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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision Date: 4/18/2021 SDS Revision: 2.0 1. PRODUCT & COMPANY IDENTIFICATION 11 Product Name **ALL-PURPOSE CLEANER** 1.2 Chemical Name: Mixture 13 Synonyms MG0100, MG0101, MG0102, MG0103 MicroGold All-Purpose Cleaner, EPA Registration No. 1839-220-88653 1.4 Trade Names: 1.5 Product Use: All-Purpose Cleaner Distributor's Name: 1.6 Granite Gold, Inc. Distributor's Address: 17 12780 Danielson Court, Suite A, Poway, CA 92064 USA 18 Emergency Phone: CHEMTREC +1 (703) 527-3887 / +1 (800) 424-9300 Business Phone / Fax: Tel: +1 (858) 499-8933 / +1 (800) 475-7866 1 9 2. HAZARDS IDENTIFICATION Hazard Identification: 2.1 This product is classified as a HAZARDOUS SUBSTANCE but not as DANGEROUS GOODS according to the classification criteria of WHSR and ADG Code (Australia). This product is classified as hazardous according to the OSHA 2012 Hazardous Communication 2012 Final Rule. WARNING! CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE IRRITATION. TOXIC TO AQUATIC LIFE. HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS. Classification: Skin Irrit. 2, Eye Irrit. 2A; Aq. Acute 2, Aq. Chronic 3 2.2 Label Elements: Hazard Statements (H): H315 - Causes skin irritation. H319 - Causes serious eye irritation. H401 -Toxic to aquatic life. H412 - Harmful to aquatic life with long lasting effects. Precautionary Statements (P): P264 - Wash hands and exposed skin areas with soap and warm water thoroughly after handling. P273 - Avoid release to the environment. P280 - Wear protective gloves/eye protection/face protection. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P332+P313 – If skin irritation occurs: Get medical advice/attention. P305 + P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention. P312 - Call a POISON CENTER/doctor if you feel unwell. P321 - Specific treatment see this container label or section 4 (First Aid) of this SDS. P362+P364 - Take off contaminated clothing and wash it before reuse. P501 - Dispose of contents/container to a licensed treatment, storage, or disposal facility (TSDF). Other Warnings: 2.3 KEEP OUT OF REACH OF CHILDREN. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC OSHA ppm ppm ppm ES-ES-ES-CHEMICAL NAME(S) CAS No. RTECS No. EINECS No. STEL TWA PEAK PEL STEL IDLH OTHER NA NA 80-100 NA NA PROPRIETARY INERT NA NA NF NF NF NA NA **INGREDIENTS** N-ALKYL DIMETHYL BENZYL 269-919-4 NF 68391-01-5 NA 0-0.5 NA NA NF NF NA NA NA AMMONIUM CHLORIDE (60% C14. Acute Tox. 4: Skin Corr. 1B: Aquatic Acute 1: H302, H312, H314, H400 30% C16, 5% C18, 5% C12) N-ALKYL DIMETHYL 287-090-7 0-0.5 NA NA NF NF NF NA NA ETHYLBENZYL AMMONIUM Acute Tox. (oral) 4; Skin Corr. 1B; Eye Dam. 1; Aq. Acute 1 (M=10), Aq. Chronic 1 (M=1); H302, H314, H318, H400, H410 CHLORIDE (68% C12, 32% C14) 4. FIRST AID MEASURES DO NOT INDUCE VOMITING! Consult physician immediately or contact the nearest Poison Control 4 1 First Aid: Ingestion: Center or local emergency number. Provide an estimate of the time and amount of the substance that was swallowed. Do not give anything by mouth to a convulsing or unconscious person. If product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. If Eyes: irritation occurs, contact a physician. Skin: If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water for at least 15 minutes. Get immediate medical attention. If irritation persists, contact a physician immediately. Inhalation: Remove victim to fresh air. If not breathing, clear victim's airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen, if available. Seek immediate medical attention.



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		4. FIRST AID MEASURES – cont	'd
4.3	Symptoms of Overexposure: Acute Health Effects:	Ingestion: If product is swallowed, immediate burning in mouth, larynx, skeletal muscle paralysis affecting the ability to be Eyes: It is anticipated that this material will be corrosive to the the eyes direct contact can produce severe eye damage Skin: It is anticipated that this material will be corrosive to the skin in (especially in some sensitive individuals), direct to the skin especially after prolonged and/or repeated contact to the skin especially after prolonged and/or repeated contact in the skin especially after prolonged and/or repeated contact in the skin especially after prolonged and/or repeated contact in the skin especially after prolonged and/or repeated contact in the skin especially after prolonged and/or repeated contact in the skin especially after prolonged and/or repeated contact in the skin especially after prolonged and/or repeated contact in the skin especially after prolonged and/or repeated contact in the skin especially after prolonged and/or repeated contact in the skin especially after prolonged and/or repeated contact in the skin especially after prolonged and/or repeated contact in the skin especially after prolonged and/or repeated contact in the skin especially after prolonged and/or repeated contact in the skin especially after prolonged and/or repeated contact in the skin in (especially after prolonged and/or repeated contact in the skin in (especially after prolonged and/or repeated contact in the skin in (especially after prolonged and/or repeated contact in the skin in (especially after prolonged and/or repeated contact in the eyes in the skin in (especially after prolonged and/or repeated contact in the eyes in t	preathe, circulatory shock and convulsions. eyes upon direct or prolonged contact. Irritating expensive skin upon direct or prolonged contact. Irritating or prolonged contact can produce severe irritation ontact. itation of mucous membranes; however, inhalation composition and Ingredient Information) can cause zziness, headaches, nausea). concentrations can cause headache, irritation of the loss of appetite, and inability to concentrate. anent damage. Harmful by inhalation, ingestion and
4.5	Chronic Health Effects: Target Organs:	None known.	
4.7	Medical Conditions	Eyes, Skin, Respiratory System Pre-existing dermatitis, other skin conditions, and disorders of the	HEALTH 2
	Aggravated by Exposure:	target organs (eyes, skin, and respiratory system).	FLAMMABILITY 0
			PHYSICAL HAZARDS 1
			PROTECTIVE EQUIPMENT X EYES SKIN LUNGS
			ETES SKIN LUNGS
		5. FIREFIGHTING MEASURES	
5.2	Extinguishing Methods:	This product is non-flammable. When exposed to high temperatur decomposition products such as oxides of carbon and nitroge decomposition may also produce toxic vapors/fumes or amines and ot Use extinguishing agent suitable for the surrounding fire.	en, and smoke. Thermal
5.3	Firefighting Procedures:	As in any fire, wear MSHA/NIOSH approved self-contained brea	
5.3	Firefighting Procedures:		ter the fire is out. Use water be upwind. Prevent runoff from pply, or any natural waterway. Sitive pressure self-contained
5.3	Firefighting Procedures:	As in any fire, wear MSHA/NIOSH approved self-contained breat demand) and full protective gear. Keep containers cool until well aft spray to cool fire-exposed surfaces and to protect personnel. Fight fire fire control or dilution from entering sewers, drains, drinking water sup Firefighters must use full bunker gear including NIOSH-approved postereathing apparatus to protect against potential hazardous combustion.	ter the fire is out. Use water e upwind. Prevent runoff from oply, or any natural waterway. sitive pressure self-contained on or decomposition products
5.3	Firefighting Procedures: Spills:	As in any fire, wear MSHA/NIOSH approved self-contained breademand) and full protective gear. Keep containers cool until well aft spray to cool fire-exposed surfaces and to protect personnel. Fight fire fire control or dilution from entering sewers, drains, drinking water sup Firefighters must use full bunker gear including NIOSH-approved post breathing apparatus to protect against potential hazardous combustic and oxygen deficiencies. 6. ACCIDENTAL RELEASE MEASU Before cleaning any spill or leak, individuals involved in spill clear Equipment.	ter the fire is out. Use water the upwind. Prevent runoff from the upwind. Pressure self-contained to or or decomposition products. RES anup must wear appropriate Personal Protective.
		As in any fire, wear MSHA/NIOSH approved self-contained breademand) and full protective gear. Keep containers cool until well aft spray to cool fire-exposed surfaces and to protect personnel. Fight fire fire control or dilution from entering sewers, drains, drinking water sup Firefighters must use full bunker gear including NIOSH-approved post breathing apparatus to protect against potential hazardous combustion and oxygen deficiencies. 6. ACCIDENTAL RELEASE MEASU Before cleaning any spill or leak, individuals involved in spill cleat Equipment. For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate person Maximize ventilation (open doors and windows). Remove spilled appropriate closed container(s) for disposal. Dispose of properly in account of the property of was clothing and wash thoroughly before reuse.	ter the fire is out. Use water a upwind. Prevent runoff from poly, or any natural waterway. Sitive pressure self-contained on or decomposition products RES anup must wear appropriate Personal Protective and protective equipment (e.g., goggles, gloves material with absorbent material and place in accordance with local, state and federal regulation arm water and soap. Remove any contaminate
		As in any fire, wear MSHA/NIOSH approved self-contained breademand) and full protective gear. Keep containers cool until well aft spray to cool fire-exposed surfaces and to protect personnel. Fight fire fire control or dilution from entering sewers, drains, drinking water sup Firefighters must use full bunker gear including NIOSH-approved post breathing apparatus to protect against potential hazardous combustion and oxygen deficiencies. 6. ACCIDENTAL RELEASE MEASU Before cleaning any spill or leak, individuals involved in spill cleat Equipment. For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate person Maximize ventilation (open doors and windows). Remove spilled appropriate closed container(s) for disposal. Dispose of properly in act Wash all affected areas and outside of container with plenty of wash.	ter the fire is out. Use water a upwind. Prevent runoff from poly, or any natural waterway. Sitive pressure self-contained on or decomposition products RES anup must wear appropriate Personal Protection and protective equipment (e.g., goggles, gloves material with absorbent material and place in accordance with local, state and federal regulation arm water and soap. Remove any contaminate coted individuals. Dike and contain spill with intering or disposal and solid diking material to separa apply and wash affected skin areas with soap ar
		As in any fire, wear MSHA/NIOSH approved self-contained breademand) and full protective gear. Keep containers cool until well aft spray to cool fire-exposed surfaces and to protect personnel. Fight fire fire control or dilution from entering sewers, drains, drinking water sup Firefighters must use full bunker gear including NIOSH-approved post breathing apparatus to protect against potential hazardous combustion and oxygen deficiencies. 6. ACCIDENTAL RELEASE MEASU Before cleaning any spill or leak, individuals involved in spill cleat Equipment. For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate person Maximize ventilation (open doors and windows). Remove spilled appropriate closed container(s) for disposal. Dispose of properly in activities and wash thoroughly before reuse. For large spills (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotect material (e.g., sand or earth). Transfer liquid to containers for recover containers for proper disposal. Remove contaminated clothing prom water. Keep spills and cleaning runoffs out of drains, municipal sewers.	ter the fire is out. Use water a upwind. Prevent runoff from poly, or any natural waterway. Sitive pressure self-contained on or decomposition products RES anup must wear appropriate Personal Protection and protective equipment (e.g., goggles, gloves material with absorbent material and place in accordance with local, state and federal regulation arm water and soap. Remove any contaminate cotted individuals. Dike and contain spill with intering or disposal and solid diking material to separate and open bodies of water.
		As in any fire, wear MSHA/NIOSH approved self-contained breademand) and full protective gear. Keep containers cool until well aft spray to cool fire-exposed surfaces and to protect personnel. Fight fire fire control or dilution from entering sewers, drains, drinking water sup Firefighters must use full bunker gear including NIOSH-approved post breathing apparatus to protect against potential hazardous combustion and oxygen deficiencies. 6. ACCIDENTAL RELEASE MEASU Before cleaning any spill or leak, individuals involved in spill cleat Equipment. For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate person Maximize ventilation (open doors and windows). Remove spilled appropriate closed container(s) for disposal. Dispose of properly in act Wash all affected areas and outside of container with plenty of was clothing and wash thoroughly before reuse. For large spills (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotect material (e.g., sand or earth). Transfer liquid to containers for recover containers for proper disposal. Remove contaminated clothing prometers.	ter the fire is out. Use water a upwind. Prevent runoff from poly, or any natural waterway, sitive pressure self-contained on or decomposition products RES anup must wear appropriate Personal Protective nal protective equipment (e.g., goggles, gloves material with absorbent material and place in eccordance with local, state and federal regulation arm water and soap. Remove any contaminate eted individuals. Dike and contain spill with interior or disposal and solid diking material to separa anothy and wash affected skin areas with soap are and open bodies of water. ATION thing vapor/ spray/ mist. Avoid prolonged contains and place in the contain spill with interior or disposal and solid diking material to separa anothy and wash affected skin areas with soap are said open bodies of water.
6.1	Spills:	As in any fire, wear MSHA/NIOSH approved self-contained breademand) and full protective gear. Keep containers cool until well aft spray to cool fire-exposed surfaces and to protect personnel. Fight fire fire control or dilution from entering sewers, drains, drinking water sup Firefighters must use full bunker gear including NIOSH-approved post breathing apparatus to protect against potential hazardous combustion and oxygen deficiencies. 6. ACCIDENTAL RELEASE MEASU Before cleaning any spill or leak, individuals involved in spill cleat Equipment. For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate person Maximize ventilation (open doors and windows). Remove spilled appropriate closed container(s) for disposal. Dispose of properly in acceptable and wash thoroughly before reuse. For large spills (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotect material (e.g., sand or earth). Transfer liquid to containers for recover containers for proper disposal. Remove contaminated clothing promovater. Keep spills and cleaning runoffs out of drains, municipal sewers. 7. HANDLING & STORAGE INFORMAD Do not ingest. Do not get in eyes, on skin, on clothing. Avoid bread with the product. After use, wash hands and exposed skin with science.	ter the fire is out. Use water a upwind. Prevent runoff from poly, or any natural waterway, sitive pressure self-contained on or decomposition products RES anup must wear appropriate Personal Protective nal protective equipment (e.g., goggles, gloves material with absorbent material and place in accordance with local, state and federal regulation arm water and soap. Remove any contaminate coted individuals. Dike and contain spill with incomparty and wash affected skin areas with soap are sand open bodies of water. ATION Ithing vapor/ spray/ mist. Avoid prolonged contains and water. Do not eat, drink or smoke which are the containers in a cool, dry location, away from directively from incompatible materials (See Section 1 sainers as appropriate.



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		8. EXPOSURE CONT	ROLS	<u> </u>	<u>RSON</u>	<u>AL P</u> F	ROTEC	TION	<u> </u>		
3.1	Exposure Limits:		AC	GIH		NOHSC			OSHA		OTHER
	ppm (mg/m³)	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	
		NA	NA	NA	NF	NF	NF	NA	NA	NA	
3.2	Ventilation & Engineering Controls:	When working with large quantitie that an eyewash station, sink or w							haust ver	ntilatior	ı, fans). Ensu
3.3	Respiratory Protection:	No special respiratory protection necessary, use only respiratory	at an eyewash station, sink or washbasin is available in case of exposure to eyes. o special respiratory protection is required under typical circumstances of use or handling. If ecessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR 1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces,								
.4	Eye Protection:	Wear chemical splash goggles wh shields under normal use condition standards, or the European Stand	ons. If ne	ecessary,							
3.5	Hand Protection:	Rubber or neoprene, when neede will occur during use of this produ- §1910.138, the appropriate standa	ct for rou	tine indus	strial use.	If necess	sary, refer				
8.6	Body Protection:	§1910.138, the appropriate standards of Canada or the EU member states. No special body protection is required under typical circumstances of use and handling. Wear appropriate protective clothing, long sleeves, coveralls or other as needed. If necessary, refer to appropriate standards of Canada, the EU member states, or U.S. OSHA.									
		9. PHYSICAL	& CHI	EMICA	AL PRO	OPER	TIES				
9.1	Appearance:	Thin clear liquid									
9.2	Odor:	None									·
.3	Odor Threshold:	NA									
.4	pH:	4.0-7.0									
.5	Melting Point/Freezing Point:	NA									
.6	Initial Boiling Point/Boiling Range:	NA									
.7	Flashpoint:	NA									
.8	Upper/Lower Flammability Limits:	NA									
9.9	Vapor Pressure:	NA									
0.10	Vapor Density:	NA									
0.11	Relative Density:	~ 1.1									
9.12	Solubility:	Soluble									
).13).14	Partition Coefficient (log P _{ow}): Autoignition Temperature:	NA									
9.14	Decomposition Temperature:	NA NA									
9.15	Viscosity:	NA NA									
9.10	Other Information:	NA NA									
9.17	Other information.	NA									
		10. STA	BILIT	Y & R	EACTI	VITY					
0.1	Stability:	Stable									
10.2	Hazardous Decomposition Products:	Thermal decomposition may produce and nitrogen.	luce toxio	vapors/	fumes or	amines a	nd other	organic i	materials	and ox	ides of carb
0.3	Hazardous Polymerization:	Will not occur.									
0.4	Conditions to Avoid:	Exposure or contact to extreme te	mperatur	es. incom	npatible ch	emicals	strona lial	nt source	s. sparks	. flame	_
0.5	Incompatible Substances:	Strong oxidizers, peroxides, strong						554150	_, =paino	,	-
	·	Todang onidizora, peronidea, strong	y acius Ui	amans.							
		11. TOXICO	LOGI	CAL I	NFORI	MATIC)N				
1.1	Routes of Entry:	Inhalation: YES			Absorption:				Ingesti	on: N	<u> </u>
11.2	Toxicity Data:	This product was not tested on a document.	animals.	Toxicity	data is a		n scientifi	c literatu	re but is		
11.3	Acute Toxicity:	See Section 4.4									
11.4	Chronic Toxicity:	See Section 4.5									
11.5	Suspected Carcinogen:	This product does not contain an	v chemic	als know	n to the S	State of 0	California	to cause	cancer	hirth d	efects or ott
	,	reproductive harm. For more inform						.o cause	Januer,	on at a	515613, OF OU



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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision: 2.0 SDS Revision Date: 4/18/2021 11. TOXICOLOGICAL INFORMATION – cont'd Reproductive Toxicity 11 6 This product is not reported to cause 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 cause teratogenic effects in humans. Reproductive Toxicity: This product is not reported to cause reproductive toxicity in humans. 11.7 Irritancy of Product: See Section 4.3 11.8 Biological Exposure Indices ΝE 11.9 Physician Recommendations: Treat symptomatically 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: There are no specific data available for this product. 12 2 Effects on Plants & Animals: There are no specific data available for this product. Effects on Aquatic Life 12.3 There are no specific data available for this product 13. DISPOSAL CONSIDERATIONS Waste Disposal: 13.1 Review current local, state, and federal laws, codes, statutes, and regulations to determine current status and appropriate disposal method. Any disposal practice must follow local, state, and federal laws and regulations. 13.2 Special Considerations: 14. TRANSPORTATION INFORMATION The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR 49 CFR (GND): 14.1 **NOT REGULATED** 14.2 IATA (AIR): **NOT REGULATED** IMDG (OCN): 14.3 **NOT REGULATED** TDGR (Canadian GND): 14.4 **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 does not contain any substance subject to SARA Title III, section 313 reporting requirements SARA TPQ: 15.2 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 CPR and the SDS contains all of the information required by the CPR. The components of this product are not listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS D2B (Other Toxic Effects) 15.7 State Regulatory Information: Quaternary Ammonium Compounds, C₁₂₋₁₄ Alkyl Dimethyl Ethyl Methyl Ammonium Chlorides is found on the following state criteria list: Massachusetts Hazardous Substances List (MA) and Pennsylvania Right-to-Know List (PA). No 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

This product does not contain any chemicals known to the State of California to cause cancer or other reproductive

List (WI)

harm. For more information go to www.P65Warnings.ca.gov

Other Requirements:

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		16. OTHER INF	FORMATION
16.1	Other Information:	WARNING! CAUSES SKIN IRRITATION. HARMFUL TO AQUATIC LIFE WITH LONG L	
		environment. Wear protective gloves/eye prote If skin irritation occurs: Get medical advice/at Remove contact lenses, if present and ea	soap and warm water thoroughly after handling. Avoid release to the ection/face protection. IF ON SKIN: Wash with plenty of soap and water. tention. IF IN EYES: Rinse cautiously with water for several minutes. sy to do. Continue rinsing. If eye irritation persists: Get medical ctor if you feel unwell. Take off contaminated clothing and wash it before
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. Othe 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 o 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, a component properties must be considered. Data may be changed from time to time. Be sure to consult the lates 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/	MicroGold'
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	ShipMate Dangerous Goods Training & Consulting



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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.	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	

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	
1	Slight Hazard	
2	Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	



PERSONAL PROTECTION RATINGS:

Α			
В			
С		THE STATE OF THE S	
D	ELL	THE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLU	
Е			
F			

G		The second second		
Н		The second second	THE STATE OF THE S	
ı		The second second		
J			9	
K	e e	(EV)		
Х	Consult y	our supe	rvisor or irections.	SOPs for



OTHER STANDARD ABBREVIATIONS:

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

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILI	FLAMMABILITY LIMITS IN AIR:		
Autoignition	Minimum temperature required to initiate combustion in air with no other source		
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	FLAMMABILITY
1	Slight Hazard	. =
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	
W	Use No Water	HEALTH 🔪
ОХ	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

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				
TD _{io}	Lowest dose to cause a symptom				
TCLo	Lowest concentration to cause a symptom				
TD _{io} , LD _{io} , & 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				
TC	TC Transport Canada EPA U.S. Environmental Protection Agency				
EPA					
DSL	Canadian Domestic Substance List				
NDSL	Canadian Non-Domestic Substance List				
PSL	Canadian Priority Substances List				
TSCA	U.S. Toxic Substance Control Act				
EU	EU European Union (European Union Directive 67/548/EEC)				
WGK	WGK Wassergefährdungsklassen (German Water Hazard Class)				

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	(A)	(2)		\odot	(4)	(F)	
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