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G5L

Prep	pared to OSHA, ACC, A	ansi, whmis & 2001,	'58 EC Standa	ırds	MSDS F	Revision: 1	.0	MSDS F	Revision D	ate: 5/01/	2005
1.	PRODUCT IDEN	TIFICATION					CHEM		ESPON	SE CARI	D: 04
1.1	Product Name:	ProGold®, G5L,	5% Liquid				RESPO	NSE		m	
1.2	Chemical Name:	See ingredients list	ed in section	2			TEAM F	PPE:	$\mathbf{\Psi} \mid \mathbf{\hat{v}}$		
1.3	Synonyms:	ProGold®, G5L, 5%	Liquid					. (,	
1.4	Trade Names:	ProGold®, G5L, 5%	Liquid				WHMIS	s: (\mathfrak{G}	<u>!</u>	
1.5	Product Use:	Conditioner, enha	incer for conte	acts & connec	tors		HEALT	H:	· · ·		1
1.6	Manufacturer's Name:	CAIG Laboratories	s, Inc.				FLAM	ABILITY	/:		2
1.7	Manufacturer's Address:	12200 Thatcher Co	ourt, Poway, C	CA 92064-6876			REACT	IVITY:			0
1.8	Business Phone:	+1 (800)-224-4123					PERSO	NAL PR	OTECTIC	DN:	В
1.9	Emergency Phone:	CHEMTREC 1	-800-424	-9300/1-7	03-52	27-3887	7				
1.10	Other Product Names:	ProGold®, G5L-250 ProGold®, G5L-4, 5 ProGold®, G5L-12, ProGold®, G5L-32, ProGold®, G5L-5G ProGold®, G5L-550	% Liquid, 118 5% Liquid, 354 5% Liquid, 944 , 5% Liquid, 30	ml 4 ml 4 ml L							
		2. COM		N & INGRE	DIFN		MATIC)N			
									TS IN AIR ((ma/m ³)	
						AC	GIH		OSHA		OTHER
	CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV ppm	STEL ppm	PEL ppm	STEL ppm	IDLH ppm	
PETRO	DLEUM NAPHTHA	64742-88-7	XS5250000	265-191-7	≤ 95	100	NE	100	NE	NE	
ProG	old® G100L	TRADE SECRET			≤ 5	NE	NE	NE	NE	NE	
	= Not Available; ND = 1 E: all WHMIS required				•						; Used



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G5L

Prepared to OSHA, ACC, ANS, WHMS & 2001/SB EC Standards MSDS Revision: 1.0 MSDS Revision: 1.0 MSDS Revision: 1.0									
3.1 Liveral teartification: Calories: volatile fiquid with ethered and faint sweetish ador. Flammable liquid. Overexposure may cause distincts and loss of concentration. At higher levels, CNS depression and cardiac arrhythmia may result from exposure. Vapors displace air and can cause applyziation in confined spaces. 3.2 Souties of firsty: Inhalotion: YES Absorption: YES Ingestion: YES 3.3 Effects of Bapoare: FYSS: Mild to moderate inflation. YES Absorption: YES Ingestion: YES 3.4 Symptoms of Overecource: FYSS: Mild to moderate inflation. enter of spaces Ingestion: YES 3.4 Symptoms of Overecource: FYSS: Mild inflation, redness, and watering. SKIN: Contract dermatilis, characterized by localized red or putfy dry skin and liching. INCESTION: Nouse, youriling, and diarrhee. 3.4 Symptoms of Overecource: FYSS: Mild inflation, and diarrhee. Nouth, nose, and throat inflation, dizzness, nausea, light-headedness, drunkenness, and loss of coordination. 3.4 Modestified Modera firetion. Resident exposes Resident exposes SKIN: Contract dermatifies, diarders, draw depression. Inflation and potential iskin sensitzer. Frolonged or repeated contact may cause contact dermatifis (localized redness or rash). Notestherecource <	Prep	ared to OSHA, AC	C, ANSI, WHMIS & 2001/58 EC Standards	Μ	SDS Revision: 1.0	MSE	OS Revision Date: 5/01/20)05	
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EYES: Flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to 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 affer it has been properly cleaned. INGESTION: Drink plenty of water. If irritation persists, contact a physician. INHALATION: Remove victim to fresh air at once. If breathing is difficult, administer supplemental oxygen and seek immediate medical attention. 4.2 Medical Conditions Aggravated by Exposure: None reported by the manufacturer. 4.2 Medical Conditions Aggravated by Exposure: 1 FLAMMABILITY 2 REACTIVITY 0 PROTECTIVE EQUIPMENT 0			4. FIRST AI	D ME	ASURES				
 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. INGESTION: Drink plenty of water. If irritation persists, contact a physician. 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. 4.2 Medical Conditions Aggravated by Exposure: None reported by the manufacturer. 	4.1		Fluch over thereughly with contents and		for for at least 15	minutes	olding ovolid(a) and t		
4.2 Medical Conditions Aggravated by Exposure: None reported by the manufacturer. Medical Conditions Aggravated by Exposure: None reported by the manufacturer. Image: Conditions Aggravated by Exposure: None reported by the manufacturer. Image: Conditions Aggravated by Exposure: None reported by the manufacturer. Image: Conditions Aggravated by Exposure: None reported by the manufacturer. Image: Conditions Aggravated by Exposure: None reported by the manufacturer. Image: Conditions Aggravated by Exposure: None reported by the manufacturer. Image: Conditions Aggravated by Exposure: None reported by the manufacturer. Image: Conditions Aggravated by Exposure: None reported by the manufacturer. Image: Conditions Aggravated by Exposure: None reported by the manufacturer. Image: Conditions Aggravated by Exposure: None reported by the manufacturer. Image: Conditions Aggravated by Exposure: None reported by the manufacturer. Image: Conditions Aggravated by Exposure: None reported by the manufacturer. Image: Conditions Aggravated by Exposure: None reported by the manufacturer. Image: Conditions Aggravated by Exposure: None reported by the manufacturer. Image: Conditions Aggravated by Exposure: None reported by Exposure: None		E1E3.					oranig eyena(s) open to	o ensure	
INGESTION: Drink plenty of water. If irritation persists, contact a physician. 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. 4.2 Medical Conditions Aggravated by Exposure: 1 None reported by the manufacturer. 1 FLAMMABILITY 2 REACTIVITY 0 PROTECTIVE EQUIPMENT 1		SKIN:						c prompt	
4.2 Medical Conditions Aggravated by Exposure: None reported by the manufacturer. HEALTH 1 FLAMMABILITY 2 REACTIVITY 0 PROTECTIVE EQUIPMENT		INGESTION:							
None reported by the manufacturer. HEALTH 1 FLAMMABILITY 2 REACTIVITY 0 PROTECTIVE EQUIPMENT		INHALATION:		•	•	supplemen	tal oxygen and seek im	mediate	
None reported by the manufacturer. FLAMMABILITY 2 REACTIVITY 0 PROTECTIVE EQUIPMENT	4.2					HEALTH		1	
REACTIVITY 0 PROTECTIVE EQUIPMENT		None reported b	y the manufacturer.						
PROTECTIVE EQUIPMENT									
								-	
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	5. FIREFIGHTING MEASURES
5.1	Flashpoint & Method:
	48.8 °C - 54.4 °C (120 °F − 130 °F).
5.2	Autoignition Temperature: NA
5.3	Flammability Limits: Lower Explosive Limit (LEL): NA Upper Explosive Limit (UEL): NA
5.4	Fire & Explosion Hazards:
	Carbon dioxide, carbon monoxide, hydrocarbons.
5.5	Extinguishing Methods:
<i></i>	CO ₂ , Alcohol foam, Dry Chemical, Water Fog
5.6	Wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Use a water
	spray to cool containers involved in fire. Do not use direct water stream. Container storage areas
	exposed to direct flame contact should be cooled with large quantities of water as needed to prevent
	weakening of container structure. Keep containers cool until well after the fire is out to prevent rupture.
	Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any
	natural waterway.
	6. ACCIDENTAL RELEASE MEASURES
6.1	Spills:
	Secure spill area and deny entry to all unprotected individuals. Individuals involved in the cleanup should wear appropriate personal protective equipment. Area may become slippery. Absorb product onto porous material, such as sand, clay, diatomaceous earth
	or commercial absorbent material. Place into leak-proof, U.S. DOT-approved containers. If necessary, cover all drains and dike well
	ahead of the spill to prevent runoff into sewers, drains, and all waterways. Contact appropriate local or provincial authorities for
	assistance and/or reporting requirements.
	7. HANDLING & STORAGE INFORMATION
7.1	Work & Hygiene Practices:
	Wash hands thoroughly after using this product and before eating, drinking, or smoking. Remove soiled clothing to prevent prolonged skin contact.
7.2	Storage & Handling:
	Store at temperatures between 59 °F and 95 °F (15 °C and 35 °C) in a dry, well-ventilated location. Keep away from heat, sparks,
	open flame, and other sources of ignition. Normal shelf-life: 2-3 years.
7.3	Special Precautions:
	Empty containers can contain flammable vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers.
0.1	8. EXPOSURE CONTROLS & PERSONAL PROTECTION
8.1	Ventilation & Engineering Controls:
	Use with adequate ventilation (e.g., open doors and windows, local exhaust ventilation). Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station).
8.2	Respiratory Protection:
	None required, when used with adequate ventilation.
8.3	Eye Protection:
	Wear safety glasses with side shields (ANSI Z87) under normal use conditions.
8.4	Hand Protection:
	None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. In such cases, wear rubber or impervious plastic gloves.
8.5	Body Protection:
	Use as necessary to prevent skin contact.
<u> </u>	



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		9. PHYSICAL & CHEMICAL PROPERTIES
9.1	Density:	0.75
7.2	Boiling Point:	171.1 °C − 204 °C @ 760 mmHg
7.3	Melting Point:	NA
7.4	Evaporation Rate:	NA
9.5	Vapor Pressure:	35 psig @ 20 °C, 50 psig @ 50 °C
7.6	Molecular Weight:	
9.7	Appearance & Color:	Light yellow liquid
9.8	Odor Threshold:	Ethereal/hydrocarbon odor
9.9	Solubility:	Not soluble in water
9.10	рН	ND
9.11	Viscosity:	10.0 cps
9.12	Other Information:	Vapor Density = 4.9 (Air = 1.0)
	1	10. STABILITY & REACTIVITY
10.1	Stability:	Stable under normal conditions of use (see section 7).
10.2	Hazardous Decomposition Products:	Change in color signifies exposure to ultraviolet light or exceeding shelf life. Will not degrade to unstable products. Discard solution.
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Use or storage near open flames, sparks, high heat (>100 °F) or other heat sources, and proximity to incompatible substances and heavily trafficked areas.
10.5	Incompatible Substances:	Strong oxidizers.
1.1	Toxicity Data:	11. TOXICOLOGICAL INFORMATION This product has not been tested on animals to obtain toxicological data. There are toxicology data for the components of this product, which are found in the scientific literature. These data have no been presented in this document.
11.2	Acute Toxicity:	See section 3.5
11.3	Chronic Toxicity:	See section 3.6
11.4	Suspected Carcinogen:	NE
	Reproductive Toxicity:	This product is not reported to produce reproductive toxicity in humans.
11.5		
11.5	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.
11.5		
11.5	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.This product is not reported to produce embryotoxic effects in humans.This product is not reported to produce teratogenic effects in humans.
	Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity:	This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to produce teratogenic effects in humans. This product is not reported to produce reproductive effects in humans. This product is not reported to produce reproductive effects in humans.
11.5	Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product:	This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to produce teratogenic effects in humans. This product is not reported to produce reproductive effects in humans. See Section 3.3
11.6	Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices:	This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to produce teratogenic effects in humans. This product is not reported to produce reproductive effects in humans. This product is not reported to produce reproductive effects in humans. See Section 3.3 NE
11.6	Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product:	This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to produce teratogenic effects in humans. This product is not reported to produce reproductive effects in humans. See Section 3.3
11.6	Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices:	This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to produce teratogenic effects in humans. This product is not reported to produce reproductive effects in humans. See Section 3.3 NE Treat symptomatically.
11.6 11.7 11.8	Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices:	This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to produce teratogenic effects in humans. This product is not reported to produce reproductive effects in humans. This product is not reported to produce reproductive effects in humans. See Section 3.3 NE
11.6 11.7 11.8	Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations:	This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to produce teratogenic effects in humans. This product is not reported to produce reproductive effects in humans. This product is not reported to produce reproductive effects in humans. See Section 3.3 NE Treat symptomatically. This product will slowly volatile from soil. Components of this product will slowly decompose integration organic compounds.
11.6 11.7 11.8 12.1	Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability:	This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to produce teratogenic effects in humans. This product is not reported to produce reproductive effects in humans. See Section 3.3 NE Treat symptomatically. This product will slowly volatile from soil. Components of this product will slowly decompose into organic compounds. There is no specific data available for this product.
	Mutagenicity: Embryotoxicity: Teratogenicity: Reproductive Toxicity: Irritancy of Product: Biological Exposure Indices: Physician Recommendations: Environmental Stability: Effects on Plants & Animals:	This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans. This product is not reported to produce teratogenic effects in humans. This product is not reported to produce reproductive effects in humans. See Section 3.3 NE Treat symptomatically. Interview of this product will slowly volatile from soil. Components of this product will slowly decompose interview organic compounds. There is no specific data available for this product. Releases of large volumes of this product are expected to be harmful or fatal to overexposed



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	14. TRANSPORTATION INFORMATION	
	pasic description (proper shipping name, hazard class & division, ID Number, packing group) is shown for each mode of transportation tional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.	
14.1	49 CFR (GND): NOT REGULATED PER 49 CFR 173.150(f)	
14.2	IATA (AIR):	
	CONSUMER COMMODITY, 9, ID8000 (≤ 500 ml)	
	PETROLEUM DISTILLATES, N.O.S., 3, UN1268, III (> 500 ml)	
14.3	IMDG (OCN):	
	PETROLEUM DISTILLATES, N.O.S., 3, UN1268, III, LTD QTY (≤ 5.0 L) PETROLEUM DISTILLATES, N.O.S., 3, UN1268, III (> 5.0 L)	
14.4	TERROLLOW DISTILLATES, N.O.S., S, ON 1200, III (> 3.0 L)	16
	MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (≤ 5.0 L)	
	PETROLEUM DISTILLATES, N.O.S., 3, UN1268, III (> 5.0 L)	
14.5	ADR/RID (EU):	
	1268 PETROLEUM DISTILLATES, N.O.S., 3, 3°(c), ADR, LTD QTY (< 5.0 L)	
	1268 PETROLEUM DISTILLATES, N.O.S., 3, 3°(c), ADR (> 5.0 L)	
	15. REGULATORY INFORMATION	
15.1	SARA Reporting Requirements:	
	NA	
15.2	SARA Threshold Planning Quantity:	
	NA	
15.3	TSCA Inventory Status:	
	All chemical substances of this product are listed on the TSCA inventory or are otherwise exempt from inventory status.	
15.4	CERCLA Reportable Quantity (RQ):	
15.5	NA Other Federal Requirements:	
15.5	NA	
15.6	Other Canadian Regulations	
	This product has been classified according to the hazard criteria of the Controlled Products Regulations	
	(CPR) and the MSDS 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.	
15.7	State Regulatory Information:	
	The primary component of this product is not listed on the following state lists: California OSHA; California Proposition 65 Massachusetts Right to Know List of Chemicals; New Jersey Right to Know List 8:59 Appendix A; Pennsylvania Hazardous Substance	
	List 34 323 Appendix A; Wisconsin Hazardous Substances List NR 605.09; Minnesota Hazardous Substances List; and Florida Toxic	
	Substances List.	
15.8	67/548/EEC (European Union) Requirements:	
	The primary component of this product is listed in Annex I of EU Directive 67/548/EEC:	
	Petroleum Naphtha: Flammable, Harmful (F, Xn). R: 10-65 – Flammable. Harmful: may cause lung	
	damage if swallowed. S: 2-23-24-62 – Keep away from children. Do not breathe gas, fumes, vapor or spray. Avoid contact with skin. If swallowed, do not induce vomiting: seek medical advice immediately	
	and show this MSDS or the container label.	
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		16. OTHER INFORMATION
16.1	Other Information:	
16.2	Terms & Definitions:	
	See page 7 of this MSDS.	
16.3	government regulations must be review knowledge, the information contained t are not guaranteed and no warranties relates only to the specific product(s)	Tered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other wed for applicability to this product. To the best of ShipMate's & CAIG Laboratories, Inc.'s herein is reliable and accurate as of this date; however, accuracy, suitability or completeness of any type, either expressed or implied, are provided. The information contained herein . If this product(s) is combined with other materials, all component properties must be m time to time. Be sure to consult the latest edition.
16.4	Prepared for: CAIG Laboratories, Inc. 12200 Thatcher Court Poway, CA 92064-6876 +1 (800) CAIG-123 (244-4123) phone +1 (858) 486-8398 fax http://www.caig.com/	CARSE CARSES INC.
16.5	Prepared by: ShipMate, Inc. 18436 Hawthorne Blvd., Suite 201 Torrance, CA 90504 310-370-3600 phone 310-370-5700 fax http://www.shipmate.com/	ShipMate Damgerous Goods Training & Consulting



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DEFINITION OF TERMS

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

GENERAL INFORMATION:

EXPOSURE LIMITS IN AIR:

CAS No.	Chemical Abstract Service Number
---------	----------------------------------

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
TLV	Threshold Limit Value
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
IDLH	Immediately Danaerous to Life and Health

FIRST AID MEASURES:

CPR	Cardiop	oulmonc	ry resu	uscitation -	method in	which a	oerson
	whose	heart	has	stopped	receives	manual	chest
	compre	ssions a	nd bre	eathing to a	circulate bl	ood and p	rovide
	oxygen	to the b	ody.				

HEALTH

FLAMMABILITY

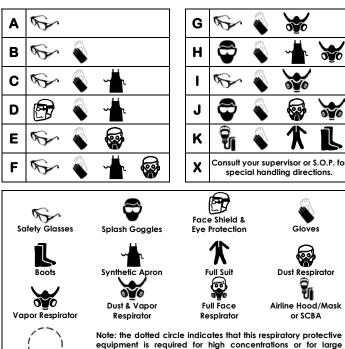
REACTIVITY PERSONAL PROTECTION

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

PERSONAL PROTECTION RATINGS:



OTHER STANDARD ABBREVIATIONS:

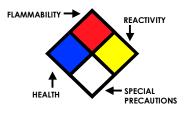
NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

volume spills or releases of product.

Autoignition	Minimum temperature required to initiate combustion
Temperature	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:

Minimal Hazard		
Slight Hazard		
Moderate Hazard		
Severe Hazard		
Extreme Hazard		
Acidic		
Alkaline		
Corrosive		
Use No Water		
Oxidizer		



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s					
LC₅0	Lethal concentration (gases) which kills 50% of the exposed animal					
ppm	Concentration expressed in parts of material per million parts					
TD _{lo}	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 of					
TC, TC _o , LC _{io} , & LC _o	toxic effects					
IARC	International Agency for Research on Cancer					
NTP	P National Toxicology Program					
RTECS	Registry of Toxic Effects of Chemical Substances					
BCF	Bioconcentration Factor					
TLm	Median threshold limit					
log Kow or log Koc	oc 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)						

EC INFORMATION:

T.		N	¥	8	*	×	×
С	E	F	N	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful