

SECTION 1: Product identifier

1.1. GHS Product identifier

Product form	: Substance
Trade name	: RADAR (8g)
Product code	: 304852 - 8g (EU)
Formula	: CO ₂

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use	: 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.
Restrictions on use	: For use only by trained professionals

1.4. Details of manufacturer or importer

Rentokil Initial Pty Ltd (Australia)
Unit A1 Lidcombe Business Park,
3-29 Birnie Avenue
Lidcombe NSW 2141
Australia

Product advice line: 61 2 8719 6264
Email: sds@rentokil.com

1.5. Emergency phone number

Emergency number	: Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand).
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SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Gases under pressure : Liquefied gas H280

2.2. GHS Label elements, including precautionary statements

Hazard pictograms (GHS AU)



Gas cylinder

Signal word (GHS AU)	: Warning
Hazard statements (GHS AU)	: H280 - Contains gas under pressure; may explode if heated
Precautionary statements (GHS AU)	: P410+P403 - Protect from sunlight. Store in a well-ventilated place.

2.3. Other hazards which do not result in classification

No additional information available

RADAR (8g)

Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

SECTION 3: Composition and information on ingredients

Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
CARBON DIOXIDE (Active substance (Biocide))	124-38-9	100	Press. Gas (Comp.), H280

SECTION 4: First aid measures

4.1. Description of necessary 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. Wash skin with plenty of water.
First-aid measures after eye contact	: This route of exposure is not anticipated. Rinse eyes with water as a precaution.
First-aid measures after ingestion	: This route of exposure is not anticipated. Call a poison center or a doctor if you feel unwell.
Self protection of the first-aider	: First aid workers will be equipped with suitable personal protective equipment.

4.2. Symptoms caused by exposure

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. Medical attention and special treatment

Other medical advice or treatment	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.
General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

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. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

RADAR (8g)

Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.
Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

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

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Ventilate area. Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment. Not applicable.

6.3. Methods and materials for containment and cleaning up

For containment : Stop leak without risks if possible.
Methods for cleaning up : Store away from other materials.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. 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.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.
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.
Packaging materials : Store always product in container of same material as original container.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

CARBON DIOXIDE (124-38-9)

Australia - Occupational Exposure Limits

Local name	Carbon dioxide
OES TWA	9000 mg/m ³ 22500 mg/m ³ in coal mines
	5000 ppm 12500 ppm in coal mines

RADAR (8g)

Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

CARBON DIOXIDE (124-38-9)	
OES STEL	54000 mg/m³
	54000 mg/m³ in coal mines
	30000 ppm
	30000 ppm in coal mines
Regulatory reference	Workplace exposure standards for airborne contaminants (2024)

8.2. Biological Monitoring

No additional information available

8.3. Engineering controls

Appropriate engineering controls : Ensure adequate ventilation, especially in confined areas. Ensure good ventilation of the work station.

8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses. Safety glasses

Skin and body protection : Wear protective gloves

Respiratory protection : No respiratory protection needed under normal use conditions

Personal protective equipment symbol(s)



Thermal hazard protection : Protect from heat and direct sunlight.

Environmental exposure controls : Avoid release to the environment.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

Physical state : Gas

Appearance : No data available

Colour : Colourless

Odour : characteristic

Odour threshold : No data available

pH : No data available

pH solution : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point / Freezing point : No data available

Boiling point : -88.1 °C

Flash point : No data available

Auto-ignition temperature : No data available

Flammability : No data available

Vapour pressure : Vapour pressure: 5730 kPa

Relative density : Relative vapour density at 20°C: 1.519

Density : Density: 1.8 mg/cm³

Solubility : Water: 2 g/l

Partition coefficient n-octanol/water (Log Pow) : No data available

Explosive properties : No data available

Explosive limits : No data available

Minimum ignition energy : No data available

Fat solubility : No data available

Gas group : Compressed gas

RADAR (8g)

Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: The product is stable at normal handling and storage conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.
Incompatible materials	: Strong acids. Strong bases.
Hazardous decomposition products	: Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

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 sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified

CARBON DIOXIDE (124-38-9)

Reproductive toxicity	Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not applicable
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met

SECTION 12: Ecological information

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request

12.1. Ecotoxicity

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)

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

12.3. Bioaccumulative potential

RADAR (8g)

Bioaccumulative potential	Not relevant.
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RADAR (8g)

Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

12.4. Mobility in soil

RADAR (8g)

Ecology - soil	No ecological damage caused by this product.
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12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available

RADAR (8g)

Fluorinated greenhouse gases	False
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CARBON DIOXIDE (124-38-9)

Fluorinated greenhouse gases	False
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SECTION 13: Disposal considerations

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Under normal circumstances, waste product / empty containers will be disposed of by Rentokil Initial. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.
Ecological waste information	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADG / IMDG / IATA

ADG	IMDG	IATA
14.1. UN number		
Not applicable	2037	2037
14.2. UN Proper Shipping Name		
Not applicable	RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)	Receptacles, small, containing gas
Transport document description		
Not applicable	UN 2037 RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) (Carbon dioxide), 2.2	UN 2037 Receptacles, small, containing gas (Carbon dioxide), 2.2
14.3. Transport hazard class(es)		
Not applicable	2.2	2.2
Not applicable		
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Not applicable	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No

RADAR (8g)

Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

14.6. Special precautions for user

Specific storage requirement : No data available
Shock sensitivity : No data available

14.7. Additional information

Other information : No supplementary information available

Transport by road and rail

Not applicable

Transport by sea

UN-No. (IMDG) : 2037
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
EmS-No. (Fire) : F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES
EmS-No. (Spillage) : S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE)
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

UN-No. (IATA) : 2037
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

14.8. Hazchem or Emergency Action Code

Hazchem Code : Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations

Australian Industrial Chemicals Introduction Scheme (AICIS)

Australian Inventory of Industrial Chemicals (AICIS) : All the chemicals contained in this product are listed introductions
Inventory) status

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

No additional information available

Australian Pesticides and Veterinary Medicines Authority (APVMA)

No additional information available

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

15.2. International agreements

No additional information available

RADAR (8g)

Safety Data Sheet

according to the Work Health and Safety (WHS) Regulations

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

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

Full text of H-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

Safety Data Sheet (SDS), Australia

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.