Safety Data Sheet

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

Date of issue: 21/12/2018

Version: 13.0



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

Product identifier

Product form : Substance Trade name : RADAR Type of product Biocide

UK-2010-0002 / IE/BPA 70005 Registration No

Product group : Product

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

Relevant identified uses 1.2.1.

Main use category : Professional use

Industrial/Professional use spec : For professional use 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

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

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	

SECTION 2: Hazards identification

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

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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)



Signal word (CLP) : Warning

Hazard statements (CLP) : H280 - Contains gas under pressure; may explode if heated.

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children. P251 - Do not pierce or burn, even after use

P261 - Avoid breathing gas.

P403 - Store in a well-ventilated place.

P410 - Protect from sunlight.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : RADAR 2.7g

Name	Product identifier	%
Carbon Dioxide	(CAS-No.) 124-38-9 (EC-No.) 204-696-9	99.99

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.

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.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing. 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/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 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

Carbon Dioxide (124-38-9)		
EU	Local name	Carbon dioxide
EU	IOELV TWA (mg/m³)	9000 mg/m³
EU	IOELV TWA (ppm)	5000 ppm
Ireland	Local name	Carbon dioxide
Ireland	OEL (8 hours ref) (mg/m³)	9000 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	5000 ppm
Ireland	OEL (15 min ref) (mg/m3)	27000 mg/m³
Ireland	OEL (15 min ref) (ppm)	15000 ppm
Ireland	Notes (IE)	IOELV
United Kingdom	Local name	Carbon dioxide
United Kingdom	WEL TWA (mg/m³)	9150 mg/m³
United Kingdom	WEL TWA (ppm)	5000 ppm
United Kingdom	WEL STEL (mg/m³)	27400 mg/m ³
United Kingdom	WEL STEL (ppm)	15000 ppm

8.2. Exposure controls

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

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Respiratory protection:

Wear appropriate mask

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 Colour : Colourless. characteristic. Odour Odour threshold No data available : No data available pН Relative evaporation rate (butylacetate=1) : No data available : No data available Melting point Freezing point : No data available : -88.1 °C Boiling point

Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Non flammable.
Vapour pressure : 5730 kPa
Relative vapour density at 20 °C : 1.519

Relative density : No data available Density : 1.8 mg/cm³ : Water: 2 g/l Solubility : No data available Log Pow No data available Viscosity, kinematic Viscosity, dynamic : No data available Explosive properties : No data available : No data available Oxidising properties **Explosive limits** : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable at normal handling and storage conditions.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Not established.

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

Fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : 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.)

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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

RADAR		
	Persistence and degradability	Not established.

12.3. Bioaccumulative potential

RADAR

Bioaccumulative potential Not established.

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

Waste treatment methods : Under normal circumstances, waste product / empty containers will be disposed of by Rentokil

Initial.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

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)
 : 1950

 UN-No. (IMDG)
 : 1950

 UN-No. (IATA)
 : 1950

 UN-No. (ADN)
 : 1950

 UN-No. (RID)
 : 1950

14.2. UN proper shipping name

Proper Shipping Name (ADR) : AEROSOLS
Proper Shipping Name (IMDG) : AEROSOLS

Proper Shipping Name (IATA) : Aerosols, non-flammable

Proper Shipping Name (ADN) : AEROSOLS

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Proper Shipping Name (RID) : AEROSOLS

Transport document description (ADR) : UN 1950 AEROSOLS, 2.2, (E)
Transport document description (IMDG) : UN 1950 AEROSOLS, 2.2

Transport document description (IATA) : UN 1950 Aerosols, non-flammable, 2.2

Transport document description (ADN) : UN 1950 AEROSOLS, 2.2
Transport document description (RID) : UN 1950 AEROSOLS, 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,



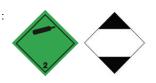
IATA

Transport hazard class(es) (IATA) : 2.2 Hazard labels (IATA) : 2.2,



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

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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) : 5A

Special provisions (ADR) : 190, 327, 344, 625

Limited quantities (ADR) : 11
Excepted quantities (ADR) : E0

Packing instructions (ADR) : P207, LP02 Special packing provisions (ADR) : PP87, RR6, L2

Mixed packing provisions (ADR): MP9Transport category (ADR): 3Special provisions for carriage - Packages: V14

(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

: CV9, CV12

: None

Tunnel restriction code (ADR) : E

- Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 959

Limited quantities (IMDG) : SP277

Excepted quantities (IMDG) : E0

Packing instructions (IMDG) : P207, LP02

Special packing provisions (IMDG) : PP87, L2

EmS-No. (Fire) : F-D

EmS-No. (Spillage) : S-U

- Air transport

Stowage category (IMDG)

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 203
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 203
CAO max net quantity (IATA) : 150kg

Special provisions (IATA) : A98, A145, A167, A802

ERG code (IATA) : 2L

- Inland waterway transport

Classification code (ADN) : 5A

Special provisions (ADN) : 19, 327, 344, 625

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E0

Equipment required (ADN) : PP

Ventilation (ADN) : VE04

Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : 5A

Special provisions (RID) : 190, 327, 344, 625

Limited quantities (RID) : 1L

Excepted quantities (RID) : E0

Packing instructions (RID) : P207, LP02

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Special packing provisions (RID) : PP87, RR6, L2

Mixed packing provisions (RID) : MP9
Transport category (RID) : 3
Special provisions for carriage – Packages : W14

(RID)

Special provisions for carriage - Loading,

unloading and handling (RID)

: CW9, CW12

Colis express (express parcels) (RID) : CE2
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

RADAR is not on the REACH Candidate List RADAR 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

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.
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 aerosol canister containing 2.5 – 3.0g of carbon dioxide within a tamper resistant unit.

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.

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