

# RENTOKIL CO2 CONTROLLED ATMOSPHERE



## Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.  
SDS Reference Number: 473  
Issue date: 19/09/2025 Version: 1.0

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

#### 1.1. Product identifier

Product form : Substance  
Trade name : RENTOKIL CO2 CONTROLLED ATMOSPHERE  
EC-No. : 204-696-9  
CAS-No. : 124-38-9  
Type of product : Biocidal products (e.g. Disinfectants, pest control)  
Authorisation number : GB-2016-0955  
Formula : CO2  
Product group : Product

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

##### 1.2.1. Relevant identified uses

Main use category : Trained professional  
Industrial/Professional use spec : For professional use only  
Use of the substance/mixture : For professional use as an insecticide fumigant for the control of stored product pests, wood-destroying insects, textile pests and other arthropods.  
Use of the substance/mixture : Insecticide

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Rentokil Initial Supplies  
Liverpool  
L33 7SR  
UK

Product advice line: +44 (0)151 548 5050  
Email: products@rentokil.com

#### 1.4. Emergency telephone number

Emergency number : +44 (0)1342 833022 (24/7)  
Call NHS 111 or a doctor (For UK/NI only)

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to GB CLP (SI 2019:720 as amended)

Gases under pressure : Compressed gas H280  
Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

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## Safety Data Sheet

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### 2.2. Label elements

#### Labelling according to GB CLP (SI 2019:720 as amended)

Hazard pictograms (GHS UK) :



GHS04

Signal word (GHS UK) :

Warning

Hazard statements (GHS UK) :

H280 - Contains gas under pressure; may explode if heated.

Precautionary statements (GHS UK) :

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

P103 - Read carefully and follow all instructions.

P284 - In case of inadequate ventilation wear respiratory protection.

P308+P311 - IF exposed or concerned: Call a POISON CENTER or doctor.

P501 - Dispose of container to hazardous waste facilities in accordance with national regulations.

### 2.3. Other hazards

This substance does not meet the PBT criteria of UK REACH regulation, annex XIII

This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII

Component	
Substance(s) not meeting the PBT criteria of UK REACH regulation, in accordance with Annex XIII	CARBON DIOXIDE (124-38-9)
Substance(s) not meeting the vPvB criteria of UK REACH regulation, in accordance with Annex XIII	CARBON DIOXIDE (124-38-9)

The substance is not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP

Component	
Substance(s) not considered as endocrine disrupting. They are not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, nor identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP	CARBON DIOXIDE(124-38-9)

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name : RENTOKIL CO2 CONTROLLED ATMOSPHERE  
CAS-No. : 124-38-9  
EC-No. : 204-696-9

Name	Product identifier	%	Classification according to GB CLP (SI 2019:720 as amended)
CARBON DIOXIDE	CAS-No.: 124-38-9 EC-No.: 204-696-9	99.9	Press. Gas (Liq.), H280

Full text of H- and EUH-statements: see section 16

### 3.2. Mixtures

Not applicable

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: This route of exposure is not anticipated.
First-aid measures after eye contact	: This route of exposure is not anticipated.
First-aid measures after ingestion	: This route of exposure is not anticipated.

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

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
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#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

Explosion hazard	: Explosion risk in case of fire.
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#### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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##### 6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

#### 6.2. Environmental precautions

None necessary.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Store away from other materials.
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#### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

# RENTOKIL CO2 CONTROLLED ATMOSPHERE

## Safety Data Sheet

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

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

Storage conditions : Keep container closed when not in use.  
Incompatible products : Strong bases.  
Incompatible materials : Sources of ignition. Direct sunlight.  
Storage area : Store in a well-ventilated place.

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

Insecticide.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

RENTOKIL CO2 CONTROLLED ATMOSPHERE (124-38-9)	
United Kingdom - Occupational Exposure Limits	
Local name	Carbon dioxide
WEL TWA (OEL TWA)	9150 mg/m <sup>3</sup>
	5000 ppm
WEL STEL (OEL STEL)	27400 mg/m <sup>3</sup>
	15000 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
CARBON DIOXIDE (124-38-9)	
United Kingdom - Occupational Exposure Limits	
Local name	Carbon dioxide
WEL TWA (OEL TWA)	9150 mg/m <sup>3</sup>
	5000 ppm
WEL STEL (OEL STEL)	27400 mg/m <sup>3</sup>
	15000 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

##### 8.1.2. Recommended monitoring procedures

No additional information available

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

No additional information available

##### 8.1.5. Control banding

No additional information available

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### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No additional information available

#### 8.2.2. Personal protection equipment

##### Personal protective equipment:

Avoid all unnecessary exposure.

##### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Chemical goggles or safety glasses

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

None necessary during normal handling and use.

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

##### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Gas
Appearance	: Colourless gas.
Colour	: Colourless.
Odour	: Odourless.
Odour threshold	: Not available
pH	: Not applicable
Melting point	: Not applicable
Freezing point	: Not applicable
Boiling point	: -78.5 °C
Flash point	: Not applicable
Explosive limits	: Not available
Vapour pressure	: 57.3 bar
Vapour pressure at 50°C	: Not available
Relative vapour density at 20°C	: Not available
Relative density	: Not applicable
Density	: 1.8 mg/cm <sup>3</sup>
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Viscosity, kinematic	: Not applicable
Explosive properties	: Not available

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### 9.2. Other information

Particle characteristics : Not applicable

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

This product is stable under normal conditions of handling and use.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

No additional information available.

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not applicable

### Other information

#### Endocrine disrupting properties

No additional information available

#### Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

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According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

Hazardous to the aquatic environment, long-term (chronic) : Not classified

### 12.2. Persistence and degradability

#### RENTOKIL CO2 CONTROLLED ATMOSPHERE (124-38-9)

Persistence and degradability	Not established.
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#### CARBON DIOXIDE (124-38-9)

Persistence and degradability	Rapidly degradable
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### 12.3. Bioaccumulative potential

#### RENTOKIL CO2 CONTROLLED ATMOSPHERE (124-38-9)

Bioaccumulative potential	Not established.
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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### RENTOKIL CO2 CONTROLLED ATMOSPHERE (124-38-9)

This substance does not meet the PBT criteria of UK REACH regulation, annex XIII

This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII

#### Component

CARBON DIOXIDE (124-38-9)	This substance does not meet the PBT criteria of UK REACH regulation, annex XIII This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII
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### 12.6. Other adverse effects

#### RENTOKIL CO2 CONTROLLED ATMOSPHERE (124-38-9)

Other information	Avoid release to the environment.
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Additional information : Empty cylinders are returned to the suppliers.  
Ecological waste information : Avoid release to the environment.

## SECTION 14: Transport information






In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
UN 1013	UN 1013	UN 1013	UN 1013	UN 1013
<b>14.2. UN proper shipping name</b>				
CARBON DIOXIDE	CARBON DIOXIDE	Carbon dioxide	CARBON DIOXIDE	CARBON DIOXIDE

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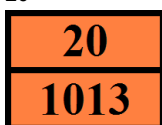
According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

ADR	IMDG	IATA	ADN	RID
<b>Transport document description</b>				
UN 1013 CARBON DIOXIDE, 2.2, (C/E)	UN 1013 CARBON DIOXIDE, 2.2	UN 1013 Carbon dioxide, 2.2	UN 1013 CARBON DIOXIDE, 2.2	UN 1013 CARBON DIOXIDE, 2.2
<b>14.3. Transport hazard class(es)</b>				
2.2	2.2	2.2	2.2	2.2
				
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: False	Dangerous for the environment: False Marine pollutant: No	Dangerous for the environment: False	Dangerous for the environment: False	Dangerous for the environment: False
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: 2A
Special provisions (ADR)	: 584, 653, 662
Limited quantities (ADR)	: 120ml
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P200
Mixed packing provisions (ADR)	: MP9
Portable tank and bulk container instructions (ADR)	: (M)
Tank code (ADR)	: PxBN(M)
Tank special provisions (ADR)	: TA4, TT9
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV9, CV10, CV36
Hazard identification number (Kemler No.)	: 20
Orange plates	:



Tunnel restriction code (ADR)	: C/E
EAC code	: 2T

#### Transport by sea

Limited quantities (IMDG)	: 120 ml
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P200
EmS-No. (Fire)	: F-C
EmS-No. (Spillage)	: S-V
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Liquefied, non-flammable gas. Heavier than air (1.5). Cannot remain in the liquid state above 31°C.

#### Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden

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PCA packing instructions (IATA)	: 200
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 200
CAO max net quantity (IATA)	: 150kg
ERG code (IATA)	: 2L

### Inland waterway transport

Classification code (ADN)	: 2A
Special provisions (ADN)	: 584, 653
Limited quantities (ADN)	: 120 ml
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0

### Rail transport

Classification code (RID)	: 2A
Special provisions (RID)	: 584, 653
Limited quantities (RID)	: 120ml
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P200
Mixed packing provisions (RID)	: MP9
Portable tank and bulk container instructions (RID)	: (M)
Tank codes for RID tanks (RID)	: PxBN(M)
Special provisions for RID tanks (RID)	: TA4, TT9, TM6
Transport category (RID)	: 3
Special provisions for carriage - Loading, unloading and handling (RID)	: CW9, CW10, CW36
Colis express (express parcels) (RID)	: CE3
Hazard identification number (RID)	: 20

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. National regulations

##### UK REACH Annex XVII (Restriction List)

This substance is not listed on UK REACH Annex XVII (Restriction List)

##### UK REACH Annex XIV (Authorisation List)

This substance is not listed on UK REACH Annex XIV (Authorisation List)

##### UK REACH Candidate List (SVHC)

This substance is not listed on the UK REACH Candidate List (SVHC)

##### Biocide Regulation (528/2012)

Contains substance(s) listed on the Biocidal Products list (Regulation EU 528/2012 concerning the making available on the market and use of biocidal products)

Type of product (Biocide)	: 18 - Insecticides, acaricides and products to control other arthropods
Authorisation number	: GB-2016-0955

##### GB PIC Regulation (Prior Informed Consent)

This substance is not listed on the GB PIC List

##### POP Regulation (Persistent Organic Pollutants)

This substance is not listed on the GB POP List

##### Ozone Regulation (S.I. No. 168 of 2015)

This substance is not listed on the GB Ozone Depletion List

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## Safety Data Sheet

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### Control of Poisons and Explosives Precursors Act

This substance is not listed as a reportable poison on the Control of Poisons and Explosives Precursors Regulations  
This substance is not listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations  
This substance is not listed as a reportable explosive precursor on the Control of Poisons and Explosives Precursors Regulations  
This substance is not listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations

### Drug Precursors Regulation (EC 273/2004)

This substance is not listed on the GB Drug Precursors List

### 15.1.2. Other Information

## 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

### Abbreviations and acronyms:

REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
LD50	Median lethal dose
EC50	Median effective concentration
PBT	Persistent Bioaccumulative Toxic
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

Data sources	: 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: The hazards associated with the mixture were calculated following the criteria for classification for each hazard class or differentiation in Parts 2 to 5 of ANNEX I REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL.

### Full text of H- and EUH-statements:

Press. Gas (Comp.)	Gases under pressure : Compressed gas
H280	Contains gas under pressure; may explode if heated.

RI - SDS UK 2025.05.08

### Before using any product, ensure that you read and understand its label.

The information contained in this safety data sheet is, to the best of our knowledge and belief, accurate and reliable at the time of publication. The information relates only to the specific material designated in this safety data sheet and may not be valid for such material if it is used in combination with any other material(s) or any other use than that specified herein. Neither Rentokil Initial plc nor any of its subsidiaries accepts any liability for the use of this product for any other purpose than that described in this safety data sheet. This does not affect your statutory rights. It is the user's responsibility to satisfy him/herself as to the suitability in completeness of such information for his/her own particular use.

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.