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CNAS IB0071



NO.2623030013

# SAFETY DATASHEET

Product Name: 0.6L Carbon Dioxide

Effective Date: 2023-03-21

Compiler: He Xiaoshuang

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Approver: Dongxuesheng



Shanghai Institute of Chemical Industry Testing Co., Ltd.



# JIANGSU LESOO NEW MATERIAL CO.,LTD.

## SAFETY DATA SHEET

### 0.6L Carbon Dioxide

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#### SECTION1 PRODUCT AND COMPANY IDENTIFICATION

**Product name:** 0.6L Carbon Dioxide  
**Company:** JIANGSU LESOO NEW MATERIAL CO.,LTD.  
**Address:** Building 02, Dujiashan Village, Huayang Town, Jurong City, Zhenjiang City,  
Jiangsu Province, 212425, P.R.China  
**Email:** grace@grtsupply.com  
**Fax:** /  
**Emergency Phone:** 86-511-85976702

**Recommend use of the chemical and restrictions on use:** Industrial production. Not edible, professional use only.

**SDS Number:** 2623030013  
**Effective Date:** 2023-03-21

#### SECTION2 HAZARDS IDENTIFICATION

**Gas contained in the metal cylinder:**

**GHS Classification:**

**Physical Hazards:**

Gases under pressure Compressed gas

**Health Hazards:**

Specific target organ toxicity-Single exposure Category 3 (Narcotic effects)

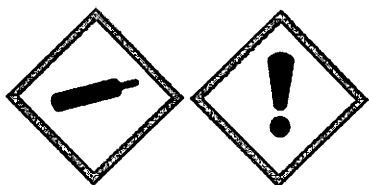
**Environmental Hazards:**

Classification not possible

The hazards not mentioned are not applicable or no data available.

**Label Elements:**

**Pictogram:**

**Signal Word:**

Warning

**Hazard Statements:**

H280 Contains gas under pressure; may explode if heated.

H336 May cause drowsiness or dizziness.

**Prevention Precautionary Statements:**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

**Response Precautionary Statements:**

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P319 Get medical help if you feel unwell.

**Storage Precautionary Statements:**

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

P233 Keep container tightly closed.

P405 Store locked up.

**Disposal Precautionary Statements:**

P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

**Other Hazards:**

No data available.

**SECTION3 INFORMATION ON INGREDIENTS**

Product name: 0.6L Carbon Dioxide

Ingredient	Concentration	CAS No.	EC No.
Gas contained in the metal cylinder:			
Substances:			
Carbon Dioxide	100%	124-38-9	204-696-9

**SECTION4 FIRST-AID MEASURES**

Gas contained in the metal cylinder: :

**Skin Exposure:**

In case of skin contact, flush with copious amounts of water. If irritation persists, Call a physician.

**Eye Exposure:**

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. If irritation persists, Call a physician.

**Inhalation Exposure:**

If inhaled, immediately remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician.

**Oral Exposure:**

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**Most Important Symptoms/Effects, Acute and Delayed:**

No data available.

**Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary:**

No data available.

### SECTION5 FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:**

The product is non-combustible and the appropriate extinguishing agent should be selected according to the cause of the fire.

**Specific Hazards Arising from the Chemical:**

Contains gas under pressure; may explode if heated. May decompose upon combustion or in high temperatures to generate carbon oxides.

**Special Protective Action for Fire-fighters:**

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fire-extinguishing work is done from the windward. Uninvolved persons should evacuate to a safe place. Move the container from the fire to an open place as much as possible. Cool containers with flooding quantities of water until well after fire is out.

### SECTION6 ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Delineate the warning zone according to the area affected by gas. Protective Equipment: Wear self-contained breathing apparatus and appropriate protective clothing. Cut off the source of leakage if safe to do so.

**Environmental Precautions:**

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas.

**Methods and Materials for Containment and Cleaning up:**

Allow the leaked gas to be discharged into the atmosphere. Isolate the leakage area until the gas has dispersed. Ensure adequate ventilation.

### SECTION7 HANDLING AND STORAGE

**Precautions for Safe Handling:**

Closed operation, full ventilation. Operators should be trained and strictly abide by operating procedures. Wear appropriate protective clothing and protect the respiratory system, eyes and hands properly. Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid formation of aerosols. No smoking at working site. Incompatibilities: strong oxidizing agents, combustible substances. Use ventilation systems and equipment. Prevent gas from leaking into the workplace air. Wash hands and face thoroughly after handling. When handling, load and unload with care to prevent damage to cylinders and accessories. Working place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

**Conditions for Safe Storage, Including Any Incompatibilities:**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from ignition sources, heat and flame. Incompatibilities: strong oxidizing agents, combustible substances. Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

**SECTION8 EXPOSURE CONTROL/PPE****Control Parameters:**

GBZ 2.1-2019 Occupational Exposure Limits for Hazardous Agents in the Workplace - Part 1: Chemical Hazardous Agents:

Carbon dioxide: PC-TWA 9000mg/m<sup>3</sup> PC-STEL 18000mg/m<sup>3</sup>

ACGIH: Carbon dioxide: PC-TWA 5000ppm PC-STEL 30000ppm

**Appropriate Engineering Controls:**

Mechanical exhaust required. Safety shower and eye bath.

**Individual Protection Measures:****Eye/Face Protection:**

Wear chemical safety glasses.

**Skin Protection:**

Hand Protection: Wear compatible protective gloves.

Body Protection: Wear appropriate protective clothing.

**Respiratory Protection:**

Wear government approved respirator.

**Thermal Hazards:**

No data available.

**Other Protect:**

No smoking, drinking and eating at working site. Wash thoroughly after handling.

**SECTION9 PHYSICAL/CHEMICAL PROPERTIES**

**Appearance:** Silvery metal cylinder(containing gas )

**Gas contained in the metal**

**cylinder: :**

**Odor:** No data available

**pH Value:** No data available

**Solubility:** No data available

**Melting** Not applicable

**Point/Freezing**

**Point:**

**Boiling Point,** Not applicable

**Initial Boiling**

**Point and Boiling**

**Range:**

**Flash Point** Not applicable

**(Closed Cup):**

**Density/Relative** No data available

**Density:**

**Kinematic** Not applicable

**Viscosity:**

Lower/Upper            No data available  
 Explosion  
 Limit/Flammability  
 Limit:  
 Vapour Pressure:    No data available

Relative Vapor        No data available  
 Density:  
 Partition             No data available  
 Coefficient  
 N-Octanol/Water (  
 Log Value):  
 Autoignition        No data available  
 Temperature:  
 Decomposition       No data available  
 Temperature:  
 Particle              Not applicable  
 Characteristics:

Flammability         Contains gas under pressure; may explode if heated.  
 (Solid, Gas):

#### SECTION10 STABILITY AND REACTIVITY

**Reactivity:**

No data available.

**Chemical Stability:**

Stable under normal temperatures and pressures.

**Possibility of Hazardous Reactions:**

No data available.

**Conditions to Avoid:**

Heat, high temperature.

**Incompatible Materials:**

Strong oxidizing agents, combustible substances.

**Hazardous Decomposition Products:**

Carbon oxides.

#### SECTION11 TOXICOLOGICAL INFORMATION

Gas contained in the metal cylinder: :

**Acute Toxicity:**

No data available.

**Skin Corrosion/Irritation:**

No data available.

**Serious Eye Damage/Irritation:**

No data available.

**Respiratory Sensitization:**

No data available.

**Skin Sensitization:**

No data available.

**Carcinogenicity:**

No data available.

**Germ Cell Mutagenicity:**

No data available.

**Reproductive Toxicity:**

No data available.

**Specific Target Organ Toxicity -Single Exposure:**

May cause drowsiness or dizziness.

**Specific Target Organ Toxicity -Repeated Exposure:**

No data available.

**Aspiration Hazard:**

No data available.

**SECTION12 ECOLOGICAL INFORMATION****Gas contained in the metal cylinder: :****Toxicity:**

No data available.

**Persistence and Degradability:**

No data available.

**Bioaccumulative Potential:**

No data available.

**Mobility in Soil:**

No data available.

**Other Adverse Effects:**

No data available.

**SECTION13 DISPOSAL CONSIDERATION****Disposal Methods:**

Recycle as far as possible. If unable to recycle, it is recommended to use incineration method for disposal under supervision. This product should not be disposed of by discharge into sewers. Return empty containers to the manufacturer or dispose of them in accordance with national and local regulations. Follow the relevant provisions of national and local regulations before disposal. It is recommended to be disposed of by a qualified chemical waste treatment department.

**SECTION14 TRANSPORT INFORMATION**

<b>RID/ADR (2023 Edition):</b>	Proper Shipping Name: CARBON DIOXIDE UN Number: UN1013 Hazard Class: 2 Packing Group: None
<b>IATA DGR (64<sup>th</sup> Edition):</b>	Proper Shipping Name: CARBON DIOXIDE UN Number: UN1013 Hazard Class: 2.2 Packing Group: None
<b>IMO IMDG CODE (2020 Edition):</b>	Proper Shipping Name: CARBON DIOXIDE UN Number: UN1013 Hazard Class: 2.2 Packing Group: None Ems No. : F-C, S-V Marine pollutants: No.
<b>Environmental Hazards:</b>	No.

**Special** No data available.

**Precautions for**

**User:**

**Transport in Bulk** Not applicable.

**according to**

**Annex II of**

**MARPOL 73/78 and**

**the IBC Code:**

## SECTION15 REGULATORY INFORMATION

**Montreal Protocol:**

Not listed.

**Stockholm Convention:**

Not listed.

**Rotterdam Convention:**

Not listed.

**EINECS/ELINCS:**

The product is listed.

**TSCA:**

The product is listed.

**IECSC:**

The product is listed.

## SECTION16 OTHER INFORMATION

**Preparation Date:**

2023-03-21

**Preparation Department:**

Shanghai Research Institute of Chemical Industry Testing Co., Ltd.

Tel(Fax): +86-21-52815377/31765555

**Revision:**

0

**Reference Standard:**

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS), 9<sup>th</sup> revised edition

**Abbreviations and Acronyms:**

CAS: Chemical Abstracts Service EC: European Commission ACGIH: American Conference of Governmental Industrial Hygienists PC-TWA: Permissible concentration-time weighted average PC-STEL: Permissible concentration-short term exposure limit ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road RID: Regulations concerning the International Carriage of Dangerous Goods by Rail IMO IMDG CODE: International Maritime Organization International Maritime Dangerous Goods Code IATA DGR: International Air Transport Association Dangerous Goods Regulations EmS: Emergency schedule 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 EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances TSCA: Toxic Substances Control Act IECSC: Inventory of Existing Chemical Substances in China



**Other Information:**

This SDS is compiled based on the information such as ingredients provided by the applicant and our current knowledge. This SDS shall be used only as a guide. The users of this SDS must make independent judgments on the correctness and completeness and then decide its suitability according to the actual situation. The users should take the relevant legal responsibilities for the consequences of use.

\*\*\*END OF REPORT\*\*\*

