

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### CO2 Cartridge

Revision date: 25.07.2018

Product code: 00156-0431

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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 AG

Street: Gruber Strasse 65

Place: D-85586 Poing

Telephone: +49 (0) 8121 / 707 - 100

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

### 1.4. Emergency telephone number:

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)  
In England and Wales: NHS 111 In Scotland: NHS 24 - dial 111

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories:

Gases under pressure: Compressed gas

Hazard Statements:

Contains gas under pressure; may explode if heated.

### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

Signal word: Warning

#### Pictograms:



#### Hazard statements

H280 Contains gas under pressure; may explode if heated.

#### Precautionary statements

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

### 2.3. Other hazards

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

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

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Sum formula: CO2



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Molecular weight: 44 g/mol

#### Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
124-38-9	Carbon dioxide	100 %
	204-696-9	
	Compressed gas; H280	

Full text of H and EUH statements: 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 (CO<sub>2</sub>), 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.

#### 5.3. Advice for firefighters

Use breathing apparatus with independent air supply.  
Protective suit.

#### Additional information

Cool containers at risk with water spray jet.



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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

###### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	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.

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**Eye/face protection**

Safety goggles with side protection (EN 166).

**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: n.a.

**Changes in the physical state**

Melting point: - 56,6 °C

Initial boiling point and boiling range: - 78,5 °C

Sublimation point: n.a.

Softening point: n.a.

Flash point: n.a.

**Flammability**

Solid: n.a.

Gas: Not combustible

**Explosive properties**

The product is not explosive.

Lower explosion limits: n.a.

Upper explosion limits: n.a.

Ignition temperature: n.a.

**Auto-ignition temperature**

Solid: n.a.

Gas: The product is not self-igniting

Decomposition temperature: n.d.

**Oxidizing properties**

Not fire-promoting.

Vapour pressure: 57300 hPa  
(at 20 °C)Density (at 20 °C): 0,75 g/cm<sup>3</sup>

Bulk density: n.a.

Water solubility: 2 g/L  
(at 20 °C)**Solubility in other solvents**

n.d.

Partition coefficient: n.d.

Viscosity / dynamic: n.a.



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Viscosity / kinematic:	n.a.
Flow time:	n.a.
Vapour density:	1,52
Evaporation rate:	n.d.
Solvent separation test:	0 %
Solvent content:	0 %

#### **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.

##### **Additional information on tests**

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

##### **Practical experience**

##### **Other observations**

Contact with eyes may cause irritation.  
Higher concentrations may cause asphyxia due to reduced oxygen levels.

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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.

###### **Waste disposal number of waste from residues/unused products**

160505 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers other than those mentioned in 16 05 04

###### **Contaminated packaging**

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

#### SECTION 14: Transport information

##### **Land transport (ADR/RID)**

<b><u>14.1. UN number:</u></b>	UN 2037
<b><u>14.2. UN proper shipping name:</u></b>	Receptacles, small, containing gas (gas cartridges)
<b><u>14.3. Transport hazard class(es):</u></b>	2
<b><u>14.4. Packing group:</u></b>	-
Hazard label:	2.2



Classification code:	5A
Limited quantity:	1 L / 30 kg
Excepted quantity:	E0
Transport category:	3
Tunnel restriction code:	E

##### **Other applicable information (land transport)**

Special provision 191: Product is not subject to ADR/RID.

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#### Inland waterways transport (ADN)

<b>14.1. UN number:</b>	UN 2037
<b>14.2. UN proper shipping name:</b>	Receptacles, small, containing gas (gas cartridges)
<b>14.3. Transport hazard class(es):</b>	2
<b>14.4. Packing group:</b>	-
Hazard label:	2.2



Classification code:	5A
Limited quantity:	1 L / 30 kg
Excepted quantity:	E0

#### Other applicable information (inland waterways transport)

Special provision 191: Product is not subject to ADN.

#### Marine transport (IMDG)

<b>14.1. UN number:</b>	UN 2037
<b>14.2. UN proper shipping name:</b>	Receptacles, small, containing gas (gas cartridges)
<b>14.3. Transport hazard class(es):</b>	2.2
<b>14.4. Packing group:</b>	-
Hazard label:	2.2



Marine pollutant:	No
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)

<b>14.1. UN number:</b>	UN 2037
<b>14.2. UN proper shipping name:</b>	Receptacles, small, containing gas (gas cartridges)
<b>14.3. Transport hazard class(es):</b>	2.2
<b>14.4. Packing group:</b>	-
Hazard label:	2.2



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.

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#### 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 %
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

##### National regulatory information

Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
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#### 15.2. Chemical safety assessment

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

### SECTION 16: Other information

#### Changes

Changes in chapter:

#### Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
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  
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 EUH statements (number and full text)

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





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(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.

(n.a. = not applicable; n.d. = not determined)