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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 2020/878/EU Standards

SDS Revision: 5.6

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				CT & COM					110	N				
1.1	Product Name:	GRANIT	E GOLD F	PENETRA	TING	SEAI	LER							
1.2	Chemical Name:	Aqueous Sol												
1.3	Synonyms:	,	60056; GG5017											
1.4	Trade Names:	Granite Gold	Penetrating Se	ealer (207-0060	02-1)									
1.5	Product Use:	Sealant												
1.6	Distributor's Name:	Granite Gold	, Inc.											
1.7	Distributor's Address:	9170 Chesap	9170 Chesapeake Drive, San Diego CA 92123 USA											
1.8	Emergency Phone:			527-3887 / -	<mark>⊦1 (800</mark>)	424-9	9300							
1.9	Business Phone / Fax:	Tel: +1 (858)	499-8933											
			2. H	AZARDS	DENT	IFIC		DN						
2.1	Hazard Identification:	Canadian WI WARNING! I COMBUSTIE	HMIS and Austr MAY BE HARM BLE LIQUID.	ralian Work Hea IFUL IF SWALI	alth and S .OWED. (afety. CAUSE	S SKI							FR 1910.1200. E IRRITATION.
2.2	Label Elements:	Classification: Acute Tox. 5; Skin Irrit. 2; Eye Irrit. 2A, Flam. Liq. 4 Hazard Statements (H): H303 – May be harmful if swallowed. H315 – Causes skin irritation. H319 – Causes serious eye irritation. H227 – Combustible liquid. Precautionary Statements (P): P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P264+P265 – Wash thoroughly after handling. Do not touch eyes. P270 – Do not eat, drink, or smoke when using this product. P280 – Wear protective gloves/ eye protection/face protection. P301+P312 – IF SWALLOWED: call a POISON CENTER/doctor. P300 – Rinse mouth. P302+P352 – IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 - Specific treatment: See section 4 of this Safety Data Sheet. P332+P317 - If skin irritation occurs: Get medical help. P337+P317 – If eye irritation persists: Get medical help. P362+P364 – Take off contaminated clothing and wash before reuse. P370+P378 – In case of fire: Use CO ₂ , halon (if permitted), dry chemical or foam to extinguish. P501 - Dispose of contents/ container to an approved waste disposal plant.												
2.3	Other Warnings:	center, who r		e from the U.S.							t a ph	ysician	or loca	l poison control
		3. C	OMPOSIT	ION & INC	GREDI	ENT	INF	ORM	ΙΑΤ	ION				
									EXPO	POSURE LIMITS IN AIR (mg/m ³)				
						ACO	GIH		NOHSC			OSHA		
						рр	om		ppm			ppm		
CHEMI	CAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	OTHER
WAT	R	7732-18-5	ZC0110000	231-191-2	60-100	NE	NE	NF	NF	NF	NE	NE	NE	
		NA	NA	NA	0.1-5	NA	ΝΔ	NE	NE	NE	ΝΔ	ΝΔ	NA	
PROF	PRIETARY				0.120			1.11	1.11	141		11/1		
			4.	FIRST AI	D ME	\SUF	RES							
4.1 First Aid: Ingestion: DO NOT INDUCE VOMITING. Contact ChemTrec at +1 (703) 527-3887 or the nearest Poison C Center or local emergency telephone number for assistance and instructions. Seek immediate m attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the aspiration.					ediate medical uce the risk of									
Eves: Flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s ensure complete flushing. If irritation persists, seek immediate medical attention. Skin: Remove contaminated clothing and wash affected areas with soap and water. If irritation persists prompt medical attention. Do not wear contaminated clothing until after it has been properly clear Avoid breathing mist/spray. Remove victim to fresh air at once. If breathing is difficult, supplemental oxygen and seek immediate medical attention. If breathing stops, perform artificial removal.				persists, seek cleaned. cult, administer										



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		4. FIRST AID MEASURES – cor	nt'd		
4.2	Effects of Exposure:	Ingestion: If product is swallowed, may cause nausea, vomiting a	nd/or diarrhea.		
		Eyes: Moderately irritating to the eyes.		-	
		Skin: This product can cause mild, transient skin irritation wit skin reactions (e.g., rashes, welts, dermatitis) upon pro			in cause allerg
		Inhalation: Vapors of this product may be irritating to the nose, the	•	•	v svstem.
4.3	Symptoms of Overexposure:	Symptoms of skin overexposure may include redness, itching, and in		1	
		cause redness, itching and watering. The product can cause allerg			
		prolonged or repeated exposure.			
4.4	Acute Health Effects:	Moderate irritation to eyes and skin near affected areas. Additionally dizziness, headaches and nausea.	high concentration	is of vapors can ca	use drowsines
4.5	Chronic Health Effects:	The material may accentuate any pre-existing dermatitis condition.			
4.6	Target Organs:	Eyes, Skin & Respiratory System.			
4.7	Medical Conditions	Persons with pre-existing skin disorders, eye problems, or impaired	HEALTH		2
	Aggravated by Exposure:	kidney function may be more susceptible to the effects of the	FLAMMABIL	ITY	0
		substance.	PHYSICAL H		0
					-
					B
			EYES SM	KIN	
		5. FIREFIGHTING MEASURE	S		
5.1	Fire & Explosion Hazards:	This product is a non-flammable liquid. When involved in a fire		ignite and	
		decompose to form toxic gases (e.g., CO, CO_2 , NO_x).	, the product may		
5.2	Extinguishing Methods:	CO ₂ , Halon (if permitted), Dry Chemical, Foam.			
5.3	Firefighting Procedures:	This product is a combustible liquid. When involved in a fire, this	product may ignite	readily and	
		decompose to produce carbon oxides.			
		First responders should wear eye protection. Structural firefighte			\sim
		protective equipment. Use a water spray or fog to reduce or direct vap in actually extinguishing a fire involving this product.	ors. water may not	be ellective	
		6. ACCIDENTAL RELEASE MEAS	URES		
6.1	Spills:	Before cleaning any spill or leak, individuals involved in spill cleanup r		ate Personal Protec	tive Equipmen
6.1	Spills:	Before cleaning any spill or leak, individuals involved in spill cleanup r CAUTION – may be slippery if spilled.	nust wear appropria		
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 2020/878/EU Standards SDS Revision: 5.6

Prep	ared to OSHA, ACC, AN	SI, NOHSC, WHMIS, GHS & 2020/878/EU Standards SDS Revision: 5.6 SDS Revision Date: 10/12/2023
	8.	EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd
8.4	Eye Protection:	Avoid eye contact. Protective eyewear that conforms to ANSI Z87.1 (or other applicable and appropriate standards) should be used when handling any chemical product.
8.5	Hand Protection:	Use gloves constructed of chemical resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact is expected.
8.6	Body Protection:	Not required under normal conditions of use. Use appropriate protective equipment (e.g., apron) as necessary to prevent or reduce exposure if frequent or prolonged contact is expected.
		9. PHYSICAL & CHEMICAL PROPERTIES
9.1	Appearance:	Clear liquid
9.2	Odor:	Slight alcohol odor
9.3	Odor Threshold:	NA
9.4	pH:	7.0-8.0
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	100 °C (212 °F) @ 760 mm Hg
9.7	Flashpoint:	>60°C and <=93°C (estimated)
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	NA
9.11	Relative Density:	1.000 @ 25 °C (77 °F)
9.12	Solubility:	Complete
9.13	Partition Coefficient (log Pow):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	NA
9.17	Other Information:	2.97% VOC
		10. STABILITY & REACTIVITY
10.1	Stability:	Stable under normal conditions of use.
10.2	Hazardous Decomposition	None known.
	Products:	
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Strong oxidizers and reducing agents.
10.5	Incompatible Substances:	Strong oxidizing agents, strong acids and bases.
		11. TOXICOLOGICAL INFORMATION
11.1	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: NO
11.2	Toxicity Data:	This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature available for some of the components of the product and is presented below: <u>Butoxyethanol</u> : LD ₅₀ (oral, rat) = 470 mg/kg; LC ₅₀ (inh-4h, rat) = 450 ppm; ACGIH – Biological Exposure Indices (BEI) 2 mg/kg
11.3	Acute Toxicity:	See Section 4.4
11.4	Chronic Toxicity:	See Section 4.5
11.5	Suspected Carcinogen:	This product contains <u>Butoxyethanol</u> and <u>Isopropyl Alcohol</u> , which are not carcinogenic to humans, but are listed as Gro 3 carcinogens by the IARC.
11.6	Reproductive Toxicity:	This product is not reported to produce reproductive toxicity in humans.
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.
	Teratogenicity:	This product is not reported to produce teratogenic effects in humans.
	Reproductive Toxicity:	This product is not reported to produce reproductive effects in humans.
11.7	Irritancy of Product:	See Section 4.2
11.8	Biological Exposure Indices:	NE
11.9	Physician Recommendations:	Treat symptomatically.



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	12. ECOLOGICAL INFORMATION					
12.1	Environmental Stability:	The components of this product will slowly degrade over time into a variety of organic compounds. Specific environmental data available for the components of this product are as follows:				
	Isopropyl Alcohol: Log K _{ow} = 0.05-0.14. Isopropyl alcohol occurs naturally; it is generated during microbial degradation plant and animal wastes. When released on land or water, it is apt to volatilize and biodegrade. The estimated half-life water is 5.4 days. Isopropyl alcohol is not expected to bioconcentrate.					
12.2	Effects on Plants & Animals:	There are no specific data available for this product.				
12.3	Effects on Aquatic Life:	There are no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life.				
	13. DISPOSAL CONSIDERATIONS					

13. DISPOSAL CONSIDERATIONS

13.1		Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, and federal laws and regulations.
13.2	Special Considerations:	NA

14. TRANSPORTATION INFORMATION

		mber, proper shipping name, hazard class & division, packing group) is shown for each mode of transpo be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.	rtation. Additional
14.1	49 CFR (GND):	NOT REGULATED 49 CFR §173.150(f)(4)	
14.2	IATA (AIR):	NOT REGULATED	
14.3	IMDG (OCN):	NOT REGULATED	
14.4	TDGR (Canadian GND):	NOT REGULATED	
14.5	ADR/RID (EU):	NOT REGULATED	
14.6	SCT (MEXICO):	NOT REGULATED	
14.7	ADGR (AUS):	NOT REGULATED	

	15. REGULATORY INFORMATION				
15.1	SARA Reporting Requirements:	This product contains Isopropanol, a substance subject to SARA Title III, section 313 reporting requirements.			
15.2	SARA TPQ:	There are no specific Threshold Planning Quantities for the components of this product.			
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.			
15.4	CERCLA Reportable Quantity:	NA			
15.5	Other Federal Requirements:	This material does not contain any hazardous air pollutants. None of the components in this product are listed as priority pollutants under the CWA. None of the components in this product are listed as toxic pollutants under the CWA.			
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List.			
15.7	State Regulatory Information:	<u>Isopropanol</u> is found on the following state criteria lists: California Proposition 65 (CA65), Massachusetts Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), Pennsylvania Right-to-Know List (PA), and Washington Permissible Exposures List (WA). <u>Butoxyethanol</u> is found on the following state criteria list: FL, MA, MN, NJ, PA and WA. No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances			
		List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI). This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to www.P65Warnings.ca.gov.			
15.8	Other Requirements:	This product is found on the following inventory lists: Australia - AICS, China – IECSC, Europe – ELINCS/EINEC, Japan – ENCS; Korea – KECI; New Zealand – NZIoC; {Philippines – PICCS; USA – TSCA.			



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	16. OTHER INFORMATION						
16.1	Other Information:	WARNING! MAY BE HARMFUL IF SWALLOWED. CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE IRRITATION. COMBUSTIBLE LIQUID. Use as directed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves/ eye protection/face protection. IF SWALLOWED: call a POISON CENTER/doctor. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment: See section 4 of this Safety Data Sheet. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use CO ₂ , halon (if permitted), dry chemical or foam to extinguish. KEEP OUT OF REACH OF CHILDREN.					
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.					
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Granite Gold's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.					
16.4	Prepared for:	Granite Gold, Inc. 9170 Chesapeake Drive San Diego, CA 92123 USA Tel: +1 (858) 499-8933 http://www.granitegold.com/					
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com					



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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number
RTECS No.	Registry of Toxic Effects of Chemical Substances Number
EINECS No.	European Inventory of Existing Commercial Chemical Substances Number
200 110.	European internety of Exering Commondar Onomioal Cabolandoo Hambor

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
IDLH	Immediately Dangerous to Life and Health
NOHSC	National Occupational Health and Safety Commission (Australia)
OSHA U.S. Occupational Safety and Health Administration	
PEL Permissible Exposure Limit	
STEL Short Term Exposure Limit	
TLV Threshold Limit Value	
TWA	Time Weighted Average

FIRST AID MEASURES:

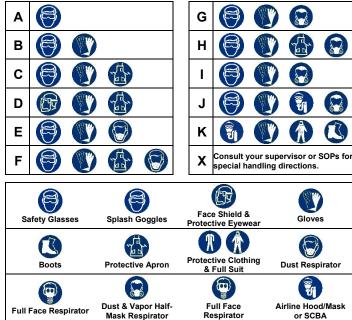
CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard	HEALTH
1	Slight Hazard	FLAMMABILITY
2	Moderate Hazard	PHYSICAL HAZARDS
3	Severe Hazard	PERSONAL PROTECTION
4	Extreme Hazard	

PERSONAL PROTECTION RATINGS:



OTHER STANDARD ABBREVIATIONS:

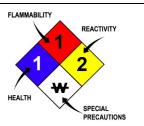
Carc	Carcinogenic			
Irrit	Irritant			
NA	Not Available			
NR	No Results			
ND	Not Determined			
NE	Not Established			
NF	Not Found			
SCBA	Self-Contained Breathing Apparatus			
Sens	Sensitization			
STOT RE	Specific Target Organ Toxicity – Repeat Exposure			
STOT SE	Specific Target Organ Toxicity – Single Exposure			

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:				
Autoignition Minimum temperature required to initiate combustion in air with no other sou Temperature of ignition				
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source			
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source			

HAZARD RATINGS:

0	Minimal Hazard	FLA
1	FLA	
2	Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	
ACD	<	
ALK		
COR	Corrosive	/
W	HEA	
OX		
TREEOII	Radioactive	



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals		
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal		
ppm	Concentration expressed in parts of material per million parts		
TDio	Lowest dose to cause a symptom		
TCLo	Lowest concentration to cause a symptom		
TD _{lo} , LD _{lo} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects		
TC, TC _o , LC _{lo} , & LC _o			
IARC	International Agency for Research on Cancer		
NTP	National Toxicology Program		
RTECS	Registry of Toxic Effects of Chemical Substances		
BCF	Bioconcentration Factor		
TLm	Median threshold limit		
log Kow or log Koc	Coefficient of Oil/Water Distribution		

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System			
DOT	U.S. Department of Transportation			
тс	Transport Canada			
EPA	U.S. Environmental Protection Agency			
DSL	Canadian Domestic Substance List			
NDSL	Canadian Non-Domestic Substance List			
PSL	L Canadian Priority Substances List			
TSCA	TSCA U.S. Toxic Substance Control Act			
EU	EU European Union (European Union Directive 67/548/EEC)			
WGK	Wassergefährdungsklassen (German Water Hazard Class)			

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	۲	٨	Ø	Ē			
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

CLP/GHS (1272/2008/EC) PICTOGRAMS:

			\Diamond					
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment