

RENTOKIL CO2 CONTROLLED ATMOSPHERE

Rentokil

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 30/07/2018

Version: 9.0

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 : Biocide
Registration No : UK-2016-0955 IE/BPA 70351
Product group : Product
REACH authorisation exemptions : Exempted from REACH registration

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

For UK:

Rentokil Initial Supplies
Liverpool
L33 7SR
UK

For Ireland:

Rentokil Initial,
Hazel House,
Millennium Park,
Naas, Co Kildare,
Ireland

Tel: +353 (0)45 850 799

1.4. Emergency telephone number

Emergency number : +44 (0) 1342 833022

| Country | Organisation/Company | Address | Emergency number | Comment |
|----------------|---|--|--|---------|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| United Kingdom | National Poisons Information Service (Birmingham Centre) City Hospital | Dudley Road B18 7QH Birmingham | 0344 892 0111 | |

RENTOKIL CO2 CONTROLLED ATMOSPHERE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Gases under pressure : Compressed gas H280

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS04

Signal word (CLP) :

Warning

Hazard statements (CLP) :

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

Precautionary statements (CLP) :

P103 - Read label before use.
P284 - Wear respiratory protection.
P309+P311 - IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P403 - Store in a well-ventilated place.
P410 - Protect from sunlight.
P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards

No additional information available

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 | % |
|----------------|--|------|
| Carbon Dioxide | (CAS-No.) 124-38-9 (EC-No.) 204-696-9 | 99.9 |

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

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.

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.

RENTOKIL CO2 CONTROLLED ATMOSPHERE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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.

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.

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.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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

| RENTOKIL CO2 CONTROLLED ATMOSPHERE (124-38-9) | | |
|---|--|-------------------------|
| EU | Local name | Carbon dioxide |
| EU | IOELV TWA (mg/m ³) | 9000 mg/m ³ |
| EU | IOELV TWA (ppm) | 5000 ppm |
| Ireland | Local name | Carbon dioxide |
| Ireland | OEL (8 hours ref) (mg/m ³) | 9000 mg/m ³ |
| Ireland | OEL (8 hours ref) (ppm) | 5000 ppm |
| Ireland | OEL (15 min ref) (mg/m ³) | 27000 mg/m ³ |
| Ireland | OEL (15 min ref) (ppm) | 15000 ppm |
| Ireland | Notes (IE) | IOELV |
| United Kingdom | Local name | Carbon dioxide |
| United Kingdom | WEL TWA (mg/m ³) | 9150 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 5000 ppm |
| United Kingdom | WEL STEL (mg/m ³) | 27400 mg/m ³ |
| United Kingdom | WEL STEL (ppm) | 15000 ppm |
| Carbon Dioxide (124-38-9) | | |
| EU | Local name | Carbon dioxide |
| EU | IOELV TWA (mg/m ³) | 9000 mg/m ³ |
| EU | IOELV TWA (ppm) | 5000 ppm |

RENTOKIL CO2 CONTROLLED ATMOSPHERE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Carbon Dioxide (124-38-9) | | |
|---------------------------|--|-------------------------|
| Ireland | Local name | Carbon dioxide |
| Ireland | OEL (8 hours ref) (mg/m ³) | 9000 mg/m ³ |
| Ireland | OEL (8 hours ref) (ppm) | 5000 ppm |
| Ireland | OEL (15 min ref) (mg/m ³) | 27000 mg/m ³ |
| Ireland | OEL (15 min ref) (ppm) | 15000 ppm |
| Ireland | Notes (IE) | IOELV |
| United Kingdom | Local name | Carbon dioxide |
| United Kingdom | WEL TWA (mg/m ³) | 9150 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 5000 ppm |
| United Kingdom | WEL STEL (mg/m ³) | 27400 mg/m ³ |
| United Kingdom | WEL STEL (ppm) | 15000 ppm |

8.2. Exposure controls

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

None necessary during normal handling and use.

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

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 | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : -78.5 °C |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Non flammable. |
| Vapour pressure | : 57.3 bar |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : 1.8 mg/cm ³ |
| Solubility | : No data available |
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |

RENTOKIL CO2 CONTROLLED ATMOSPHERE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Oxidising properties : No data available

Explosive limits : No data available

9.2. Other information

No additional information available

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 : This route of exposure is not anticipated.

Skin corrosion/irritation : Not classified

Additional information : Based on available data, the classification criteria are not met

Serious eye damage/irritation : This route of exposure is not anticipated.

Additional information : Based on available data, the classification criteria are not met

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

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

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

RENTOKIL CO2 CONTROLLED ATMOSPHERE (124-38-9)

| | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

12.3. Bioaccumulative potential

RENTOKIL CO2 CONTROLLED ATMOSPHERE (124-38-9)

| | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

RENTOKIL CO2 CONTROLLED ATMOSPHERE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment.

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.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR) : 1013

UN-No. (IMDG) : 1013

UN-No. (IATA) : 1013

UN-No. (ADN) : 1013

UN-No. (RID) : 1013

14.2. UN proper shipping name

Proper Shipping Name (ADR) : CARBON DIOXIDE

Proper Shipping Name (IMDG) : CARBON DIOXIDE

Proper Shipping Name (IATA) : Carbon dioxide

Proper Shipping Name (ADN) : CARBON DIOXIDE

Proper Shipping Name (RID) : CARBON DIOXIDE

Transport document description (ADR) : UN 1013 CARBON DIOXIDE, 2.2, (C/E)

Transport document description (IMDG) : UN 1013 CARBON DIOXIDE, 2.2

Transport document description (IATA) : UN 1013 Carbon dioxide, 2.2

Transport document description (ADN) : UN 1013 CARBON DIOXIDE, 2.2

Transport document description (RID) : UN 1013 CARBON DIOXIDE, 2.2

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 2.2

Danger labels (ADR) : 2.2



IMDG

Transport hazard class(es) (IMDG) : 2.2

Danger labels (IMDG) : 2.2



IATA

Transport hazard class(es) (IATA) : 2.2

Hazard labels (IATA) : 2.2

RENTOKIL CO2 CONTROLLED ATMOSPHERE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830



ADN

Transport hazard class(es) (ADN) : 2.2

Danger labels (ADN) : 2.2



RID

Transport hazard class(es) (RID) : 2.2

Danger labels (RID) : 2.2



14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : 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

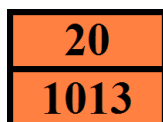
Vehicle for tank carriage : AT

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

RENTOKIL CO2 CONTROLLED ATMOSPHERE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

- 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 |
| 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. EU-Regulations

No REACH Annex XVII restrictions

RENTOKIL CO2 CONTROLLED ATMOSPHERE is not on the REACH Candidate List

RENTOKIL CO2 CONTROLLED ATMOSPHERE is not on the REACH Annex XIV List

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

RENTOKIL CO2 CONTROLLED ATMOSPHERE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 16: Other information

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 : None.

Full text of H- and EUH-statements:

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

RI - SDS EU (REACH Annex II) CLP

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.

Copyright © (2018) Rentokil Initial plc, Rentokil Initial Power Centre, Unit A1 & A2 Link 10, Napier Way, Crawley, RH10 9RA. United Kingdom.

Telephone: +44 (0) 1342 833022 Fax: +44 (0) 1403 214101