

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

# Drain Gun SWOOSH 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)

## SECTION 2. HAZARDOUS IDENTIFICATION

### GHS Classification:

#### 2.1 Classification of the substance or mixture

Gases under pressure Category: Compressed Gas

**Classification according to Regulation (EC) No. 1272/2008 (CLP)**

#### 2.2 Label elements



**Signal Word:** Warning!

#### Hazard Statement(s)

H280 Contains gas under pressure; may explode if heated.

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.

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

PBT: Not applicable.  
vPvB: Not applicable.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS No.	% or Range	Specific Hazards
Carbon Dioxide	124-38-9	100	H280: Contains gas under pressure

#### Identification number(s)

EC number: 204-696-9

# Drain Gun SWOOSH Cartridges

## 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.

## 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.

# Drain Gun SWOOSH Cartridges

## 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**

<b>OELV (EU)</b>	9000 mg/m <sup>3</sup> , 5000 ppm
<b>PEL(USA)</b>	9000 mg/m <sup>3</sup> , 5000 ppm
<b>REL (USA)</b>	Short-term value: 54,000 mg/m <sup>3</sup> , 30,000 ppm Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm
<b>TLV (USA)</b>	Short-term value: 54,000 mg/m <sup>3</sup> , 30,000 ppm Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm
<b>EL (Canada)</b>	Short-term value: 15000 ppm Long-term value: 5000 ppm

**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.

# Drain Gun SWOOSH Cartridges

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

### 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

<b>Appearance:</b>	Compressed liquefied gas
<b>Odor:</b>	Odorless
<b>Odor Threshold:</b>	Not Determined
<b>pH value:</b>	Not Available
<b>Change in Condition</b>	
<b>Melting Point (Pour Point):</b>	56,6 °C (-70 °F) (-69.9 °F)(Triple Point)
<b>Boiling Point:</b>	-78 °C (-108 °F) (-108 °F)(1 atm/101.3 kPa)
<b>Flash Point:</b>	Not available
<b>Flammability(solids, gaseous):</b>	Product is not flammable
<b>Auto/Self-ignition temperature:</b>	Not Determined
<b>Decomposition temperature:</b>	Not Determined
<b>Self-igniting:</b>	Product is not self-igniting
<b>Danger of explosion:</b>	Product does not present an explosion hazard
<b>Explosion limits</b>	
<b>Lower:</b>	Not Determined
<b>Upper:</b>	Not Determined
<b>Vapour pressure at 20 °C (68 °F):</b>	5730 kPa
<b>Density at 20 °C (68 °F):</b>	0,00197 g/cm <sup>3</sup> (0,016 lbs/gal) (as gas at 1 atm)
<b>Relative density</b>	Not Determined
<b>Vapour density</b>	Not Determined
<b>Evaporation rate</b>	Not Applicable
<b>Solubility in / Miscibility with water at 20 °C (68 °F):</b>	2000g/l
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity</b>	
<b>Dynamic:</b>	Not Determined
<b>Kinematic:</b>	Not Determined

### 9.2 Other information

No further relevant information available.

# Drain Gun SWOOSH Cartridges

## 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

## 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.

# Drain Gun SWOOSH Cartridges

## 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

### 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

# Drain Gun SWOOSH Cartridges

## 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.

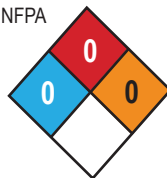
SDS DATE REVISED: 11/05/2015

### 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

### HMIS Long Term Health Hazard Substances

Substance is not listed.

### 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

## Drain Gun SWOOSH Cartridges

### 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