

Safety Data Sheet (REACH regulation (EC) no.1907/2006)

1. Identification of the substance / preparation and of the company**1.1 Product identifier**

Product name : Weldtite Jetvalve (CO2) 16g & 25g filled gas cylinders
Product No. 07020 / 07024 (1x16g), 07008 / 07021 / 07022 / 07023 (2x16g),
07014 (3x16g), 07009 (5x16g), 07011 (30x16g)
07012 (3x25g), 07013 (20x25g)

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

Identified uses: Inflator for bicycle tyres (also used for life jackets)

1.3 Details of the supplier of the safety data sheet**Company**

Weldtite Products Ltd
Unit 9, Harrier Road, Humber Bridge Industrial Estate, Barton upon Humber
North Lincolnshire DN18 5RP UK
T: +44 (0)1652 660000 F : +44 (0)1652 660066
E : sales@weldtite.co.uk W : www.weldtite.co.uk

Responsible

1.4 Emergency phone: **44 (0)1652660000 (Available 08.30 to 17.00)

2. Hazards identification**2.1 Classification of the substance or mixture****2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]**

Press. Gas (Liquefied gas): H280 Contains gas under pressure; may explode if heated.

2.2 Label elements

Label In Accordance With (EC) No. 1272/2008

Hazard symbols

Signal Word

Warning

Hazard Statements

H280

Contains gas under pressure; may explode if heated.

Precautionary Statements

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P410 + P403

Protect from sunlight. Store in a well-ventilated place.

Supplementary Precautionary Statements

n/a

2.3 Other hazards

Physico-chemical hazards

Heat causes increase in pressure and risk of bursting

Health Hazards

Asphyxiant in high concentrations.

Contact with solid CO2 (carbon dioxide snow) and liquid CO2 may cause cryogenic burns/frostbite.

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

Further hazards were not determined with the current level of knowledge.

3. Composition / Information on ingredients**3.1 Substances**

Carbon dioxide	CAS-No.: 124-38-9	EC No.: 204-696-9	100%
Classification (EC 1272/2008)	Press. Gas (*): H280		

Comment on component parts list SVHC (Candidate List of Substances of Very High Concern for authorization): Contains no or less than 0.1% of the listed substances.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

4: First aid measures**4.1 Description of first aid measures**

General information:

Fresh air, oxygen or, if necessary, artificial ventilation.

Inhalation:

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion:

Ingestion is not applicable

Skin contact:

Irrigate affected area with tepid water for 5 minutes. Apply a sterile dressing and treat as a thermal burn. Seek medical advice and ensure that the possibility of severe burns from exposure to very low temperature is clearly understood.

Eye contact:

If substance has got into the eyes, immediately wash out with plenty of water for several minutes.

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

Migraine. Loss of consciousness. Nausea, vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media All extinguishing media are suitable but method must take into account the surrounding area to minimize dispersion.
 Extinguishing media Water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: None
 Specific hazards: Bursting gas cylinders can be thrown with great force from a fire.

5.3. Advice for firefighters

Special Fire Fighting Procedures: Use self-contained breathing apparatus. Cool containers at risk with water spray jet. Collect contaminated firefighting water separately, must not be discharged into the drains. Fire residues must be disposed of in accordance with local regulations

6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

6.2. Environmental precautions

Do not discharge into the drains.

6.3. Methods and material for containment and cleaning up.

Take up mechanically. Dispose of absorbent material in accordance with the regulations.

6.4. Reference to other sections

See sections 8 & 13 of this safety data sheet.

7: Handling and storage

7.1. Precautions for safe handling

Use only in well-ventilated areas.
 Keep away from sources of ignition, hot surfaces, open flames. Do not smoke.
 Never attempt to refill an empty tube.
 Never attempt to transfer gases from one container to another. Only use for intended purpose.
 Do not subject containers to abnormal mechanical shocks which may cause damage to their integrity.

7.2. Conditions for safe storage, including any incompatibilities

Protect from heat / overheating.
 Store in a cool - Heat will increase pressure and risk of bursting.
 Pressurized container. Protect from sunlight and temperatures above 50 ° C.
 Keep container in a well ventilated place.
 Protect containers stored in the open against rusting and extremes of weather. Containers should not be stored in conditions likely to encourage corrosion.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8: Exposure controls / personal protection

8.1 Control parameters

Content [%]	Substance (GB occupational exposure limit value)
100	Carbon dioxide
	Long-term exposure: 5000 ppm, 9150 mg / m ³ ,
	Short-term exposure (15-minute): 15000 ppm, 27400 mg / m ³ ,

Content [%]	Substance (EU occupational exposure limit value)
100	Carbon dioxide
	Eight hours: 5000 ppm, 9000 mg / m ³ ,

8.2 Exposure controls

Protective equipment



Hand protection: Recommended. Butyl rubber, >120min (EN374)
 Eye protection: Wear suitable eye protection.
 Skin Protection: Not required under normal conditions.
 Other Protection: Do not inhale gases.
 Hygiene measures: Wash hands before breaks and at end of work.
 Process conditions & Engineering measures: Ensure adequate ventilation on workstation.
 Respiratory equipment: If ventilation is insufficient, wear respiratory protection.
 Short term: filter apparatus, filter B
 Environmental Exposure Controls : See Chapter 6 +7

9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form:	Liquefied pressure gas, non-flammable
Colour:	colourless
Odour:	odourless
Molecular weight:	44.01
Vapour pressure (15°C):	50.85 bar
Density of gas (15°C, 1 bar):	1.8474 g/l
Specific gravity, gas (air=1):	1.528
Critical temperature:	31.1°C
Critical pressure:	73.825 bar
Triple point (5.185 bar):	-56.6°C
Solubility of gas in water (15°C, 1 bar):	1.9786 g/l

(Note: All pressures are absolute)

9.2 Other information

None

10: Stability and reactivity**10.1 Reactivity**

There are no known reactivity hazards associated with this product, if used as directed. Heat causes increase in pressure and risk of bursting.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Risk of bursting.

10.4. Conditions to avoid

See Section 7.2.

10.5. Incompatible materials

not determined

10.6. Hazardous decomposition products

No known dangerous decomposition products.

11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Serious eye damage/irritation**

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

Skin corrosion/irritation

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

Respiratory or skin sensitisation

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

Specific target organ toxicity — single exposure

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

Specific target organ toxicity — repeated exposure

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

Mutagenicity

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

Reproduction toxicity

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

Carcinogenicity

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

General comments

Carbon dioxide (which is normally present in atmospheric air at the level of approximately 350 vpm (0.035%)), regulates the breathing function and an increase in concentration will cause increased breathing rate. The occupational exposure standard (OES) is 5000vpm (0.5%), but changes in the breathing rate may not be noticed until there is a concentration of 20.00 vpm (2%) when the rate will increase to about 50% above the normal level. Prolonged exposure at this level for several hours may cause a headache and a feeling of exhaustion.

At high concentrations carbon dioxide may cause asphyxiation and can paralyse the respiratory centre. Breathing an atmosphere rich in carbon dioxide can cause immediate loss of consciousness and rapid death. Symptoms of asphyxiation may include rapid and gasping respiration, rapid fatigue, nausea, vomiting, cyanosis and may lead to loss of consciousness or death from anoxia.

12: Ecological information**12.1 Toxicity**

Content [%]	Substance
100	Carbon dioxide
	LC50, (96h), Oncorhynchus mykiss: 35 mg/L

12.2 Persistence and degradability

The chromate layer which protects the zinc plating, contains chromium in the oxidation state of VI

12.3 Bioaccumulative

No information available.

12.4 Mobility in soil

Not applicable

Safety Data Sheet (REACH regulation (EC) no.1907/2006)**12.5 Results of PBT and vPvB assessment**

This product does not contain any PBT or vPvB substances.

12.6 Other adverse effects

Global-warming potential: 1.

13: Disposal considerations**General information**

Dispose empty cylinder in accordance with local authority waste regulations.

Never dispose of a filled cylinder. Never dump at sea.

13.1. Waste treatment methods

Contact local authority for recycling.

Filled container: Waste no. (recommended) 160505 gases in pressure containers other than those mentioned in 160504 *.

Empty container: Waste no. (recommended) 150104 metal packaging.

14: Transport information**14.1. UN number**

In accordance with UN shipping name see item 14.2

14.2. UN proper shipping name

Classification according to ADR

UN 1013 (To the requirements of ADR is not subject after Special Provision 584) 2.2
- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code)

Classification according to IMDG

UN 2037 (To the IMDG regulations is not subject after special regulation 191) 2

Classification according to IATA

UN 1013 (To the IATA regulations, chapter 4.2, column F, the cylinders are dangerous goods in expected quantities. The code for expected quantities is "E1") 2.2

Label**14.3. Transport hazard class(es)**

In accordance with UN shipping name see item 14.2

14.4. Packing group

In accordance with UN shipping name see item 14.2

14.5. Environmental hazards

In accordance with UN shipping name see item 14.2

14.6. Special precautions for user

Relevant information under sections 6 to 8

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

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

EU REGULATIONS

1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH), 1272/2008, 75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

Transport regulations

ADR (2019), IMDG Code (2019, 39th Amdt.) IATA-DGR (2019).

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

16: Other information

Abbreviations and acronyms used in the safety data sheet

ADR : European Agreement concerning the International Transport of Dangerous Goods by Road RID : Regulations Concerning the International Transport of Dangerous Goods by Rail IMDG : International Maritime Code for Dangerous Goods IATA : International Air Transport Association ICAO : International Civil Aviation Organization GHS : Globally Harmonized System of Classification and Labelling of Chemicals EINECS : European Inventory of Existing Commercial Chemical Substances CAS : Chemical Abstracts Service

Hazard statements (Chapter 3)

H280 Contains gas under pressure, may explode if heated.

No employment restrictions

VOC (1999/13/EC) does not apply

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.