

SDS# GGC-12, GGC-6  
Date: August 2015

Total Pages: 8

# Gallo Gun Cartridges

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Carbon Dioxide Gas, Compressed, Cartridge  
Catalog Number: GGC-12, GGC-6  
Manufactured by: DiversiTech Corporation  
6650 Sugarloaf Parkway  
Duluth, GA, 30097  
Information Phone No.: 1+678.542.3600  
EMERGENCY Phone No.: 1 800.255.3924 Chem-Tel (Chemical Emergencies)  
SDS DATE REVISED: 08/13/2015

## SECTION 2. HAZARDOUS IDENTIFICATION

### GHS Classification:

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:  
Information concerning particular hazards for human and environment:

Not applicable.  
Not applicable.

Label Elements:



Signal Word: Warning!

#### Hazard Statement(s)

H280 Contains gas under pressure; may explode if heated.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008  
The substance is classified and labelled according to the CLP regulation.

#### Precautionary Statement(s)

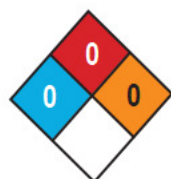
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
P410+P403 Protect from sunlight. Store in a well-ventilated place.

#### Hazard description:

WHMIS-symbols: A - Compressed gas

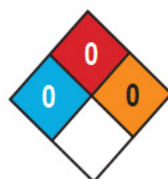
#### NFPA & HMIS III Ratings (scale 0 - 4):

NFPA



Health: 0  
Flammability: 0  
Reactivity: 0

HMIS III®



Health: 0  
Flammability: 0  
Reactivity: 0

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## SECTION 2. HAZARDOUS IDENTIFICATION (cont.)

### HMIS Long Term Health Hazard Substances

Substance is not listed.

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

## SECTION 3. HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS No.	% or Range	Specific Hazards
Carbon Dioxide	124-38-9		

### Identification number(s)

EC number: 204-696-9

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General information:

Take affected persons out into the fresh air. Provide oxygen treatment if affected person has difficulty breathing.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** In cases of frostbite, rinse with plenty of water. Do not remove clothing. Seek immediate medical advice.

**After eye contact:** Rinse opened eye for several minutes under running water. Remove contact lenses if worn, if possible. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** Unlikely route of exposure. Seek immediate medical advice.

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

Coughing

Breathing difficulty

Dizziness

Cyanosis

Unconsciousness

#### Hazards

Danger of convulsion.

Danger of impaired breathing.

### 4.3 Indication of any immediate medical attention and special treatment needed

If necessary oxygen respiration treatment.

## SECTION 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: None.

### 5.2 Special hazards arising from the substance or mixture

Danger of receptacles bursting because of high vapour pressure when heated.

### 5.3 Advice for firefighters

#### Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

#### Additional information

Cool endangered receptacles with water spray.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions

#### Protective equipment and emergency procedures

Protect from heat.

### 6.2 Environmental precautions

No special measures required.

### 6.3 Methods and material for containment and cleaning up

Allow to evaporate.

### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling No special precautions are necessary if used correctly.

#### Information about fire - and explosion protection

##### Pressurized container:

Protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage:

##### Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

##### Information about storage in one common storage facility:

Store away from foodstuffs.

##### Further information about storage conditions:

Keep container tightly sealed.

Store receptacle in a well ventilated area.

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

### 7.3 Specific end use(s):

No further relevant information available.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7

### 8.1 Control parameters

#### Ingredients with limit values that require monitoring at the workplace:

##### 124-38-9 carbon dioxide

OELV (EU)	9000 mg/m , 5000 ppm
PEL(USA)	9000 mg/m , 5000 ppm
REL (USA)	Short-term value: 54,000 mg/m , 30,000 ppm Long-term value: 9000 mg/m , 5000 ppm
TLV (USA)	Short-term value: 54,000 mg/m , 30,000 ppm Long-term value: 9000 mg/m , 5000 ppm
EL (Canada)	Short-term value: 15000 ppm Long-term value: 5000 ppm



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## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION (cont.)

**DNELs** No further relevant information available.

**PNECs** No further relevant information available.

### Additional information:

The lists valid during the making were used as basis.

### 8.2 Exposure controls

#### Personal protective equipment:

#### General protective and hygienic measures:

Wash hands before breaks and at the end of work.

#### Respiratory protection:

Not necessary if room is well-ventilated.

Use suitable respiratory protective device when high concentrations are present.

Use suitable respiratory protective device in case of insufficient ventilation.

#### Gloves:

Gloves should provide protection from freezing temperatures.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Material of gloves** The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Penetration time of glove material** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### For the permanent contact gloves made of the following materials are suitable:

Strong material gloves

#### Eye protection:

Contact lenses should not be worn.

#### Glasses:

#### Body protection:

Not required.

#### Limitation and supervision of exposure into the environment

No special requirements.

#### Risk management measures

See Section 7 for additional information.

No special requirements.



## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance:

Compressed liquefied gas

#### Odor:

Odorless

#### Odor Threshold:

Not Determined

#### pH value:

Not Available

#### Change in Condition

#### Melting Point (Pour Point):

56,6 °C (-70 °F) (-69,9 °F)(Triple Point)

#### Boiling Point:

-78 °C (-108 °F) (-108 °F)(1 atm/101.3 kPa)

#### Flash Point:

Not available

#### Flammability(solids, gaseous):

Product is not flammable

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES (cont.)

Auto/Self-ignition temperature:	Not Determined
Decomposition temperature:	Not Determined
Self-igniting:	Product is not self-igniting
Danger of explosion:	Product does not present an explosion hazard
<b>Explosion limits</b>	
Lower:	Not Determined
Upper:	Not Determined
Vapour pressure at 20 °C (68 °F):	5730 kPa
Density at 20 °C (68 °F):	0,00197 g/cm (0,016 lbs/gal) (as gas at 1 atm)
Relative density	Not Determined
Vapour density	Not Determined
Evaporation rate	Not Applicable
Solubility in / Miscibility with water at 20 °C (68 °F):	2000g/l
Partition coefficient (n-octanol/water):	Not determined.
<b>Viscosity</b>	
Dynamic:	Not Determined
Kinematic:	Not Determined

### 9.2 Other information

No further relevant information available.

## SECTION 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

### 10.2 Chemical stability

#### Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

### 10.3 Possibility of hazardous reactions

Reacts with alkali (lyes).

Reacts with water.

Danger of receptacles bursting because of high vapour pressure when heated.

### 10.4 Conditions to avoid

No further relevant information available.

### 10.5 Incompatible materials

No further relevant information available.

### 10.6 Hazardous decomposition products

Possible in traces.

Carbon monoxide

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity:

LD/LC50 values relevant for classification: None.

Primary irritant effect:

**On the skin:** No irritant effect.

**On the eye:** No irritating effect.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information:** Asphyxiant gas. International

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## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Aquatic toxicity:** No further relevant information available.

### 12.2 Persistence and degradability

No further relevant information available.

### 12.3 Bioaccumulative potential

Does not accumulate in organisms.

### 12.4 Mobility in soil

No further relevant information available.

### Additional ecological information:

**General notes:** Generally not hazardous for water

### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

### 12.6 Other adverse effects

No further relevant information available.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Recommendation

Hand over to hazardous waste disposers. Can be disposed of with household garbage with prior chemical-physical or biological treatment following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### Uncleaned packaging:

#### Recommendation:

Disposal must be made according to official regulations.

#### Recommended cleansing agents:

Water, if necessary together with cleansing agents.

## SECTION 14. TRANSPORTATION INFORMATION

This product is eligible to ship as Limited Quantity by ground and ocean.

### 14.1 UN-Number

DOT, ADR, IMDG, IATA UN1013

### 14.2 UN proper shipping name

DOT, IMDG, IATA Carbon Dioxide  
ADR 1013 Carbon Dioxide

### 14.3 Transport hazard class(es)

#### DOT



Class  
Label

2 Gases  
2

#### ADR



Class  
Label

2.2A Gases  
2.2

#### IMDG, IATA



Class  
Class

2 Gases  
2

### 14.4 Packing group

DOT, ADR, IMDG, IAT Not Regulated



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## SECTION 14. TRANSPORTATION INFORMATION (cont.)

### 14.5 Environmental hazards:

Marine pollutant: No

**14.6 Special precautions for user** Warning: Gases

Danger code (Kemler): 20

EMS Number: F-C, S-V

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not Applicable

### Transport/Additional information:

#### ADR

Limited quantities (LQ) 120 ml

Transport category 3

Tunnel restriction code C/E

UN "Model Regulation": UN1013, Carbon Dioxide, 2.2

## SECTION 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### United States (USA)

##### SARA

**Section 355 (extremely hazardous substances):** Substance is not listed

**Section 313 (Specific toxic chemical listings):** Substance is not listed

**TSCA (Toxic Substances Control Act):** Substance is listed

##### Proposition 65 (California):

**Chemicals known to cause cancer:** Substance is not listed

**Chemicals known to cause reproductive toxicity for females:** Substance is not listed

**Chemicals known to cause reproductive toxicity for males:** Substance is not listed

**Chemicals known to cause developmental toxicity:** Substance is not listed

##### Carcinogenic Categories

**EPA (Environmental Protection Agency):** Substance is not listed

**IARC (International Agency for Research on Cancer):** Substance is not listed

**TLV (Threshold Limit Value established by ACGIH):** Substance is not listed

**NIOSH-Ca (National Institute for Occupational Safety and Health):** Substance is not listed

#### Canada

**Canadian Domestic Substances List (DSL):** Substance is listed

**Canadian Ingredient Disclosure list (limit 0.1%):** Substance is listed

#### Other regulations, limitations and prohibitive regulations

**Substances of very high concern (SVHC) according to REACH, Article 57:** Substance is not listed

### 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

## SECTION 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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## SECTION 16. OTHER INFORMATION (cont.)

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Press. Gas L: Gases under pressure: Liquefied gas