



Safety Data Sheet

According to the Model WHS Regulations and the ADG code

CO2 Cartridge

Revision date: 19.03.2021

Product code: 00156-0431AUS

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

1.1. Product identifier

CO2 Cartridge

Art.-No.

506 0351, 506 0352, 506 0375, 506 0376, 506 0454, 506 0455, 506 0605, 506 4357, 506 4371, 506 4601, 506 9637, 510 3257, 596 0413, 596 0420, 596 0421, 596 4426, 596 4430

CAS No: 124-38-9

EC No: 204-696-9

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

Use of the substance/mixture

Tire repair material

1.3. Details of the supplier of the safety data sheet

Company name: REMA TIP TOP Australia Pty Ltd.

Street: 3 - 7 Ironbark Close

Place: Warabrook
NSW 2304 / Australia

Telephone: +61-2-4935-0200

Internet: www.rema-tiptop.com.au

Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de

1.4. Emergency telephone number:

+61-280735031, Infotrac/GBK GmbH-ID: 93591

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS CHEMICAL ACCORDING TO SAFE WORK AUSTRALIA AND WHS CRITERIA

CLASSIFIED AS DANGEROUS GOODS ACCORDING TO THE ADG CODE

POISON SCHEDULE: none allocated

Classification according to WHS

Hazard categories:

Gases under pressure: Compressed gas

Hazard Statements:

Contains gas under pressure; may explode if heated.

2.2. Label elements

Component(s) to be indicated on the label

Carbon dioxide 100 %

Signal word: Warning**Pictograms:**

gas cylinder

Hazard statements

H280 Contains gas under pressure; may explode if heated.

Precautionary statements

P102 Keep out of reach of children.

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

P501 Dispose of contents/container to waste treatment facility in accordance with local and national regulations .



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2.3. Other hazards

Extremely cold liquid and gas under pressure. Causes severe frostbite.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula: CO₂
Molecular weight: 44 g/mol

Hazardous components

CAS No	Chemical name	Quantity
EC No	Classification according to WHS criteria	
124-38-9	Carbon dioxide	100 %
204-696-9	Compressed gas; H280	

Full text of H and AUH phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.
Take away from danger area and lay down affected person.

After inhalation

Remove the casualty into fresh air and keep him immobile.
Consult a physician.
If patient is not breathing, apply artificial respiration.

After contact with skin

In case of frostbite rinse with plenty of water. Don't remove clothing.
In case of frostbite due to intensive contact, consult a doctor.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Seek medical treatment by eye specialist.

After ingestion

Ingestion is not considered a potential route of exposure.

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

Higher concentrations may cause asphyxia due to reduced oxygen levels.
Rapid evaporation of the liquid may cause frostbite.

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

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Product does not burn, fire-extinguishing activities according to surrounding.
Foam, carbon dioxide (CO₂), dry chemical, water-spray

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Heating will cause pressure rise with risk of bursting.



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5.3. Advice for firefighters

Use breathing apparatus with independent air supply.
Protective suit.
HAZCHEM: 2T

Additional information

Cool containers at risk with water spray jet.
Vapours are heavier than air and spread along ground.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Use personal protective clothing.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.

6.3. Methods and material for containment and cleaning up

Ventilate the room well.

6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).
Information for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with the skin and the eyes.
Use only in thoroughly ventilated areas.

Advice on protection against fire and explosion

No special protective measures against fire required.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.
Use only in well-ventilated areas.

Advice on storage compatibility

No materials to be especially mentioned.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Tire repair material

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits (OEL) - Australia

CAS No	Substance	ppm	mg/m3	Category
124-38-9	Carbon dioxide	5000	9000	TWA
124-38-9	Carbon dioxide	30000	54000	STEL



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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
124-38-9	Carbon dioxide	5000	9150		TWA (8 h)	WEL
		15000	27400		STEL (15 min)	WEL

8.2. Exposure controls

Protective and hygiene measures

- Avoid contact with eyes and skin.
- Wash hands before breaks and immediately after handling the product.
- When using do not eat, drink or smoke.
- Do not breath vapours or spray mist.

Eye/face protection

- Safety goggles with side protection.

Hand protection

- Not required under normal use.

Skin protection

- Not required under normal use.

Respiratory protection

- No personal respiratory protective equipment required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Gaseous
Colour:	Colourless
Odour:	Odourless

Test method

pH-Value: No information available.

Changes in the physical state

Melting point:	- 56.6 °C
Initial boiling point and boiling range:	- 78.5 °C
Flash point:	Not applicable.

Flammability

Solid: No information available.

Explosive properties

The product is not explosive.

Lower explosion limits:	Not applicable.
Upper explosion limits:	Not applicable.
Ignition temperature:	Not applicable.

Auto-ignition temperature

Solid: No information available.

Decomposition temperature: No information available.

Oxidizing properties

Not fire-promoting.

Vapour pressure:
(at 20 °C) 57300 hPa



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Density (at 20 °C):	0.75 g/cm ³
Water solubility: (at 20 °C)	2 g/L
Solubility in other solvents	
No information available.	
Partition coefficient:	No information available.
Viscosity / dynamic:	No information available.
Viscosity / kinematic:	No information available.
Vapour density:	1.52
Evaporation rate:	No information available.

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Heating will cause pressure rise with risk of bursting.
Vapours are heavier than air and spread along ground.

10.5. Incompatible materials

No materials to be especially mentioned.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Practical experience



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Other observations

Contact with eyes may cause irritation.
Higher concentrations may cause asphyxia due to reduced oxygen levels.
Rapid evaporation of the liquid may cause frostbite.

SECTION 12: Ecological information

12.1. Toxicity

Ecological data are not available.

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

12.6. Other adverse effects

No data available

Further information

Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Can be incinerated, when in compliance with local regulations.
Where possible recycling is preferred to disposal.

Contaminated packaging

Dispose of contents/container to approved disposal company or local collection.

SECTION 14: Transport information



Land transport (ADG)

14.1. UN number:	UN 2037
14.2. UN proper shipping name:	Receptacles, small, containing gas (gas cartridges)
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label:	2.2
Special Provisions:	191 277 303 344
Limited quantity:	1 L / 30 kg

Other applicable information (land transport)

Special provision 191: Product is not subject to ADG.
HAZCHEM: 2T

Marine transport (IMDG)

14.1. UN number:	UN 2037
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14.2. UN proper shipping name:	Receptacles, small, containing gas (gas cartridges)
14.3. Transport hazard class(es):	2.2
14.4. Packing group:	-
Hazard label:	2.2
Marine pollutant:	No
Special Provisions:	191, 277, 303, 344
Limited quantity:	1 L / 30 kg
Excepted quantity:	E0
EmS:	F-D, S-U

Other applicable information (marine transport)

Special provision 191: Product is not subject to IMDG Code.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	UN 2037
14.2. UN proper shipping name:	Receptacles, small, containing gas (gas cartridges)
14.3. Transport hazard class(es):	2.2
14.4. Packing group:	-
Hazard label:	2.2
Special Provisions:	A98 A167 A802
Limited quantity Passenger:	1 kg
Passenger LQ:	Y203
Excepted quantity:	E0
IATA-packing instructions - Passenger:	203
IATA-max. quantity - Passenger:	1 kg
IATA-packing instructions - Cargo:	203
IATA-max. quantity - Cargo:	15 kg

Other applicable information (air transport)

Special provision A98: Product is not subject to IATA-DGR.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

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

The transport takes place only in approved and appropriate packaging.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2004/42/EC (VOC): 100 %

National regulatory information

Water contaminating class (D): - - not water contaminating

Additional informationPoison Schedule: none allocated
This substance is listed on AICS.**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information



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Abbreviations and acronyms

ADG = Australian Code for the Transport of Dangerous Goods by Road & Rail

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

HAZCHEM = HAZardous CHEMicals

WHS = Work Health and Safety

NOHSC = National Occupational Health and Safety Commission (Australia)

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

Relevant H and AUH phrases (number and full text)

H280 Contains gas under pressure; may explode if heated.

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.