

# RADAR (8g)

## Safety Data Sheet

# Rentokil

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SDS Reference Number: 1631

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

### 1.1. Product identifier

Product form	: Substance
Trade name	: RADAR (8g)
UFI	: AVXV-90YM-X00J-VJGH
CAS-No.	: 124-38-9
Product code	: 304852 - 8g (EU)
Type of product	: Biocidal products (e.g. Disinfectants, pest control)
Authorisation number	: EU-0021482-0000
Formula (Override)	: CO2
Product group	: Product

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

#### Relevant identified uses

Main use category	: Trained professional
Industrial/Professional use spec	: For professional users only
Use of the substance/mixture	: Product for professional use in the dispatch of mice via exposure to carbon dioxide. Carbon dioxide is released from a single-use gas canister into a trapping device when the device is triggered by the entry of a mouse. Carbon dioxide is a colourless, odourless gas.
Use of the substance/mixture	: Rodenticide
Function or use category	: Pesticides, non-agricultural (Biocides)

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

#### Supplier

Rentokil Pest Control  
Units 5-7  
Abbey Enterprise Park  
Mill Road  
Newtownabbey  
Co Antrim  
BT36 7BA

Tel: +44 (0)28 9086 5006

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)
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## 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- and EUH-statements: see section 16

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

No additional information available

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### 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.

### 2.3. Other hazards

vPvB: not relevant – no registration required

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name : RADAR (8G)

CAS-No. : 124-38-9

Name	Product identifier	%
CARBON DIOXIDE (Active substance (Biocide))	CAS-No.: 124-38-9 EC-No.: 204-696-9	100

## 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. Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
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.
First-aid measures for first aider	: First aid workers will be equipped with suitable personal protective equipment.

### 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.
Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: None under normal conditions. Contact with the liquefied gas may cause frostbite.
Symptoms/effects after eye contact	: None under normal conditions. Contact with the liquefied gas may cause severe ocular lesions.
Symptoms/effects after ingestion	: None under normal conditions.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam.

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Unsuitable extinguishing media : Do not use a heavy water stream.

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

No additional information available

### 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

#### For non-emergency personnel

Protective equipment : Wear suitable protective clothing.  
Emergency procedures : Evacuate unnecessary personnel.

#### For emergency responders

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

### 6.2. Environmental precautions

No additional information available

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

Methods for cleaning up : Store away from other materials.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

See Section 8. Exposure controls/personal protection. For further information refer to section 13.

## 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 out of reach of children. Keep only in the original container in a cool well ventilated place. Keep away from food, drink and animal feedingstuffs. Protect from heat and direct sunlight.  
Incompatible products : Strong bases. Strong acids.  
Incompatible materials : Sources of ignition. Direct sunlight.  
Storage area : Store in a well-ventilated place.

### 7.3. Specific end use(s)

Rodenticide.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

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RADAR (8g) (124-38-9)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Carbon dioxide
IOEL TWA	9000 mg/m <sup>3</sup>
	5000 ppm
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
CARBON DIOXIDE (124-38-9)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Carbon dioxide
IOEL TWA	9000 mg/m <sup>3</sup>
	5000 ppm
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC

## 8.2. Exposure controls

### Appropriate engineering controls

#### Appropriate engineering controls:

Ensure adequate ventilation, especially in confined areas. Ensure good ventilation of the work station.

### Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

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



### Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses. Safety glasses

### Skin protection

#### Skin and body protection:

Wear protective gloves

#### Hand protection:

Wear protective gloves.

### Respiratory protection

#### Respiratory protection:

No respiratory protection needed under normal use conditions

### Thermal hazards

#### Thermal hazard protection:

Protect from heat and direct sunlight.

### Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke during use.

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### SECTION 9: Physical and chemical properties

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

Physical state	: Gas
Colour	: Colourless.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not applicable
Boiling point	: -88.1 °C
Flammability	: Non flammable.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not applicable
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not applicable
Viscosity, kinematic	: Not applicable
Solubility	: Water: 2 g/l
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 5730 kPa
Vapour pressure at 50°C	: Not available
Density	: 1.8 mg/cm <sup>3</sup>
Relative density	: Not applicable
Relative vapour density at 20°C	: 1.519
Particle characteristics	: Not applicable

#### 9.2. Other information

##### Other safety characteristics

Gas group : Compressed gas

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified (This route of exposure is not anticipated.)

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Acute toxicity (dermal)	: Not classified (This route of exposure is not anticipated.)
Acute toxicity (inhalation)	: Not classified (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	: Not classified (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
Additional information	: 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 applicable
Additional information	: Based on available data, the classification criteria are not met

### 11.2. Information on other hazards

#### Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties	: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %
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#### Other information

Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met
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## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

### 12.2. Persistence and degradability

#### RADAR (8g) (124-38-9)

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

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

#### RADAR (8g) (124-38-9)

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

#### RADAR (8g) (124-38-9)

Ecology - soil

No ecological damage caused by this product.

### 12.5. Results of PBT and vPvB assessment

#### RADAR (8g) (124-38-9)

vPvB: not relevant – no registration required

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods

: Under normal circumstances, waste product / empty containers will be disposed of by Rentokil Initial.

## SECTION 14: Transport information

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

### 14.1. UN number or ID number

UN-No. (ADR)	: UN 2037
UN-No. (IMDG)	: UN 2037
UN-No. (IATA)	: UN 2037
UN-No. (ADN)	: UN 2037
UN-No. (RID)	: UN 2037

### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)
Proper Shipping Name (IMDG)	: RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)
Proper Shipping Name (IATA)	: Receptacles, small, containing gas
Proper Shipping Name (ADN)	: RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)
Proper Shipping Name (RID)	: RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)
Transport document description (ADR)	: UN 2037 RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) (Carbon dioxide), 2.2, (E)
Transport document description (IMDG)	: UN 2037 RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) (Carbon dioxide), 2.2
Transport document description (IATA)	: UN 2037 Receptacles, small, containing gas (Carbon dioxide), 2.2
Transport document description (ADN)	: UN 2037 RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) (Carbon dioxide), 2.2
Transport document description (RID)	: UN 2037 RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) (Carbon dioxide), 2.2

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 2.2

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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

Danger labels (IATA) : 2.2

:



### 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

EmS-No. (Fire) : F-D

EmS-No. (Spillage) : S-U

Other information : No supplementary information available

## 14.6. Special precautions for user

### Overland transport

Classification code (ADR) : 5A

Special provisions (ADR) : 191, 303, 327, 344

Limited quantities (ADR) : 1I

Excepted quantities (ADR) : E0

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Packing instructions (ADR)	: P003, LP200
Special packing provisions (ADR)	: PP17, PP96, RR6, L2
Mixed packing provisions (ADR)	: MP9
Transport category (ADR)	: 3
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV9, CV12
Tunnel restriction code (ADR)	: E

### Transport by sea

Special provisions (IMDG)	: 191, 277, 303, 327, 344, 959
Limited quantities (IMDG)	: SP277
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P003, LP200
Special packing provisions (IMDG)	: PP96, L2, PP17
Stowage category (IMDG)	: B
Stowage and handling (IMDG)	: SW2, SW22
Properties and observations (IMDG)	: Normally contain mixtures of liquefied Butane and Propane in various proportions for use in camping stoves, etc.

### Air transport

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 1kg
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 1kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 15kg
Special provisions (IATA)	: A98, A145, A167, A802
ERG code (IATA)	: 2L

### Inland waterway transport

Classification code (ADN)	: 5A
Special provisions (ADN)	: 191, 303, 327, 344
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0

### Rail transport

Classification code (RID)	: 5A
Special provisions (RID)	: 191, 303, 327, 344
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P003, LP200
Special packing provisions (RID)	: PP17, PP96, RR6, L2
Mixed packing provisions (RID)	: MP9
Transport category (RID)	: 3
Special provisions for carriage - Loading, unloading and handling (RID)	: CW9, CW12
Colis express (express parcels) (RID)	: CE2
Hazard identification number (RID)	: 20

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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### SECTION 15: Regulatory information

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

##### EU-Regulations

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

Not listed on REACH Annex XVII

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

Not listed on REACH Annex XIV (Authorisation List)

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

Contains no substance(s) listed on the REACH Candidate List

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

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

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

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

###### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

###### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

###### 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) : 14 - Rodenticides  
Authorisation number : EU-0021482-0000  
Contains : CARBON DIOXIDE (100.00 % (percentage))

###### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

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

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

##### National regulations

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

#### Indication of changes

Section	Changed item	Comments
15	Authorisation number	<b>Modified</b>

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.

Training advice : Use biocides safely. Always read the label and product information before use. Ensure you have received adequate training and/or instructions before use.

Other information : Single-use canister containing 8g of carbon dioxide within a tamper resistant unit.

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### 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 EU 2024.11.14

#### 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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