

Page 1 of 6

GG-001 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision Date: 4/30/2018 SDS Revision: 4.5 1. PRODUCT & COMPANY IDENTIFICATION 1.1 Product Name: **GRANITE GOLD DAILY CLEANER GRANITE GOLD DAILY CLEANER WIPES** Chemical Name: 1.2 Aqueous Solution 1.3 Synonyms GG0173; GG0045; GG0048; GG0040; GG0032, GG0057 14 Trade Names: Granite Gold Daily Cleaner (207-006000-1); Granite Gold Daily Cleaner Wipes 1.5 Product Use: Cleaner 1.6 Distributor's Name: Granite Gold, Inc. 1.7 Distributor's Address: 9170 Chesapeake Drive, San Diego CA 92123 USA 1.8 Emergency Phone: CHEMTREC +1 (703) 527-3887 / +1 (800) 424-9300 1.9 Business Phone / Fax: Tel: +1 (858) 499-8933 2. HAZARDS IDENTIFICATION This product is not classified as a HAZARDOUS SUBSTANCE or as DANGEROUS GOODS according to the 2.1 Hazard Identification: classification criteria of NOHSC: 1088 (2004) and ADG Code (Australia). This product is classified as hazardous according to the OSHA 2012 Hazardous Communication 2012 final rule WARNING! HARMFUL IF SWALLOWED. CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE IRRITATION. Classification: Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A Label Elements: 2.2 Hazard Statements (H): H302 – Harmful if swallowed. H315 – Causes skin irritation. H319– Causes serious eye irritation. Precautionary Statements (P): P264 - Wash thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves. P301+P312 - IF SWALLOWED: call a POISON CENTER/doctor. P330 - 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+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persist: Get medical advice/attention. P362 -Take off contaminated clothing and wash before reuse. P403+233 - Store in a well-ventilated place. Keep container tightly closed. P501 - Dispose of contents/ container to an approved waste disposal plant. 2.3 Other Warnings: In the event of an exposure or medical inquiry involving this product, please contact a physician or local poison control center, who may seek advice from the U.S. manufacturer, and show them this SDS. Aqueous solution. KEEP OUT OF REACH OF CHILDREN. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC OSHA ppm ppm ppm ES-PEL CHEMICAL NAME(S) TI V STEL STEL **IDLH** OTHER CAS No. RTECS No. **EINECS No TWA** STEL PEAK 7732-18-5 231-191-2 60-100 ZC0110000 NE NE NE NE WATER NT8050000 200-661-7 0.1-1 400 500 400 500 NF 400 500 2000 400 TWA 67-63-0 **ISOPROPANOL** Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; H225, H319, H336 112-34-5 KJ910000 203-961-6 0.1-1 NA NA NF NF NF NA NA NA **GLYCOL ETHER DB** Eye Irrit. 2; H319 151-21-3 WT1050000 205-788-1 0.1-1 NA NA NF NF NF NA NA NA SODIUM LAURYL SULFATE Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; H302, H315, H319 ≤ 0.1 NA NA NA NA NA NF NF NF NA NA NA FRAGRANCE 4. FIRST AID MEASURES 4.1 First Aid: DO NOT INDUCE VOMITING. Contact ChemTrec at +1 (703) 527-3887 or the nearest Poison Control Ingestion: Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. Flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to Eyes: 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, seek prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned.

Inhalation:

Remove victim to fresh air at once. If breathing is difficult, administer supplemental oxygen and seek

immediate medical attention. If breathing stops, perform artificial respiration.



Page 2 of 6 **GG-001**

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards

SDS Revision: 4.5

SDS Revision Date: 4/30/2018

			4. FIRST AID MEASURES – cont	'd			
4.2	Effects of Exposure:	Ingestion: If product is swallowed, may cause nausea, vomiting and/or diarrhea. Eyes: This product can cause transient mild eye irritation with short-term contact with liquid sprays or mists. Skin: This product can cause mild, transient skin irritation with short-term exposure. Inhalation: Exposure may cause respiratory tract irritation in some sensitive individuals.				mists.	
4.3	Symptoms of Overexposure:	Skin: Eyes:	Skin: Prolonged contact with skin may result in bleaching and irritation of skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals. Symptoms of skin overexposure may include redness, itching, and irritation of affected areas.				
4.4	Acute Health Effects:		itation to eyes. Moderate irritation to skin near affected a nptoms include irritating properties to eyes, respiratory sys	reas. Acute	health hazar	rds may be de	layed. Most
4.5	Chronic Health Effects:	No harmful irritating to	or chronic health effects are expected to occur from a sing skin and mucous membrane of the eye and respiratory a some sensitive individuals. May also induce skin sens	gle accidenta / system. (al ingestion. Overexposure	e may trigger	asthma-like
4.6	Target Organs:	Eyes, Skin.					
4.7	Medical Conditions Aggravated by Exposure:		dermatitis, other skin conditions, and disorders of the	HEALTH			1
	Aggravated by Exposure.		s (eyes, skin, and respiratory system) or impaired kidney	FLAMMA	ABILITY		0
		function may	be more susceptible to the effects of this substance.	PHYSIC	AL HAZARI	DS	0
					TIVE EQU		A
				EYES	SKIN		<u> </u>
	1			LILO	ORM		
5.1	Fire & Explosion Hazards:	Will not bur	5. FIREFIGHTING MEASURES but decomposition, which may be caused by heat, which may be caused by heat.	rill release o	xvaen which	h will	
5.1	Fire & Explosion Hazards: Extinguishing Methods:	increase the and thermal in health haz	n, but decomposition, which may be caused by heat, we explosive limit range and burning rate of flammable vapo decomposition, oxidation products may form and exposurards	rs. As a res	ult of combus	stion	0
		increase the and thermal in health haze Foam, CO ₂ , Fight fires a equivalent fought from with water s	n, but decomposition, which may be caused by heat, we explosive limit range and burning rate of flammable vapodecomposition, oxidation products may form and exposure	rs. As a res e to such pro MSHA/NIO ive clothing. e fire is out. sion. Preven	ult of combus oducts may re SH approve Fire should Cool contain	ed or d be iners n fire	0
5.2	Extinguishing Methods:	increase the and thermal in health haze Foam, CO ₂ , Fight fires a equivalent fought from with water s	n, but decomposition, which may be caused by heat, we explosive limit range and burning rate of flammable vapor decomposition, oxidation products may form and exposure ards. Water Fog or Dry Chemical are for surrounding materials. Firefighters should wear a self-contained breathing apparatus (SCBA) and protect a safe distance. Keep containers cool until well after the pray to prevent pressure build-up, auto-ignition or explosution from entering sewers, drains, drinking water supply,	rs. As a rese to such pro MSHA/NIO ive clothing. e fire is out. sion. Preven or any natur	ult of combus oducts may re SH approve Fire should Cool contain	ed or d be iners n fire	0
5.2	Extinguishing Methods:	increase the and thermal in health haz Foam, CO ₂ , Fight fires a equivalent sought from with water sontrol or discontrol or dis	n, but decomposition, which may be caused by heat, we explosive limit range and burning rate of flammable vapordecomposition, oxidation products may form and exposure ards Water Fog or Dry Chemical Is for surrounding materials. Firefighters should wear a self-contained breathing apparatus (SCBA) and protection a safe distance. Keep containers cool until well after the pray to prevent pressure build-up, auto-ignition or explosion.	rs. As a rese to such provide to such provide clothing. The such provide clothing are fire is out. It is ion. Preven or any nature to any nature to any material with a protective mate	SH approved Fire should Cool contain trunoff from real waterway. wear approprie equipmenth absorbent ith local, statend soap. Real and solid cash affected	ed or d be iners in fire contain the fire and federal and contain specified and contain	es, gloves). I place into regulations. ontaminated oill with inert to separate
5.2	Extinguishing Methods: Firefighting Procedures:	increase the and thermal in health haz Foam, CO ₂ , Fight fires a equivalent fought from with water scontrol or discontrol or di	n, but decomposition, which may be caused by heat, we explosive limit range and burning rate of flammable vapor decomposition, oxidation products may form and exposure ards. Water Fog or Dry Chemical as for surrounding materials. Firefighters should wear a self-contained breathing apparatus (SCBA) and protect a safe distance. Keep containers cool until well after the pray to prevent pressure build-up, auto-ignition or explosution from entering sewers, drains, drinking water supply, 6. ACCIDENTAL RELEASE MEASU and protect in spill clear caused a surface and surface and surface and surface are and outside of container with plenty of was wash thoroughly before reuse. bills (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotect and or earth). Transfer liquid to containers for recove or proper disposal. Remove contaminated clothing prone	rs. As a rese to such provide to such provide clothing. The such provide clothing are fire is out. The such provides and protective material with the coordance was a coordanc	SH approved Fire should Cool contain trunoff from real waterway. wear approprie equipmenth absorbent ith local, statend soap. Real and solid cash affected	ed or d be iners in fire contain the fire and federal and contain specified and contain	es, gloves). I place into regulations. ontaminated oill with inert to separate
5.2	Extinguishing Methods: Firefighting Procedures:	increase the and thermal in health haz Foam, CO ₂ , Fight fires a equivalent fought from with water scontrol or discontrol or di	n, but decomposition, which may be caused by heat, we explosive limit range and burning rate of flammable vapor decomposition, oxidation products may form and exposur ards Water Fog or Dry Chemical as for surrounding materials. Firefighters should wear a self-contained breathing apparatus (SCBA) and protect as asfe distance. Keep containers cool until well after the pray to prevent pressure build-up, auto-ignition or explosution from entering sewers, drains, drinking water supply, 6. ACCIDENTAL RELEASE MEASU Ining any spill or leak, individuals involved in spill cleated and spills (e.g., < 1 gallon (3.8 L)) wear appropriate personantiation (open doors and windows. Remove spilled areas and outside of container with plenty of water wash thoroughly before reuse. Joills (e.g., > 1 gallon (3.8 L)), deny entry to all unprotections of the container of the containe	rs. As a rese to such provide	ult of combus oducts may re SH approver Fire should Cool contain t runoff from al waterway. wear approp re equipmen h absorbent ith local, stat hd soap. Re al and solid of ash affected of water.	astion result ad or d be iners in fire oriate Persona at (e.g., gogglit material and te and federal temove any column askin areas with the second and contain specific products and contain specific products and contain specific products and contain specific products are second and contain specific products and contain specific products are second and contain specific products and contain specific products are specific products and contains a specific product products are specific products and contains a specific product products are specific products and contains a specific product products are specific products and contains a specific product products are specific products and contains a specific product products are specific products and contains are specific products are specific products and contains are specific products are specific products and contains are specific products and contains are specific products are specific products and contains are specific products are specific products and contains are specific products and contains are specific products are specific products are specific products are specific products and contains are specific products are specific products are specific products and contains are specific products are specific products and contains are specific products are specific products are specific products a	es, gloves). I place into regulations. ontaminated oill with inert to separate th soap and
5.2 5.3 6.1	Extinguishing Methods: Firefighting Procedures: Spills:	increase the and thermal in health haz in health haz Foam, CO ₂ , Fight fires a equivalent of fought from with water scontrol or discontrol or small or small or small or large significant discontrol or discontrol	n, but decomposition, which may be caused by heat, we explosive limit range and burning rate of flammable vapor decomposition, oxidation products may form and exposur ards. Water Fog or Dry Chemical as for surrounding materials. Firefighters should wear a self-contained breathing apparatus (SCBA) and protect as asfe distance. Keep containers cool until well after the pray to prevent pressure build-up, auto-ignition or explosution from entering sewers, drains, drinking water supply, 6. ACCIDENTAL RELEASE MEASU and protect in a supply of the pray in the pray to prevent pressure build-up, auto-ignition or explosution from entering sewers, drains, drinking water supply, 6. ACCIDENTAL RELEASE MEASU and protect in a supply of the protect of the pray in the protect of the pray in the protect of the pray in the protect of th	rs. As a rese to such provide	ult of combus oducts may re SH approver Fire should Cool contain t runoff from al waterway. wear approp re equipmen h absorbent ith local, stat hd soap. Re al and solid of ash affected of water.	astion result ad or d be iners in fire oriate Persona at (e.g., gogglit material and te and federal temove any column askin areas with the second and contain specific products and contain specific products and contain specific products and contain specific products are second and contain specific products and contain specific products are second and contain specific products and contain specific products are specific products and contains a specific product products are specific products and contains a specific product products are specific products and contains a specific product products are specific products and contains a specific product products are specific products and contains a specific product products are specific products and contains are specific products are specific products and contains are specific products are specific products and contains are specific products and contains are specific products are specific products and contains are specific products are specific products and contains are specific products and contains are specific products are specific products are specific products are specific products and contains are specific products are specific products are specific products and contains are specific products are specific products and contains are specific products are specific products are specific products a	es, gloves). I place into regulations. ontaminated oill with inert to separate th soap and



Page 3 of 6

GG-001

	SOTTATE OF PRODUCTS SOTTATE OF TOWN LASE (ANYWAY)	SAFETT	DAI	4 3 1		- 1			GG-00)1
Prepa	ared to OSHA, ACC, ANS	SI, NOHSC, WHMIS, GHS & 1272/200	08/EC Standards	SI	DS Revi	sion: 4.5	SD	S Revisio	n Date:	4/30/2018
		8. EXPOSURE CONTR	OLS & PF	RSON	ΔΙ ΡΙ	ROTEC	TION			
8.1	Exposure Limits:	J. EXI COOKE CONTI	ACGIH	110011/	NOHSC	WIL C		OSHA		OTHER
0	ppm (mg/m³)				ES-	ES-				
		CHEMICAL NAME(S) ISOPROPANOL	TLV STEL	ES-TWA	STEL	PEAK NF	PEL	STEL	1DLH 2000	400 TMA
8.2	Ventilation & Engineering Controls:	Not required under normal condition exhaust ventilation).	200 400 ions of use. Us	e with add	500 equate		(e.g., o	500 pen door		400 TWA vindows, loca
8.3	Respiratory Protection:	Not required under normal condition	ns of use.							
8.4	Eye Protection:									
0.5	Hand Protection:	and approved under appropriate gov	and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).							
8.5	nand Protection:	If anticipated that prolonged & reperubber gloves for routine industrial appropriate standards of Canada, of	l use. If necess	sary, refer						
8.6	Body Protection:	Not required under normal condition necessary to prevent or reduce expo						e.g., apro	on) as	
		9. PHYSICAL 8	R CHEMICA	AL PRO)PFR	TIFS				
9.1	Appearance:		. J. ILIMIOF		·					
9.2	Odor:	Clear to slightly hazy liquid Lemon citrus fragrance								
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	100 °C (212 °F) @ 760 mm Hg								
9.7	Range: Flashpoint:	> 121.11 °C (> 250 °F)								
9.8	Upper/Lower Flammability	, ,								
	Limits:	ND								
9.9	Vapor Pressure:	< 30								
9.10	Vapor Density: Relative Density:	NA								
9.11	Solubility:	1.000 @ 25°C (77°F)								
9.13	Partition Coefficient (log Pow):	Complete NA								
9.14	Autoignition Temperature:	NA NA								
9.15	Decomposition Temperature:	NA NA								
9.16	Viscosity:	NA NA								
9.17	Other Information:	0.49% VOC								
		,								
		10. STAB	BILITY & RI	EACTI\	/ITY					
10.1	Stability:	Stable under normal conditions of u								
10.2	Hazardous Decomposition	Oxides of carbon (CO, CO ₂) and nit	trogen (NO _x).							
10.3	Products: Hazardous Polymerization:	Will not occur.	3 (- 2)							
10.4	Conditions to Avoid:	Strong oxidizers.								
10.5	Incompatible Substances:	Strong oxidizing agents, strong acid	ds and bases							
		11. TOXICOL	OGICAL I	NFORM	ΛΑΤΙ	NC				
11.1	Routes of Entry:	Inhalation: YES		Absorption:	YES			Ingesti	on: NC)
11.2	Toxicity Data:	This product has not been tested or of this product, which are found in t product is neither a primary eye nor	the scientific liter	ature. The	ese data	a have not	been pre	esented i	n this d	ocument. Thi
11.3	Acute Toxicity:	See Section 4.4					·			-
11.4	Chronic Toxicity:	See Section 4.5			-			-		
11.5	Suspected Carcinogen:	This product contains <u>Isopropyl Alc</u> IARC. This product does not con reproductive harm. For more informa	ntain any chemi	cals know	n to the	e State o				
11.6	Reproductive Toxicity:	This product is not reported to produ								
	Mutagenicity:	This product is not reported to produ	uce mutagenic ef	fects in hui	mans.					
	Embryotoxicity:	This product is not reported to produ	uce embryotoxic	effects in h	iumans.	-				
	Teratogenicity:	This product is not reported to produ	uce teratogenic e	ffects in hu	ımans.					
	Reproductive Toxicity:	This product is not reported to produ	uce reproductive	effects in h	numans.					
11.7	Irritancy of Product:	See Section 4.2								
11.8	Biological Exposure Indices:	NE								
11.9	Physician Recommendations:	Treat symptomatically.								



Page 4 of 6 **GG-001**

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision Date: 4/30/2018 SDS Revision: 4.5 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: The components of this product will slowly degrade over time into a variety of organic compounds. environmental data available for the components of this product are as follows: Isopropyl Alcohol: Log Kow = 0.05-0.14. Isopropyl alcohol occurs naturally; it is generated during microbial degradation of plant and animal wastes. When released on land or water, it is apt to volatilize and biodegrade. The estimated halflife in 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. Effects on Aquatic Life: 12.3 Product is expected to rapidly disperse in the aquatic environment. 13. DISPOSAL CONSIDERATIONS 13.1 Waste Disposal: 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 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. 14.1 49 CFR (GND): **NOT REGULATED** 14.2 IATA (AIR): NOT REGULATED IMDG (OCN): 14.3 **NOT REGULATED** TDGR (Canadian GND): 14.4 NOT REGULATED ADR/RID (EU): 14.5 NOT REGULATED 14.6 SCT (MEXICO): **NOT REGULATED** 14.7 ADGR (AUS): **NOT REGULATED** 15. REGULATORY INFORMATION SARA Reporting Requirements: 15 1 This product contains Isopropanol, a 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 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 listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. (WHMIS D2B - Other Toxic Effects) No ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state 15.7 State Regulatory Information: 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),

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

Substances List (WI).

NA

Other Requirements:

15.8

Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous

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



Page 5 of 6

GG-001

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 4.5 SDS Revision Date: 4/30/2018

16. OTHER INFORMATION 16.1 Other Information: WARNING! HARMFUL IF SWALLOWED. CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE IRRITATION. CAUTION - MAY BE SLIPPERY IF SPILLED. Wash exposed skin areas thoroughly with soap and water after handling. Avoid eye contact. Wear protective gloves/eye protection/face protection. IF ON SKIN: Wash with soap and water. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. If skin irritation or a rash occurs - Get medical advice/attention. Store in a well-ventilated place. Keep cool. Use only as directed. 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 Training & Consulting

http://www.shipmate.com



Page 6 of 6 **GG-001**

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards

SDS Revision: 4.5

SDS Revision Date: 4/30/2018

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

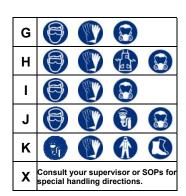
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α			
В			
С		型	
D		型	
Е			
F		The state of the s	





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	STOT RE Specific Target Organ Toxicity – Repeat Exposure	
STOT SE	Specific Target Organ Toxicity – Single Exposure	

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILI	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	
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 _{io} , & LC _o	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL _m	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	Transport Canada
EPA	U.S. Environmental Protection Agency
DSL	Canadian Domestic Substance List
NDSL	Canadian Non-Domestic Substance List
PSL	Canadian Priority Substances List
TSCA	U.S. Toxic Substance Control Act
EU European Union (European Union Directive 67/548/EEC) WGK Wassergefährdungsklassen (German Water Hazard Class)	

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	®		(A)	Θ	(%)		
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:

	③		\Diamond			\Leftrightarrow		*
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment