



SAFETY DATA SHEET

CO2 FIRE EXTINGUISHER

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: CO2 fire extinguisher
Sizes: 2KG, 5KG, 10KG, 25KG, 45KG
Registration Number: Data not available

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

Application of the substance/ mixture: Extinguishment.

1.3 Details of the supplier of the safety data sheet

Company name: Vigil Products, Unit 11C, Claremont Way, Lakesview International Business Park, Canterbury, Kent, CT3 4BF, United Kingdom

Email address: info@VigilProducts.com

Telephone number: 0800 321 3145

1.4 Emergency number:

General in EU
UK – 999 (Available 24 hours a day)
EU – 112 (Available 24 hours a day)

Section 2. Hazards identification of contents

2.1 Classification of the substance or mixture

Classification according to regulation (EC) 1272/2008:



GSH04 Gas Cylinder

Press Gas H280 Contains gas under pressure; may explode if heated

Classification System:

The classification is according to the latest edition of Regulation 1272/2008, and extended by company and literature data.

2.2 Label element

Labeling according to Regulation (EC) No 1272/2008: The product is labeled according to CLP regulation.

Hazard pictograms:



GSH04

Signal word: Warning



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Hazard statements:

H280 Contains gas under pressure; may explode if heated.

Precautionary statement:

P410 + P403 Protect from sunlight. Store in a well-ventilated place.

2.3 Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable


vPvB: Not applicable

Section 3. Composition/information on ingredients**3.1 Chemical characterization:** Substance**Description:**

Mixture of the substances listed below with non-hazardous additions. Refer to section 16 for listed risk phrases.

Component

CAS No.: 124-38-9
EC No.: 204-696-9

Carbon Dioxide
 Press.Gas, H280

100%

Section 4. First Aid Measures**4.1 Description of first aid measures:**

General Advice: Keep away from hot surface and heat source.
After inhalation: Supply with fresh air. Call a POISON CENTRE/doctor if you feel unwell.
After skin contact: Wash skin with water. If skin irritation occurs: Get medical attention.
After eye contact: Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
After swallowing: Rinse mouth with water. Consult a physician if you feel unwell.

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

There are not known any symptoms or effects.

4.3 Indication of any immediate medical attention and special treatment needed: No known delayed effects.



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Section 5. Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing agents: The product is not combustible. Use a dry powder, foam or CO2 extinguisher to extinguish surrounding fire.

5.2 Special hazards arising from the substance or mixture: Exposure to fire may cause containers to rupture/ explode.

5.3 Advice for firefighters

Protective equipment: Wear self-contained breathing apparatus for firefighting if necessary.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Cut off leakage source if safe to do it; Ensure adequate ventilation; Evacuate area; Prevent contact with skin and eyes.

6.2 Environmental precautions:

Do not allow the product to enter sewers/surface or ground water; Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Ensure good ventilation; Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections:

See section 7 for information on safe handling; See section 8 for information on personal protection equipment; See section 13 for disposal information.

Section 7. Handling and storage

7.1 Precautions for safe handling:

Handle according to the instruction; Only experienced and properly instructed persons should handle gases under pressure; Consider pressure relief device(s) in gas installations; Ensure the complete gas system was checked for leaks before use. Ensure adequate ventilation; Prevent contact with skin and eyes.

Information about fire and explosion protection: Keep away from heat source.





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7.2 Conditions for safe storage, including any non-compatibility

Requirements to be met by storerooms and receptacles: Store in a cool, dry and well-ventilated place.

Information about storage in one common storage facility: Keep away from hot surface and high temperature condition.

Further information about storage conditions: Store locked up; Do not expose under the sun for a long time.

7.3 Specific end use(s): Extinguishment.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Country	Limit value – Eight Hours	Limit value – Short Term
Austria	5000ppm; 9000mg/m ³	10,000ppm; 18,000mg/m ³
Belgium	5000ppm; 9131mg/m ³	
Denmark	5000ppm; 9000mg/m ³	10,000ppm; 18,000mg/m ³
European Union	5000ppm; 9000mg/m ³	-
Finland	5000ppm; 9000mg/m ³	-
Germany (AGS)	5000ppm; 9000mg/m ³	-
Germany (DFG)	5000ppm; 9000mg/m ³	10,000ppm; 18,200mg/m ³
Hungary	9000mg/m ³	10,000ppm; 18,200mg/m ³
Italy	5000ppm; 9000mg/m ³	-
Ireland	5000ppm; 9000mg/m ³	-
Latvia	5000ppm; 9000mg/m ³	15,000ppm; 27,000mg/m ³
Poland	9000mg/m ³	-
Spain	5000ppm; 9150mg/m ³	-
Sweden	5000ppm; 9000mg/m ³	10,000ppm; 18,000mg/m ³
United Kingdom	5000ppm; 9150mg/m ³	15,000ppm; 27,400mg/m ³

DNELs: Data not available.

PNECs: Data not available.

Additional Information: The lists valid during the marking were used as basis.





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8.1 Exposure Controls

Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.

Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice; Wash hands and face before breaks and at the end of work; See section 7 for information about design of technical facilities.

Personal Protective equipment

Respiration protection: Gas filters may be used if all surrounding conditions, e.g. type and concentration of the contaminant(s) and duration of use are known.

Protection of Hands



Protective gloves

Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness > 0.11mm; breakthrough times up to 480 minutes).

Eye Protection:



Safety Glasses

Protective goggles with side-shields.

Environmental exposure controls:

Control measures must be made in accordance with Community environmental protection legislation.





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Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties	
Appearance	
Form	Pressed Gas
Colour	Colourless
Odour	Odourless
Odour threshold	Not applicable
pH-value	Not determined
Change in condition	
Melting point/melting range	-78.5°C
Boiling point and boiling range	-56.5°C
Freezing point	Not determined
Flash point	Not applicable
Flammability(solid, gas)	Not flammable gas
Decomposition temperature	Not determined
Self-ignition	Product is not self-igniting.
Danger of explosion	Product does not present explosive hazard.
Explosion limits	
Lower:	Not explosive
Upper:	Not explosive
Oxidizing properties	No oxidation
Vapour pressure	57.3 Pa at 20°C
Density	Not determined
Relative density	1.52 (air=1)
Vapour density	Not determined
Evaporation rate	Not determined
Solubility in/Miscibility with	
Water	2000mg/l at 20°C
Partition Coefficient (n-octanol/water)	Not determined
Viscosity	
Dynamic	Not determined
Kinematic	Not determined
9.2 Other information	Data not available





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Section 10. Stability and reactivity

10.1	Reactivity	No decomposition if used according to specification.
10.2	Chemical stability	Stable under recommended storage conditions.
10.3	Possibility of Hazardous reactions	No further relevant information available.
10.4	Conditions to avoid	High temperature.
10.5	Incompatible materials	No special incompatible material.
10.6	Hazardous decomposition products	No known hazardous decomposition products.

Section 11. Toxicology Information

11.1 Information on toxicological effects

Acute toxicity: Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification: No animal test has been done for this product or the components.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitization: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration Hazard: Based on available data, the classification criteria are not met.





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Section 12. Ecological Information

12.1 Toxicology

Aquatic toxicity: Not hazardous to aquatic environment.

12.2 Persistence and degradability: Inorganic substance.

12.3 Bio-accumulative potential: Low bio-accumulation.

12.4 Mobility in soil: Data not available

12.5 Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

12.6 Other adverse effects: No further relevant information available.

12.7 Additional ecological information

General notes: Water hazard class 1 (German Regulation) (self-assessment): Slightly hazardous for water.
Do not allow large quantities of the product to reach ground water, water course or sewage system.

Section 13. Disposal Consideration

13.1 Waste treatment methods

Recommendation: Must not be disposed together with household waste.

13.2 Un-cleaned packaging


Recommendation: Dispose of contents/container in according to the local regulation.





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Section 14. Transport Information

14.1	UN-Number ADR, RID, AND, IMDG, IATA	UN 1013
14.2	UN proper shipping name ADR, RID, AND, IMDG, IATA	Carbon Dioxide
14.3	Transport hazard class (es) ADR, RID, AND, IMDG, IATA Class Label	 2 2.2 Non-flammable, non-toxic gases
14.4	Packing group ADR, RID, AND, IMDG, IATA	Void
14.5	Marine pollution	No
14.6	Special precautions for user Danger Code (Kemler) EMS number	Warning: Gases Void F-C, S-V
14.7	UN "Model Regulation"	UN 1013, Carbon Dioxide, 2.2

Section 15. Regulatory Information

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

- **MAK (German Maximum Workplace Concentration):** Not listed.
- **Directive 2012/18/EU**
- **Named dangerous substances-ANNEX I:** Not listed.
- **National regulations**
- **Water hazard class:** Water hazard class 1 (German Regulation) (self-assessment): Slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
- **SVHC Candidate list of REACH Regulation Annex XIV Authorization:** Not listed.
- **REACH Regulation Annex XVII Restriction:** Not listed.
- **REACH Regulation Annex XIV Authorization List:** Not listed.

15.2 Chemical safety assessment: A Chemical Safe Assessment has not been carried out.



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Section 16. Other Information

Relevant phrases:

H319 Causes serious eye irritation

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

DISCLAIMER OF LIABILITY:

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correct use. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Abbreviations and acronyms:

ADR: Accord européen sur le transport 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.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bio accumulative and Toxic

SVHC: Substance of Very High Concern

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

End of Safety Data Sheet

