



# MATERIAL SAFETY DATA SHEET

## CO<sub>2</sub> bulbs

### 1. INFORMATION OF PRODUCT AND COMPANY

**Product name:** CO<sub>2</sub> bulbs - Carbon Dioxide (Compressed)  
**Application:** Speciality  
**Company:** Le Maitre Ltd, 6 Forval Close, Wandle Way, Mitcham, Surrey, CR4 4NE, England  
**In case of emergency:** +44 (0) 208 6462222

### 2. COMPOSITION AND INFORMATION ON COMPONENTS

Hazardous ingredients	CAS-nr	EINECS	w/w %	Symbol	R-phrases
Carbon dioxide	124-38-9	204-696-9	100		RAs

### 3. HAZARDS IDENTIFICATION

**Health and Safety:** Not classified  
**Other Hazards:** Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C

### 4. FIRST AID MEASURES (if exposed to contents)

**Contact with eyes:** Flush immediately with water for 15 minutes, then seek medical attention if required.  
**Contact with skin:** Wash with soap and water. Seek medical attention if any skin irritation persists.  
**Inhalation:** Get fresh air and seek medical assistance if breathing is difficult.  
**Ingestion:** Rinse mouth thoroughly with water and seek immediate medical attention. Do not give anything by mouth if patient is unconscious.

### 5. FIRE FIGHTING MEASURES

**Extinguishing media:** All known extinguishants can be used .  
**Fire fighting procedures:** Move container away or cool with water from a protected position..  
**Unusual exposure hazard:** No specific hazard.  
**Special protective equipment:** Self contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Protective clothing, protective gloves, safety goggles. Extinguish all ignition sources. Ensure adequate ventilation.  
**Environmental precautions:** Do not allow to enter public sewers and watercourses.  
**Cleaning methods:** Ventilate area.

### 7. HANDLING AND STORAGE

**Handling procedures:** Use only in well ventilated areas  
Do not pierce or burn container, even after use  
Do not breathe vapours  
**Storage procedures:** Store in ventilated area away from heat, direct sunlight and sources of ignition.  
Do not expose to temperature exceeding 50°C.

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION (during use)

**Control procedures:** Ensure adequate ventilation. Keep away from heat.  
**Eye protection:** None required.  
**Protective clothing:** None required.  
**Respiratory protection:** Not required providing there is adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.  
**Hygiene:** Wash hands and clothes after use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance/colour/state/odour:** Colourless odourless gas.  
**Boiling point/range:** -75°C.  
**Relative density (liquid):** 0.82.  
**Relative density (air):** 1.52  
**Vapour pressure @ 20°C:** 57.3 bar.  
**Solubility in water:** Soluble.

## 10. STABILITY AND REACTIVITY

**Stability:** Stable.

## 11. TOXICOLOGICAL INFORMATION

**Inhalation:** Concentrations above 15% .  
**Ingestion:** Due to product form, ingestion is considered highly unlikely.  
**Skin contact:** No adverse health effects expected.  
**Eye contact:** No adverse health effects expected.  
**Other information:** No experimental data available.

## 12. ECOLOGICAL INFORMATION

**General information:** Carbon dioxide is a natural component of the earth's atmosphere. However, increases in the atmospheric carbon dioxide levels have been linked with global warming, and hence emission of carbon dioxide into the atmosphere should be minimized as far as possible.

## 13. DISPOSAL CONSIDERATIONS

**National regulations:** Disposal should be in accordance with local, state or national legislation.

## 14. TRANSPORT

**UN number:** 1013  
**Road/Rail – ADR/RID:** UN1013, Carbon Dioxide, Class 2.2,  
**Sea – IMDG:** Not considered as Dangerous Goods as cylinder capacity is less than 100cm<sup>3</sup>.  
**Air – IATA/ICAO:** UN1013, Carbon Dioxide, Class 2.2, **Packing instr.** 200

## 15. REGULATORY INFORMATION

**Risk and Safety Phrase:** RISK PHRASES  
RAs Asphyxiant in high concentrations.

SAFETY PHRASES  
S9 Keep container in a well-ventilated place.  
S23 Do not breathe gas.

## 16. OTHER INFORMATION

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It does not guarantee any specific properties. Apart from any fair dealing for purposes of study, research and review of health, safety and environmental risks, no part of these documents may be reproduced by any process without written permission from Le Maitre Ltd. (08.10.07)