3).
<b>STOT</b>	Single Target Organ Toxicity (Section 11).
<b>TWA</b>	Time-weighted average. (Section 8).
<b>STEL</b>	Short-term exposure limit. (Section 8).
<b>PBT</b>	Persistent, Bioaccumulative, Toxic. (Section 12).
<b>vPvB</b>	Very Persistent and very Bioaccumulative. (Section 12).

### Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.