

MSDS

Material Safety Data Sheets

Date: Dec. 28, 2024

Report No.: H22942400241228

Section 1 - Product and Company Identification

Product Identification: CO2 Cylinder

Company Name: Motocarene

Company Address: 990 Biscayne Blvd, Suite 501-16, Miami, FL 33132 USA

Tel : 0039-388-79-59-633

Email: info@motocarene.com

Identified uses: Industrial and scientific research uses.

Remark: The MSDS is prepared based on the information provided by client.

Hengwei Testing Technology (Huizhou) Co., Ltd.



HengWei Testing Technology (Huizhou) Co., Ltd.

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Section 2 – Hazard identification

Emergency Overview: Contains high pressure gas: may explode when exposed to heat.

GHS labeling elements, including precautionary statements

Hazard type pictogram:



Signal word: Warning

Hazard statement: H280 is packed with high pressure gas; it may explode if heated

Precautionary statements

Precautionary measures: No data

Incident response: No data

Safe storage: No data

Disposal: No data

Physical and chemical hazards: high-pressure gas inside; may explode in heat.

Section 3 – Composition/Information on Ingredients

The difference between the single product and mixture: Single product

Chemical Name:

Chemical Formula	Concentration(%)	CAS NO.
CARBON DIOXIDE	100	124-38-9

Section 4 – First-aid measures

Inhalation: Disengage from exposure. If breathing is difficult, give oxygen. If respiratory arrest, perform CPR immediately. Seek medical attention

Skin contact: Immediately remove contaminated clothing and rinse thoroughly with soapy water and water. Seek medical attention.

Eye contact: Immediately separate eyelids and rinse thoroughly with running water or saline. Seek medical attention.

Ingestion: Rinse mouth and do not induce vomiting. Seek immediate medical attention.

Section 5 - Fire Fighting Measures

Extinguishing agents: Use water spray, dry powder, foam or carbon dioxide extinguishing agents to extinguish the fire.

Avoid using direct running water to extinguish the fire, which may cause splashing of combustible liquids and spread the fire.

Special hazards: No information available.

Firefighting precautions and protective measures: Firefighters must wear air-carrying breathing apparatus and full-body firefighting suits to extinguish the fire upwind.

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Move the container from the fire to the open area as far as possible.

If the container in the fire scene has changed color or made a sound from the safety relief device, it must be evacuated immediately.

Isolate the accident scene and prohibit the entry of unrelated personnel. Take in and dispose of fire water to prevent pollution of the environment.

Section 6 –Accidental release measures

Worker protective measures, protective equipment and emergency disposal procedures.

It is recommended that emergency response personnel wear gas-carrying respirators, anti-static clothing, and rubber oil-resistant gloves.

Contact with or across the spill is prohibited.

Ground all equipment used during operation.

Disconnect the source of the spill if possible.

Eliminate all sources of ignition.

Delineate a cautionary area based on the area affected by liquid flow, vapor or dust dispersion, and evacuate extraneous personnel to a safe area from the side and upwind direction.

Environmental protection measures.

Contain spills to avoid contaminating the environment. Prevent spills from entering sewers, surface water and groundwater.

Reception and removal methods of spilled chemicals and disposal materials used.

Small spills: Collect spilled liquid in a sealable container if possible.

Absorb with sand, activated carbon or other inert materials and move to a safe place. Flushing into sewers is prohibited.

Large spills: Construct an embankment or dig a pit to contain it. Seal drainage pipes.

Cover with foam to inhibit evaporation. Transfer to tanker or special collector with explosion-proof pump, recycle or transport to waste disposal site.

Section 7 –Handling and storage

Operating Precautions.

Prevent static charge build-up (e.g. by grounding).

Operators should be specially trained and strictly follow the operating procedures.

Operation and disposal should be carried out in places with local ventilation or full ventilation facilities.

Avoid eye and skin contact and inhalation of vapors.

See Part 8 for individual protective measures.

Keep away from fire and heat sources, no smoking in the workplace.

Use explosion-proof ventilation systems and equipment.

If tanking is required, the flow rate should be controlled and grounded to prevent static build-up.

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Avoid contact with forbidden substances such as oxidizers (see Part 10 for forbidden substances).

Handle gently to prevent damage to packaging and containers.

Emptying the container may leave harmful substances.

Wash your hands after use and prohibit eating and drinking in the workplace.

Equip with appropriate variety and quantity of fire-fighting equipment and spill emergency treatment equipment.

Storage precautions: Store separately from strong oxidizers, strong bases, metals and food and feed. See chemical hazards. Keep cool. Strictly sealed. Ventilate along the ground.

Section 8 – Exposure controls/personal protection

Occupational exposure limits: China: PC-TWA: 9000mg/m³; PC-STEL: 18000mg/m³ USA

(ACGIH) : TLV-TWA: 5000ppm; TLV-STEL 30000ppm

Biological limits: No information available

Monitoring methods: GBZ/T 160.1 ~ GBZ/T 160.81-2004 Determination of toxic substances in workplace air (series of standards), EN 14042 Workplace air Guidance on procedures for assessing exposure to chemical or biological agents

Engineering controls.

Prevent the generation of smoke clouds! Strict management of the work environment!

Separation of the workplace from other workplaces is recommended.

Workplace is recommended to be separated from other workplaces. Operate confined to prevent leakage.

Strengthen ventilation.

Set up automatic alarm devices and accident ventilation facilities. Set up emergency evacuation channels and necessary lagging danger areas.

Set up red zone warning lines, warning signs and Chinese warning instructions, and set up communication and alarm systems.

Provide safety showers and eyewash equipment.

Individual protective equipment.

Respiratory protection: take ventilation, local exhaust ventilation or respiratory protection.

Hand protection: protective gloves, protective clothing.

Eye protection: Wear safety glasses or glasses protection combined with respiratory protection.

Skin and body protection: Wear toxic permeation resistant overalls.

Section 9 – Physical and chemical properties

Appearance: Gases

Color: Colorless

Odour: Smelly

Ignition temperature : Not available

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PH-value : Not available

Change in condition

Melting point/Freezing point : -78.5 (sublimation)

Initial boiling point and boiling range : -56.6 (0.52MPa)

Flash point : Not available

Flammability (solid, gas): Not available

Auto-ignition temperature:Not available

Decomposition temperature : Not available

Self-igniting : Product is not selfigniting.

Explosive properties: Not available

Explosion limits

Lower: Not available

Upper: Not available

Oxidising properties: Not available

Vapour pressure :Not available

Density : 1.977g/L (0℃, 101.325kPa) (gaseous state)

Relative density: Not available

Vapour density: Not available

Evaporation rate: Not available

Solubility in / Miscibility with water: <0.05% (22.9℃)

Partition coefficient: n-octanol/water : Not available

Viscosity Dynamic: Not available

Kinematic : Not available

Section 10 –Stability and reactivity

Stability: The product is stable when stored and used at normal ambient temperature.

Hazardous Reactions: No information available

Conditions to avoid contact: Electrostatic discharge, heat, humidity, etc.

Prohibited Compound: No information available

Hazardous Decomposition Products: No information available

Section 11 –Toxicological information

Acute toxicity

Oral: No data available

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation: No data available

Serious eye damage/irritation: No data available

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Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

Reproductive toxicity: No data available

STOT-single exposure: No data available

STOT-repeated exposure: No data available

Aspiration hazard: No data available

Section 12 – Ecological information

Toxicity

Toxicity to fish: C50; Species: / *Oncorhynchus mykiss* / (Rainbow trout) ; Concentration: 240 mg / L for 1 hour / Conditions of bioassay not specified in source

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Section 13 – Disposal considerations

Waste chemicals: Dispose of in accordance with relevant national and local regulations, or contact the factory or manufacturer to determine the disposal method.

Contaminated packaging: Return container to manufacturer or dispose of in accordance with national or local regulations

Disposal Notes: Please refer to relevant national and local regulations before disposal

Section 14 – Transport information

UN-Number

ADR/RID/ADN, IMDG, IATA : UN 1013

UN proper shipping name

ADR/RID/ADN, IMDG, IATA : CARBON DIOXIDE

Transport hazard class(es)

ADR/RID/ADN, IMDG, IATA : 2.2

Section 15 – Regulatory information

Regulatory information: ISO 11014-2009 Safety data sheets for chemical products - Contents and sequence of parts.

Regulation (EC) No. 1272/2008 Classification, labelling and packaging of substances and mixtures.

Section 16 – Other information

16.1 Release record

Date of issue / Date of revision : 2024.12.28

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===== **END OF REPORT** =====

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