



SAFETY DATA SHEET DETECTAGAS

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name DG2 DG1

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Testing carbon monoxide detectors

1.3. Details of the supplier of the safety data sheet

Manufacturer GAS SAFE EUROPE LIMITED
CHOWLEY ONE
CHOWLEY LANE
TATTENHALL
CHESTER
CH3 9GA
+44 (0) 1352 860600
+enquiries@gassafeeurope.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 7912503202 (24 hrs).

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

2.2. Label elements

Signal word Warning
Hazard statements 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.
P251 Do not pierce or burn, even after use.
P271 Use only outdoors or in a well-ventilated area.
P261 Avoid breathing gas.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTRE/doctor if you feel unwell.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P102 Keep out of reach of children.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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| CARBON DIOXIDE | | 60-100% |
| CAS number: 124-38-9 | EC number: 204-696-9 | |
| Classification Press. Gas (Liq.) - H280 | Classification (67/548/EEC or 1999/45/EC) - | |
| CARBON MONOXIDE | | <1% |
| CAS number: 630-08-0 | EC number: 211-128-3 | REACH registration number: 01-2119480165-39 |
| Classification Flam. Gas 1 - H220 Press. Gas Acute Tox. 3 - H331 Repr. 1A - H360D STOT RE 1 - H372 | Classification (67/548/EEC or 1999/45/EC) F+;R12 Repr. Cat. 1;R61 T;R23,R48/23 | |

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

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| Inhalation | Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention. If breathing stops, provide artificial respiration. |
| Ingestion | Not relevant. |
| Eye contact | Not relevant. |

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

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| Inhalation | High concentrations may cause asphyxiation, loss of mobility and consciousness. Victim may be unaware of asphyxiation. |
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4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1. Extinguishing media

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| Suitable extinguishing media | Water spray, foam, dry powder or carbon dioxide. Cool aerosol containers exposed to heat with water spray and remove container, if no risk is involved. |
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5.2. Special hazards arising from the substance or mixture

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| Specific hazards | Pressurised container: may burst if heated Bursting aerosol containers may be propelled from a fire at high speed. |
| Hazardous combustion products | Fire creates: Carbon dioxide (CO ₂). Carbon monoxide (CO). |

5.3. Advice for firefighters

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| Protective actions during firefighting | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. |
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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Personal precautions Ensure suitable respiratory protection is worn during removal of spillages in confined areas.
Provide adequate ventilation.

6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Wear self contained breathing apparatus when entering the area. Ventilate area until the atmosphere is proved to be safe.

6.4. Reference to other sections

Reference to other sections See Section 11 for additional information on health hazards.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Do not handle broken packages without protective equipment. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store at moderate temperatures in dry, well ventilated area. Keep away from heat, sparks and open flame.

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

CARBON DIOXIDE

Long-term exposure limit (8-hour TWA): OES 5000 ppm

Short-term exposure limit (15-minute): OES 15000 ppm

CARBON MONOXIDE

Long-term exposure limit (8-hour TWA): WEL 30 ppm 35 mg/m³

Short-term exposure limit (15-minute): WEL 200 ppm 232 mg/m³

WEL = Workplace Exposure Limit

8.2. Exposure controls

Respiratory protection 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 Colourless.
Odour Odourless.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

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10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not determined.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon monoxide (CO).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - inhalation

ATE inhalation (gases ppm) 350,000.0

ATE inhalation (vapours mg/l) 1,500.0

ATE inhalation (dusts/mists mg/l) 250.0

Inhalation Asphyxiation, loss of mobility/conciousness. Patient may not be aware of asphyxiation.

SECTION 12: Ecological Information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish Not relevant.

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Mobility The product contains volatile substances which may spread in the atmosphere.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

Special Provisions note

14.1. UN number :

UN No. (ADR/RID) 1950

UN No. (IMDG) 1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID) AEROSOLS

Proper shipping name (IMDG) AEROSOLS

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (ADN) AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class 2

IMDG class 2

14.4. Packing group

ADR/RID packing group 5A

IMDG packing group 5A

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78
and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations Control of Substances Hazardous to Health Regulations 2002 (as amended).

EU legislation Dangerous Preparations Directive 1999/45/EC.

Guidance Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

SECTION 16: Other information

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| Abbreviations and acronyms used in the safety data sheet | ATE: Acute Toxicity Estimate. |
| | ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. |
| | CAS: Chemical Abstracts Service. |
| | PBT: Persistent, Bioaccumulative and Toxic substance. |
| | vPvB: Very Persistent and Very Bioaccumulative. |
| | IATA: International Air Transport Association. |
| | IMDG: International Maritime Dangerous Goods. |
| Revision date | 08/01/2018 |
| Revision | 7.0 |
| SDS number | 27534 |
| Risk phrases in full | Not classified. |
| | R12 Extremely flammable. |
| | R23 Toxic by inhalation. |
| | R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation. |
| | R61 May cause harm to the unborn child. |
| Hazard statements in full | H220 Extremely flammable gas. |
| | H229 Pressurised container: may burst if heated. |
| | H280 Contains gas under pressure; may explode if heated. |
| | H331 Toxic if inhaled. |
| | H360D May damage the unborn child. |
| | H372 Causes damage to organs through prolonged or repeated exposure. |