



Beno J. Gundlach Co., Inc.
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MATERIAL SAFETY DATA SHEET

GUNDLACH GC27 19OZ. AEROSOL GRANITE COUNTERTOP CLEANER & POLISH

Section I - Product and Company Identification

Product Name	Gundlach Granite Countertop Cleaner & Polish
Chemical Family	Isopropyl Alcohol
Emergency Infotrac Number	800-535-5053
Date Prepared	November 15, 2007
Prepared By	Beno J. Gundlach Co., Inc.

Section II - Hazardous Information

Emergency Overview	CONTENTS UNDER PRESSURE. Aerosol. Pressurized container may explode when exposed to heat or flame. Can cause adverse reproductive effects. Prolonged exposure may cause chronic effects.
Potential Health Effects	
Skin	This product maybe harmful if absorbed through the skin. Prolonged or repeated contact can result in defatting and drying of the skin which result in skin irritation and dermatitis (rash).
Inhalation	Intentional misuse by concentration and inhaling this product can be harmful and/or fatal. Prolonged inhalation may be harmful.
Ingestion	Exposure by ingestion of an aerosol is unlikely. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. May cause delayed lung damage.
Target organs	Kidney 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged and may cause blood damage. These effects have not been observed in humans.
Chronic Effects	Unconsciousness. Liver injury may occur. Kidney injury may occur. May cause central nervous system disorder (e.g. narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause delayed lung damage. Can cause adverse reproductive effects. Pregnant women or women of child-bearing age should not be exposed to this product.

Section III - Composition/Information on Ingredients

COMPONENTS	CAS #	WEIGHT (%)
Ethyl Alcohol	64-17-5	15-20%
2-Butoxyethanol	111-76-2	3-5 %
n-Butane	106-97-8	3-5 %
Non-Hazardous and other components below level		60-80%

Section IV - First Aid Information

Emergency First Aid Procedures	
Eyes	Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Remove contact lenses if able to do so. Seek medical attention if irritation develops or persists.
Skin	Remove all contaminated clothing and shoes and wipe excess from skin. Flush skin with water. Follow by washing skin with soap and water. Do not reuse clothes until cleaned.
Ingestion	DO NOT INDUCE VOMITING. Rinse mouth with water. Get medical attention immediately. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other respiratory medical device.
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.

Section V - Firefighting Measures

Flammable properties	Containers may explode when heated. Vapor or gas may spread to distant ignition sources and flash back.
Extinguishing Media	Suitable media: Large Fires: Water spray, fog, or regular foam. Small Fires: Dry Chemical, CO2, water spray, or regular foam.
Protection of Firefighters	
Protective equipment and precautions for firefighters	In the event of a fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Containers should be cooled with water to prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from the area and let fire burn.

Section VI - Accidental Release Measures

Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable.
Methods of cleaning up	Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

Section VII - Precautions for Safe Handling and Storage

Handling	Pressurized container: Do not pierce or burn, even after use. Do not handle or store near an open flame, heat, or other sources of ignition. Do not use if spray button is missing or defective. Use only with adequate ventilation. Do not get this material in contact with eyes. Do not get this material in contact with skin. Wear personal protective equipment. Avoid prolonged exposure.
Storage	Level 1 Aerosol Contents under pressure. Do not puncture, incinerate, or crush. The pressure in sealed containers can increase under the influence of heat. Avoid exposure to long periods of sunlight. Keep in an area equipped with sprinklers. Keep out of the reach of children. Use care in handling/storage.

Section VIII - Exposure Controls/Personal Protection

Exposure limits

ACIGH				
COMPONENTS	CAS #	TWA	STEL	Ceiling
Ethyl Alcohol	64-17-5	1000ppm	Not established	Not established
2-Butoxyethanol	111-76-2	20ppm	Not established	Not established
n-Butane	106-97-8	1000ppm	Not established	Not established

OSHA				
COMPONENTS	CAS #	TWA	STEL	Ceiling
Ethyl Alcohol	64-17-5	1000ppm	Not established	Not established
2-Butoxyethanol	111-76-2	50ppm	Not established	Not established

Personal protective equipment	
Eye/face protection	Wear chemical goggles.
Skin protection	Protective gloves
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Section IX - Physical and Chemical Properties

Appearance	Compressed, liquified gas.
Color	Clear, Colorless
Odor	Characteristic
Physical State	Liquid
Form	Aerosol
Flammability (HOC)	7.0852 kJ/g estimated
Flash back	No
Pressure	40-50 psig @ 70F
Solubility	Partially
Flash point	-156F (-104.4C) estimated
Boiling Point	203F (95C) estimated
Specific Gravity	0.9368 estimated
pH	9.15-10.15

Section X - Chemical Stability & Reactivity Information

Chemical stability	Risk of ignition. Stable at normal conditions.
Conditions to avoid	Heat, flames, and sparks.
Hazardous decomposition products	May include oxides of nitrogen.
Incompatible materials	Isocyanates.

Section XI - Toxicological Information

Acute Effects	Acute LD50: 5670 mg/kg estimated, Rat, Dermal
Sensitization	Acute LC50; 53 mg/l/4h estimated, Rat, Inhalation
Reproductive Effects	Hazardous by OSHA criteria. Possible reproductive hazard. Can cause adverse reproductive effects - such as birth defects, miscarriages, and infertility.
Teratogenicity	Not expected to be hazardous by OSHA criteria

Section XII- Ecological Information

Ecotoxicity	LC50, 22852 mg/L estimated, Fish, 96.00 hours EC50 28247 mg/L estimated, Daphnia, 48.00 hours IC50, 12207 mg/L, Algae, 72.00 Hours Components of this product have been identified as having potential environmental concerns
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Section XIII- Disposal Considerations

Waste Codes	D001: Waste Flammable material with a flash point,<140F
Disposal Information	Consult with authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

Section XIV Transportation Information

Department of Transportation (DOT) Requirements			
Proper Shipping Name	Consumer Commodity		
Hazard Class	ORM-D	Subsidiary Hazard Class	None
Packaging Exceptions	156, 306	Packaging Non Bulk	156, 306
Packaging bulk	None		

IMDG

Proper Shipping Name	AEROSOLS, flammable		
Hazard Class	2.1	UN Number	1950
Packaging Exceptions	LTD QTY	Labels required	None
Transport Category	2		

IATA

Proper Shipping Name	Aerosols, flammable		
Hazard Class	2.1	UN Number	1950
Packaging Exceptions	LTD QTY	Labels required	2.1

Section XV Regulatory Information

US Federal regulations		This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200
U.S. - CERCLA/SARA - Section 313 - Emission Reporting		
2-Butoxyethanol	111-76-2	1.0% de minimis concentration (applies to R-(OCH2CH2)n-OR’, where n= 1,2, or 3, R=alkyl C7 or less, or R= phenyl or alkyl substituted phenyl, R’ = H or alkyl C7 or less, or OR’ consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate, Chemical Category N230)
Occupational Safety and Health Administration (OSHA)		
29 CFR 1910.1200 hazardous chemical	Yes	
CERCLA (Superfund) reportable quantity	None	
Superfund Amendments and Reauthorization Act of 1986 (SARA)		
Hazard categories	Immediate Hazard - Yes	
	Delayed Hazard - Yes	

Hazard categories cont'd	Fire Hazard - Yes
	Pressure Hazard - Yes
	Reactivity Hazard - No
Section 302 extremely hazardous substance	No
Section 311 hazardous chemical	Yes

Inventory Status

Country(s) or region	Inventory Name	On Inventory (yes/ no)*
China	Inventory of Existing Chemical Substance in China (IECSC)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCES)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
United States & Puerto Rico	Toxic Substances Control Act (TCSA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

State Regulations

U.S. - Pennsylvania - RTK (Right to Know) List

2-Butoxyethanol	111-76-2 Present	Present
Ethyl Alcohol	64-17-5	Present
n-Butane	106-97-5	Present

Section XVI - Other Information

HMSI® ratings	Health: 1* Flammability: 2 Physical Hazard: 0
Prepared by	Regulatory Compliance