



DetectaReach®

Accessories – Detector Servicing

Part No. DR1

Product Details

The DetectaReach DR1 hand-held smoke detector test set is an essential engineering tool for accurately and efficiently testing smoke alarms.

Designed with user convenience and reliability in mind, the DR1 test gas dispenser ensures that alarm systems are functioning correctly to maintain safety standards.



Key Features

- Reusable aerosol dispenser
- Ultra-low residue formula
- Accurate bursts of formula
- Built-in diffuser
- Easily attach and detach refill cans
- Friendly formula for alarm systems

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:

Signal Word	Danger
Pictogram(s)	
H-Statements	H222 – Extremely flammable aerosol. H229 – Pressurised container: May burst if heated.
P-Statements	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.



DetectaReach[®]

Accessories – Detector Servicing

Part No. DR1

3. Composition / Information on Ingredients

3.1 Mixtures

Hazardous components

Chemical Name	CAS No./ EC No./ Reg. No	Classification (1272/2008/EC)	Content
Isopropanol Alcohol	67-63-0 200-661-7 01-2119457558-25- XXXX	Classification (EC 1272/2008) Flam. Liq. 2 – H225 Eye Irrit. 2 – H319 STOT SE 3 – H336	1.0-5.0%
Liquefied Petroleum Gas (contains <0.1% 1,3-butadiene)	68476-85-7 270-704-2	Flam.Gas 1; H220 Gas under pressure; H280	75-100%

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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DetectaReach[®]

Accessories – Detector Servicing

Part No. DR1

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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DetectaReach[®]

Accessories – Detector Servicing

Part No. DR1

8. Exposure Controls / Personal Protection

8.1 Control parameters

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

Chemical Name	8hr TWA	15min STEL	Reference
Isopropanol Alcohol	400 ppm 999 mg/m ³	500 ppm 1250 mg/m ³	-

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.



DetectaReach®

Accessories – Detector Servicing

Part No. DR1

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 ³ @ 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. DR1

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

Chemical Name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
Isopropanol Alcohol	4700–5800 mg/kg (oral rat)	19000 ppm/8hr (inh-rat)	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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DetectaReach[®]

Accessories – Detector Servicing

Part No. DR1

12. Ecological Information

Product:

The product itself has not been tested.

Toxicity:

The ingredients in this formula have been reviewed and no adverse impact to the environment is to be expected when used according to label directions.

12.1 Toxicity

Toxicity to fish				
Component	End Point	Species	Value	Value
Isopropanol alcohol	LC50	Pimephales promelas (Fat-head Minnow)	9640mg/l	96 hours
Liquefied petroleum gas	LC50	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.		
Toxicity to aquatic invertebrates				
Component	End Point	Species	Value	Value
Isopropanol alcohol	LC50	Daphnia magna	>10000mg/l	24 hours
Liquefied petroleum gas	LC50	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.		
Toxicity to aquatic plants				
Component	End Point	Species	Value	Value
Isopropanol alcohol	EC50	Selenastrum capricornutum	1800mg/l	7 days
Liquefied petroleum gas	No information available.	No information available.	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.



DetectaReach[®]

Accessories – Detector Servicing

Part No. DR1

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:



14.1 UN number

14.2 UN proper shipping name

14.3 Transport hazard class(es)

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

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



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DetectaReach®

Accessories – Detector Servicing

Part No. DR1

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.

16. Other Information

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

H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure, may explode if heated.
H336	May cause drowsiness or dizziness.

Abbreviations and acronyms

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