



## MATERIAL SAFETY DATA SHEET

### GUNDLACH GW09 14 OZ. AEROSOL WATER-BASED GROUT SEALER

#### Section I - Product Identity

Product Name	Gundlach Inverted Aerosol Grout Sealer
Chemical Family	Fluorophosphate Ester
CAS Registry #	Mixture
Emergency Infotrac Number	800-535-5053
Date Prepared	June 17, 2008
Prepared By	Beno J. Gundlach Co.

#### Section II - Hazardous Components/Composition Information

CHEMICAL NAME	CAS #	WEIGHT (%)	OSHA PEL TWA	ACGIH PEL TWA	NOTES
2-Butoxyethanol	111-76-2	2-5 %	50 ppm	25 ppm	
Isopropyl Alcohol	67-63-0	<3 %	400 ppm	400 ppm	
Dimethyl Ether	115-10-6	12-18 %	Not established	1000 ppm	

#### Section III - Physical and Chemical Properties

Boiling Point	Approximately 100 °C	Specific Gravity (H <sub>2</sub> O=1)	1.06
Vapor Pressure	N.D.	Vapor Density (Air=1)	N.D.
Percent Volatile By Weight	86%	Evaporation Rate (BuAc=1)	N.D.
Solubility in Water	Dispersible	Volatile Organic Content	3%
Appearance and Odor	Amber solution (Foamy)		

#### Section IV - Firefighting Measures

Flash Point (Method Used)	<140°F estimated (Closed Cup)			
Autoignition Temperature	Not established.			
Explosive Limits	Lower	0%	Upper	6.1%
Extinguishing Media	Alcohol foam, CO <sub>2</sub> , Dry Chemical, Water Fog.			
Special Firefighting Procedures	Water spray may be ineffective, but water spray must be used to cool containers exposed to heat or fire to prevent pressure build-up.			
Unusual Fire and Explosion Hazard	Closed containers may explode due to the pressure build-up from extreme heat or fire. Aerosol spray is extremely flammable.			
Combustion Products	Carbon dioxide, carbon monoxide, trace amounts of hydrogen fluoride.			
Firefighting Equipment	Self-contained breathing apparatus should be used if product is involved in fire.			

## Hazard Ratings

NFPA Rating (based on Standard 704)	(4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Insignificant)
Health	1
Flammability	1
Physical Hazard	0

### Section V - Stability & Reactivity

Stability	Stable	XX	Unstable	
Conditions to Avoid	Elevated temperatures (>110°F) and Freezing.			
Incompatibilities	Oxidizers, metalchlorides and acids.			
Hazardous Decomposition or By-Products	May produce CO, HF.			
Hazardous Polymerization	May Occur		May Not Occur	XX

### Section VI - Health Hazard Data

Primary Routes of Entry	Inhalation	Yes	Dermal	Yes	Ingestion	Yes
Acute Health Hazard	N.D.					
Chronic Health Hazard	N.D.					
Carcinogenity	N.D.					
NTP?	No	IARC Monograph?	No	OSHA Regulated?	No	
Signs and Symptoms of Exposure						
Skin Contact	May be harmful.					
Eye Contact	Causes irritation.					
Ingestion	May be harmful if swallowed.					
Inhalation	May be harmful if inhaled.					
Medical Condition Generally Aggravated by Exposure	No information available.					
Emergency First Aid Procedures						
Eyes	Flush eyes with water for at least 15 minutes. Get medical attention.					
Skin	Wash with soap and water.					
Ingestion	Do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconcious person. Call a physician.					
Inhalation	Immediately remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Please note: Symptoms may be delayed; prompt medical attention may be required. Call a physician.					

### Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case the Material is Released or Spilled	Soak up with sawdust, sand, oil dry or other absorbent material.
Waste Disposal Method	As in accordance with EPA and local regulations.
Storage Requirements	Do not store above 120°F (49°C). Do not store or use near heat, sparks or flame.
KEEP OUT OF REACH OF CHILDREN.	

### Section VIII - Special Precautions

Storage and Handling Conditions	Store at temperatures between 40°F to 95°F. Store in a tightly closed container. Store in a well ventilated area. Store away from oxidizing agents, sources of heat, direct sunlight or rain. No smoking in area of storage. Use soft water (greater than 25 ppm total hardness but less than 80 ppm total hardness) when preparing treating solution. <b>***Agitate contents of container before using***</b>
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## Section IX - Exposure Controls / Personal Protection

Engineering Controls	Recommend an approved mechanical particulate filter to remove any airborne overspray. In restricted areas with poor ventilation, use a NIOSH-approved Organic Cartridge Respirator. For concentrations above the PEL, use a positive air-supplied respirator.
Eye Protection	Use chemical safety goggles and/or a full face shield where splashing is possible. Contact lenses should not be worn.
Skin Protection	Test data indicates the best protection is provided by neoprene, nitrile and natural rubber gloves.
Ventilation	ALL APPLICATION AREAS SHOULD BE ADEQUATELY VENTILATED IN ORDER TO KEEP THE ITEMS IN SECTION 2 BELOW THEIR EXPOSURE LIMITS.
Respiration	In restricted areas with poor ventilation, use a NIOSH-approved Organic Cartridge Respirator.

## Section X - SARA Title III

SECTION 313 SUPPLIER NOTIFICATION	This product contains the following toxic chemicals subject to the reporting requirements of SECTION 331 of the EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 and of 40 CFR 371.	
CAS #	Chemical Name	Percent by Weight
111-76-2	2-Butoxyethanol	2%
67-63-0	Isopropyl Alcohol	2%
THIS INFORMATION MUST BE INCLUDED IN ALL MSDS'S THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.		

## Registration Information

Canadian DSL Listed

**THE INFORMATION AND RECOMMENDATIONS HEREIN, ARE TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE.  
NO WARRANTY, EXPRESS OR IMPLIED, IS MADE OR INTENDED.**

## Section XI 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	None

## Section XII 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-(OCH <sub>2</sub> CH <sub>2</sub> ) <sub>n</sub> -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)
Isopropyl Alcohol	67-63-0	1.0% de minimis concentration (only if manufactured by the strong acid processing supplier notification)
<b>Occupational Safety and Health Administration (OSHA)</b>		
29 CFR 1910.1200 hazardous chemical		Yes
CERCLA (Superfund) reportable quantity		None
<b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b>		
Hazard categories		Immediate Hazard - Yes
		Delayed Hazard - No
Hazard categories cont'd		Fire Hazard - Yes
		Pressure Hazard - Yes
		Reactivity Hazard - No
Section 302 extremely hazardous substance		No
Section 311 hazardous chemical		Yes
<b>Inventory Status</b>		
<b>Country(s) or region</b>	<b>Inventory Name</b>	<b>On Inventory (yes/no)*</b>
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).		
<b>State Regulations</b>		
<b>U.S. - Pennsylvania - RTK (Right to Know) List</b>		
2-Butoxyethanol	111-76-2 Present	Present
Isopropyl Alcohol	67-63-0	Environmental Hazard
n-Butane	106-97-5	Present
Propane	74-98-6	Present