MSDS

(Posted 9/12/2012)

The attached MSDS supersede all other MSDS for this product. Please file accordingly.

VENDOR: **DIVERSITECH A490-80**

STOCK#	MFG#/DESCRIPTION
H26-165	GGC-12 SWOOSH CO2 REPLACEMENT CARTRIDGE 12PK

Charles Gallo Swoosh Cartridges

MSDS# GGC-12
May 2012 4 Total Pages

1. PRODUCT AND COMPANY IDENTIFICATION
Product Name: Charles Gallo Swoosh Cartridges

Manufactured by: Diversitech
6650 Sugarloaf Parkway, Duluth, GA 30097
Phone: 800-995-2222 (Product Information)
Phone: 800-255-3924 (CHEM-TEL, Chemical Emergencies Only)
Revised: 05/25/2012
Prepared By: Wyatt Coleman

2. HAZARDS IDENTIFICATION
Emergency Overview: Colorless odorless gas. Contact with desublimed solid may cause frostbite. This product is nonflammable. Breathing high concentrations
of vapors may produce drowsiness and a headache.
Potential Health Effects:
Eyes: Contact with desublimed solid may cause frostbite.
Skin: Contact with desublimed solid may cause frostbite
Ingestion: Unlikely. Contact with desublimed solid may cause frostbite.
Inhalation: High concentrations of vapors in immediate area can displace oxygen and can cause dizziness and unconsciousness. Use with adequate ventilation.
Pre-Existing Medical Conditions Aggravated by Exposure: Heart, lung, skin, eye.

3. COMPOSITION / INFORMATION INGREDIENTS

INGREDIENT	CAS No.	EINECS No.	%	Hazard Symbol	Risk Phrases
Carbon dioxide	124-38-9	204-696-9	~100	None	None

4. FIRST-AID MEASURES
Eyes: Treat for frostbite immediately. Have eyes examined and tested by medical personnel if irritation develops or persists.
Skin: Treat for frostbite immediately. Get medical attention if irritation develops or persist.
Ingestion: Not a possible route of entry.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5. FIREFIGHTING MEASURES
LEL/UEL: Nonflammable
Extinguishing Media: Use extinguishing media as suitable for the combustible materials involved in the fire.

Charles Gallo Swoosh Cartridges

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus (pressure demand, MSHA/NIOSH approved or equivalent) and full protective gear.
Unusual Fire and Explosion Hazards: Contents under pressure. Do not store near heat sources.

6. ACCIDENTAL RELEASE MEASURES

Large Spills: Shut off leak if possible and safe to do so. Wear self-contained breathing apparatus and appropriate personal protective equipment. Allow condensed solid to sublime.
Small Spills: Allow condensed solid to sublime.

7. HANDLING AND STORAGE

Avoid prolonged or repeated contact with eyes, skin, and clothing. Wash hands before eating. Protect cartridges from abuse, and extreme temperatures. Keep this product out of the reach of children. Do not puncture cartridge unless it is contained in an approved appliance. Do not attempt to refill spent cartridges. Maintain a well-ventilated work area; use with adequate ventilation. Avoid breathing product vapor or mist. Store in a cool dry place, away from heat, sparks, flame and direct sunlight.

8. EXPOSURE CONTROLS /PERSONAL PROTECTION

Exposure Guidelines:

CHEMICAL NAME	ACGIH TWA	OSHA PEL	ACGIH STEL
Carbon Dioxide	5,000 ppm	5,000 ppm	30,000 ppm

Work/Hygienic Practices: Good general ventilation should be sufficient to control airborne levels. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Wear safety glasses with side shields (or goggles) and rubber, neoprene or other chemically resistant gloves if there is documented evidence of compatibility when handling this material.

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Appearance: Colorless gas
Odor: Slight ethereal
Odor threshold: No data for mixture
pH: No data for mixture
Melting Point: No data for mixture
Boiling Point: No data for mixture
Flash Point (Method Used): No data for mixture
Evaporation Rate (Ether = 1): >1 (Butyl acetate=1)
Flammability (Solid, gas): No data for mixture
Upper/lower flammability or explosive limits: No data for mixture
Vapor pressure (mm Hg): 856 psia @ 70oF
Vapor Density (Air=1): 1.65 @ 70°F (Air = 1)
Specific gravity (H2O = 1): 1.53
Solubility in water: Very Soluble
Partition coefficient: No data for mixture
Auto-ignition temperature: No data for mixture
Decomposition temperature: No data for mixture

Charles Gallo Swoosh Cartridges

10. STABILITY AND REACTIVITY

Stability: This product is stable.
Conditions to Avoid: None known
Incompatibility: None known
Products of Decomposition: None known
Hazardous Polymerization: Will not occur
Conditions to Avoid: NA

11. TOXICOLOGICAL INFORMATION

Inhalation:
Carbon Dioxide: LCLo/human 9ppm/5 min
Cancer Information: No ingredients listed as human carcinogens by NTP or IARC
Reproductive effects: none
Teratogenic effects: none
Mutagenic effects: none

12. ECOLOGICAL INFORMATION

Environmental Impact Information: No sufficient effect known from discharge of gas or desublimed solid.
Environmental Impact Data
REPORTING (percent by weight):
CFC 0.0% VOC 0.0%; HFC 0.0% HFC 0.0%; Cl. Solv. 0.0% ODP 0.00
US regulations require reporting spills of this material that could reach any surface waters. The toll free number for the US Coast Guard National Response
Center is: 800-424-8802.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations.

14. TRANSPORT INFORMATION

UN Number: UN1013
UN Proper Shipping Name: Carbon dioxide
Transport Hazard Class(es): Packing group: 2.2
Environmental Hazards: Not a marine pollutant
ADR/RID Transport Information
ADR/RID Class 2.2
ADR/RID Packing Group None Allocated
IMDG Hazard Class 2.2
IMDG Packing Group None Allocated
ADNR Class 2.2
ADNR Item None Allocated

Charles Gallo Swoosh Cartridges

IATA Hazard Class 2.2
IATA Packing Group None Allocated
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable
EmS: F-C, S-V

15. REGULATORY INFORMATION

SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community
Right-To-Know Act of 1986 (40 CFR 372): None

TOXIC SUBSTANCES CONTROL ACT (TSCA): All ingredients of this product are listed on the TSCA Inventory.

WHMIS: Class A

This product is classified according to the hazard criteria of the CPR, and the MSDS contains all of the information required by the CPR.

EEC:

Supply Classification: Not Listed

Hazard Pictogram: None

Risk Phrases: R-20 Harmful by Inhalation

Safety Phrases:

S-2 Keep out of reach of children
S-47 Keep at temperatures not exceeding 49 degrees C
S-57 Refer to supplier for information on recycling

16. OTHER INFORMATION

NFPA and HMIS Codes:

	NFPA	HMIS
Health	1	1
Flammability	0	0
Reactivity	0	0
Personal Protection - B		

Do not puncture or incinerate containers. Normal ventilation for standard manufacturing practices is usually adequate. Local exhaust should be used whenlarge amounts are released.

REFERENCES: 29 CFR 1910.1200 40 CFR 300-700 ANSI Z400.1-1998; EEC Dangerous Substances Classification, Packaging and Labeling List (Annexes
1, 2, 3 & 4)

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