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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision: 1.3 SDS Revision Date: 11/12/2020 1. PRODUCT & COMPANY IDENTIFICATION Product Name 11 **MULTI-ACTION DISINFECTANT ANTIMICROBIAL SPRAY** 1.2 Chemical Name: 1.3 Synonyms GG0097, GG0094, GG0095, GG0096, GG0099, GG0098, MG0097, MG0094, MG0095, MG0096, MG0099, MG0098 Trade Names: 1.4 Multi-Action Disinfectant Antimicrobial Spray, EPA Registration No. 90856-4-88653 1.5 Product Use: Disinfectant Distributor's Name: 1.6 Granite Gold, Inc. Distributor's Address: 12780 Danielson Court, Suite A, Poway, CA 92064 USA 17 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: Prepared in accordance with UN Globally Harmonized standards. Intended to comply with OSHA 29 CFR 1910.1200. Canadian WHMIS and Australian Work Health and Safety. WARNING! MAY BE HARMFUL IF SWALLOWED. MAY BE HARMFUL IN CONTACT WITH SKIN. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE. Classification: Acute Tox. 4 (dermal), Acute Tox. 5 (oral), Eye Irrit. 2A; Aquatic Chronic 4 2.2 Label Elements Hazard Statements (H): H303 - May be harmful if swallowed. H312 - May be harmful in contact with skin. H319 - Causes Serious eye irritation. H413 - May cause long lasting harmful effects to aquatic life. Precautionary Statements (P): P276 - Avoid release to the environment. P280 - Wear protective gloves/ eye protection. 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. 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. P405 - Store locked up. P501 - Dispose of contents/container to a licensed treatment, storage, or disposal facility (TSDF). 2.3 Other Warnings KEEP OUT OF REACH OF CHILDREN. 3. COMPOSITION & INGREDIENT INFORMATION

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						EXPOSURE LIMITS IN AIR (mg/m³)							
					ACGIH		NOHSC		OSHA				
					pp	om		ppm			ppm		
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	OTHER
PROPRIETARY INERT	NA	NA	NA	80-100	NA	NA	NF	NF	NF	NA	NA	NA	
INGREDIENTS													
3-(TRIHYDROXYSILYL)	27668-52-6	RG0186000	248-595-8	0-0.5	NA	NA	NF	NF	NF	NA	NA	NA	
PROPYLDIMETHYLOCTADECYL AMMONIUM CHLORIDE	Skin Irrit. 2; Ey	e Irrit. 2; Aquatio	: Acute 1; Aquati	c Chronic 1	; H315,	H319,	H400, F	1410					
N-ALKYL DIMETHYL BENZYL	68391-01-5		269-919-4	0-0.5	NA	NA	NF	NF	NF	NA	NA	NA	
AMMONIUM CHLORIDE (60% C14, 30% C16, 5% C18, 5% C12)	Acute Tox. 4; Skin Corr. 1B; Aquatic Acute 1; H302, H312, H314, H400												
N-ALKYL DIMETHYL	85409-23-0	NA	287-090-7	0-0.5	NA	NA	NF	NF	NF	NA	NA	NA	
ETHYLBENZYL AMMONIUM CHLORIDE (68% C12, 32% C14)	Acute Tox. 4;	Skin Corr. 1B; Ey	e Dam. 1; Aqua	tic Chronic	1; H302	, H314,	H318,	H400, I	H410				

4. FIRST AID MEASURES

4.1	First Aid:	Ingestion:	DO NOT INDUCE VOMITING! Consult physician immediately or contact the nearest Poison Control 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.
		Eyes:	If product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. If 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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1.2	Effects of Evpanion	4. FIRST AID MEASURES – cont						
1.2	Effects of Exposure:	Ingestion: If product is swallowed, immediate burning in mouth, throat and abdomen and severe swelling of larynx, skeletal muscle paralysis affecting the ability to breathe, circulatory shock and convulsions. Eyes: It is anticipated that this material will be corrosive to the eyes upon direct or prolonged contact. Irritating the eyes direct contact can produce severe eye damage. Skin: It is anticipated that this material will be corrosive to the skin upon direct or prolonged contact. Irritating skin in (especially in some sensitive individuals), direct or prolonged contact can produce severe irritations.						
		to the skin especially after prolonged and/or repeated co						
		Inhalation: Inhalation vapors and mist of products can produce irri						
		of vapors in excess of the levels listed in Section 3 (C central nervous system depression (e.g., drowsiness, di	zziness, headaches, nausea).					
.3	Symptoms of Overexposure:	Overexposure may aggravate existing conditions. Exposure to large ceyes, nose and throat, and, if long continued, drowsiness and lassitud	e, loss of appetite, and inability to concentrate.					
.4	Acute Health Effects:	Olfactory fatigue may occur. Contact with the eyes may cause perma through skin contact. Corrosive - causes burns. May cause CNS depre						
.5	Chronic Health Effects:	None known.						
.6 .7	Target Organs: Medical Conditions	Eyes, Skin, Respiratory System Pre-existing dermatitis, other skin conditions, and disorders of the	117.11.71					
.1	Aggravated by Exposure:	target organs (eyes, skin, and respiratory system).	HEALTH 2					
			FLAMMABILITY 0					
			PHYSICAL HAZARDS 1					
			PROTECTIVE EQUIPMENT X					
			EYES SKIN LUNGS					
		5. FIREFIGHTING MEASURES						
1	Fire & Explosion Hazards:	This product is non-flammable. When exposed to high temperatur decomposition products such as oxides of carbon and nitroged decomposition may also produce toxic vapors/fumes or amines and ot	en, and smoke. Thermal					
			inoi organio materialo.					
	Extinguishing Methods: Firefighting Procedures:	Use extinguishing agent suitable for the surrounding fire. As in any fire, wear MSHA/NIOSH approved self-contained breademand) and full protective gear. Keep containers cool until well af	athing apparatus (pressure-					
			athing apparatus (pressure- iter the fire is out. Use water e upwind. Prevent runoff from oply, or any natural waterway. sitive pressure self-contained					
		As in any fire, wear MSHA/NIOSH approved self-contained bredemand) and full protective gear. Keep containers cool until well af spray to cool fire-exposed surfaces and to protect personnel. Fight fire control or dilution from entering sewers, drains, drinking water sup Firefighters must use full bunker gear including NIOSH-approved posterathing apparatus to protect against potential hazardous combustic and oxygen deficiencies.	athing apparatus (pressure- iter the fire is out. Use water e upwind. Prevent runoff from oply, or any natural waterway. sitive pressure self-contained on or decomposition products					
i.3		As in any fire, wear MSHA/NIOSH approved self-contained bredemand) and full protective gear. Keep containers cool until well af spray to cool fire-exposed surfaces and to protect personnel. Fight 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	athing apparatus (pressure- iter the fire is out. Use water e upwind. Prevent runoff from pply, or any natural waterway. sitive pressure self-contained on or decomposition products					
5.3	Firefighting Procedures:	As in any fire, wear MSHA/NIOSH approved self-contained bredemand) and full protective gear. Keep containers cool until well af 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.	athing apparatus (pressure- iter the fire is out. Use water e upwind. Prevent runoff from pply, or any natural waterway. sitive pressure self-contained on or decomposition products RES anup must wear appropriate Personal Protec					
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5.3	Firefighting Procedures:	As in any fire, wear MSHA/NIOSH approved self-contained bredemand) and full protective gear. Keep containers cool until well af 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 postoreathing apparatus to protect against potential hazardous combustic 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 a Wash all affected areas and outside of container with plenty of wash.	athing apparatus (pressure- iter the fire is out. Use water is upwind. Prevent runoff from oply, or any natural waterway. Sitive pressure self-contained on or decomposition products RES anup must wear appropriate Personal Protect anal protective equipment (e.g., goggles, glove material with absorbent material and place is accordance with local, state and federal regulation arm water and soap. Remove any contaminate cted individuals. Dike and contain spill with in arry or disposal and solid diking material to separ apply and wash affected skin areas with soap a					
3	Firefighting Procedures:	As in any fire, wear MSHA/NIOSH approved self-contained bredemand) and full protective gear. Keep containers cool until well afferage 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 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 a 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 recove containers for proper disposal. Remove contaminated clothing prom	athing apparatus (pressure- iter the fire is out. Use water is upwind. Prevent runoff from oply, or any natural waterway. Sitive pressure self-contained on or decomposition products RES anup must wear appropriate Personal Protect anal protective equipment (e.g., goggles, glower material with absorbent material and place in accordance with local, state and federal regulation arm water and soap. Remove any contaminate arm water and solid diking material to separe apply and wash affected skin areas with soap are and open bodies of water.					
3	Firefighting Procedures:	As in any fire, wear MSHA/NIOSH approved self-contained bredemand) and full protective gear. Keep containers cool until well affers 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 postoreathing apparatus to protect against potential hazardous combustic 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 at 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 recove containers for proper disposal. Remove contaminated clothing pront water. Keep spills and cleaning runoffs out of drains, municipal sewer. 7. HANDLING & STORAGE INFORMAD Do not ingest. Do not get in eyes, on skin, on clothing. Avoid brea with the product. After use, wash hands and exposed skin with so	athing apparatus (pressure- iter the fire is out. Use water is upwind. Prevent runoff from oply, or any natural waterway. Sitive pressure self-contained on or decomposition products RES anup must wear appropriate Personal Protect anal protective equipment (e.g., goggles, glower material with absorbent material and place in accordance with local, state and federal regulation arm water and soap. Remove any contaminate arm water and solid diking material to separ anothy and wash affected skin areas with soap a separation of the service of th					
.1	Firefighting Procedures: Spills:	As in any fire, wear MSHA/NIOSH approved self-contained bredemand) and full protective gear. Keep containers cool until well afform 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 postoreathing apparatus to protect against potential hazardous combustic 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 at 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 recove containers for proper disposal. Remove contaminated clothing pront water. Keep spills and cleaning runoffs out of drains, municipal sewer. 7. HANDLING & STORAGE INFORMAD Do not ingest. Do not get in eyes, on skin, on clothing. Avoid brea	athing apparatus (pressure- iter the fire is out. Use water is upwind. Prevent runoff from oply, or any natural waterway. Sitive pressure self-contained on or decomposition products RES anup must wear appropriate Personal Protect anal protective equipment (e.g., goggles, glower material with absorbent material and place is ccordance with local, state and federal regulation arm water and soap. Remove any contaminate cted individuals. Dike and contain spill with in any or disposal and solid diking material to separ another and soap and selfected skin areas with soap as and open bodies of water. ATION ATION Ithing vapor/ spray/ mist. Avoid prolonged contain open and water. Do not eat, drink or smoke we 122 °F). Keep containers closed until used. Open should be handled with care. Keep product from enter the containers in a cool, dry location, away from diversely from incompatible materials (See Section)					



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	Γ=	8. EXPOSURE CONT									T
3.1	Exposure Limits: ppm (mg/m ³)		AC	GIH 		NOHSC ES-	ES-		OSHA		OTHER
	pp (g)	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	STEL	PEAK	PEL	STEL	IDLH	
3.2	Ventilation & Engineering	NA When working with large quantitie	NA s of prod	NA uct provi	NF do adague	NF to ventil	NF	NA local ox	NA houst voi	NA	fanc) Encu
J. <u>L</u>	Controls:	that an eyewash station, sink or w							illaust vei	illialioi	i, iaiis <i>)</i> . Eiisu
3.3	Respiratory Protection:	No special respiratory protection									
		necessary, use only respiratory §1910.134, or applicable U.S. sta									
		E.C. member states, or Australia.	te regula	lions, or	trie approp	mate sta	indards of	Canada	, its provi	nces,	
3.4	Eye Protection:	Wear chemical splash goggles wh	nere there	e is a pot	ential for e	eve conta	act. Use s	afety gla	sses with	ı side	
		shields under normal use condition	ns. If ne	ecessary,							
		standards, or the European Stand									
3.5	Hand Protection:	Rubber or neoprene, when neede									ann
		will occur during use of this produ- §1910.138, the appropriate standa						10 0.5.	USHA 29	CFK	
3.6	Body Protection:	No special body protection is i						and h	andling.	Wear	
		appropriate protective clothing, lo									
		appropriate standards of Canada,	the EU n	nember s	tates, or U	.S. OSH	Α				
		O DUVELCAL	9 6111		VI DD	<u> </u>	TIFO				
.1	Appearance:	9. PHYSICAL	α СП		AL PRO	JPEK	112				
9.2	Odor:	Thin clear liquid None									
.3	Odor Threshold:	NA									
.4	pH:	4.0-7.0									
.5	Melting Point/Freezing Point:	NA									
.6	Initial Boiling Point/Boiling	NA									
.7	Range: Flashpoint:	NA									
9.8	Upper/Lower Flammability										
9.9	Limits: Vapor Pressure:	NA									
9.10	Vapor Density:	NA NA									
9.11	Relative Density:	~ 1.1									
0.12	Solubility:	Soluble									
9.13	Partition Coefficient (log Pow):	NA									
9.14	Autoignition Temperature:	NA									
).15	Decomposition Temperature:	NA									
.16	Viscosity:	NA									
9.17	Other Information:	NA									
		10. STA	DII IT	V O DI	FACTI	/ITV					
0.1	Stability:		DILII	TAK	EACII	VIII					
10.1	Hazardous Decomposition	Stable Thermal decomposition may produce the stable and the stable and the stable are stable as the stable and the stable are stable as the stable	luco toxia	. vanara!	fumos or	aminaa a	and other	organia	matorials	and a	vidos of sorb
	Products:	and nitrogen.	iuce toxic	s vapors/	iuilles of	allilles a	and other t	organic i	natenais	and 0)	dues 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.	strong liah	nt source	s, sparks	, flame	
0.5	Incompatible Substances:	Strong oxidizers, peroxides, strong				,	<u> </u>				
		, , , , , , , , , , , , , , , , , , , ,	-								
		11. TOXICO	LOGI	CAL	NFORI	MATIC	ON				
11.1	Routes of Entry:	Inhalation: YES			Absorption:	YES	•		Ingesti	on: N	o
11.2	Toxicity Data:	This product was not tested on a document.	animals.	Toxicity	data is a	vailable	in scientifi	c literatu	re but is	not pr	esented in the
1.3	Acute Toxicity:	See Section 4.4									
1.4	Chronic Toxicity:	See Section 4.5									
	Suspected Carcinogen:	This product does not contain an									



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		44 TOVICOLOGICAL INCORMATION CONTRA
		11. TOXICOLOGICAL INFORMATION – cont'd
11.6	Reproductive Toxicity:	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:	NE NE
1.9	Physician Recommendations:	Treat symptomatically
		12. ECOLOGICAL INFORMATION
2.1	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.
12.3	Effects on Aquatic Life:	There are no specific data available for this product.
	·	There are no openine data available for this product.
		13. DISPOSAL CONSIDERATIONS
13.1	Waste Disposal:	Review current local, state, and federal laws, codes, statutes, and regulations to determine current status ar appropriate disposal method. Any disposal practice must follow local, state, and federal laws and regulations.
13.2	Special Considerations:	NA NA
		ber, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. NOT REGULATED NOT REGULATED
14.3	IMDG (OCN):	NOT REGULATED
14.4	TDGR (Canadian GND):	NOT REGULATED
14.5	ADR/RID (EU):	
4.6	SCT (MEXICO):	NOT REGULATED
14.7	ADGR (AUS):	NOT REGULATED
14.7	ADGR (AUS).	NOT REGULATED
		15. REGULATORY INFORMATION
15.1	SARA 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 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, C ₁₂₋₁₄ Alkyl Dimethyl Ethyl Methyl Ammonium Chlorides is found on the followistate 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 starcriteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substance List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesc Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NP) Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substance List (WI).
15.8	Other Requirements:	This product does not contain any chemicals known to the State of California to cause cancer or other reproduction. For more information go to www.P65Warnings.ca.gov



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	16. OTHER INFORMATION								
16.1	Other Information:								
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.							
16.3	Disclaimer:	government regulations must be reviewed for a knowledge, the information contained herein is completeness is not guaranteed and no war information contained herein relates only to the	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						
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.	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			
D		型	
Ε			
F		型	

G				
Η				
ı				
J				
K	चि		A	
X	Consult y	our supe andling d	rvisor or irections.	SOPs for



OTHER STANDARD ABBREVIATIONS:

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

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:					
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source 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	\sim 2			
ALK	Alkaline				
COR	Corrosive	/ \ \ \ \			
₩ Use No Water		HEALTH			
OX	Oxidizer	SPECIAL			
TREFOIL	Radioactive	PRECAUTIONS			

TOXICOLOGICAL INFORMATION:

Lethal Dose (solids & liquids) which kills 50% of the exposed animals			
Lethal concentration (gases) which kills 50% of the exposed animal			
Concentration expressed in parts of material per million parts			
Lowest dose to cause a symptom			
Lowest concentration to cause a symptom			
, & LD _o or Lowest dose (or concentration) to cause lethal or toxic effects			
International Agency for Research on Cancer			
National Toxicology Program			
Registry of Toxic Effects of Chemical Substances			
Bioconcentration Factor			
Median threshold limit			
Coefficient of Oil/Water Distribution			

REGULATORY INFORMATION:

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

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	(*)	(2)		\odot	(4)		
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	(Pay)		!		*
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment