

Page 1 of 7

	Prepared to OSHA, ACC	C, ANSI, NOHSC, WHMIS & 2001/58 EC Standards	MSDS Revision: 1.0
--	-----------------------	--	--------------------

 RSE-0001

 MSDS Revision Date:
 12/15/2007

1.	PRODUCT IDEN	ITIFICATION	CHEMICAL RESPONSE CARD: 21			
1.1	Product Name:	TYRE-GRIP	RESPONSE 🙈 🎡 🐼			
1.2	Chemical Name:	Aerosol	TEAM PPE: 🛛 🍟 🛛 🖤			
1.3	Synonyms:	None reported by the manufacturer				
1.4	Trade Names:	Tyre-Grip				
1.5	Product Use:	NA	HEALTH: 2			
1.6	Manufacturer's Name:	Roncon Smith Enterprises, Inc.	FLAMMABILITY: 4			
1.7	Manufacturer's Address:	17101 South Central Ave, Suite 1J, Carson, CA 90746 USA	REACTIVITY: 0			
1.8	Business Phone:	+1 (310) 632-4395	PERSONAL PROTECTION: B			
1.9	Emergency Phone:	CHEMTREC +1 (800) 424-9300/+1 (703) 52	7-3887			
1.10	Other Product Names:					
2.1	Hazard Identification:	2. HAZARD IDENTIFICATION				
2.1	This product is clas	ssified as a HAZARDOUS SUBSTANCE and as DANGEROUS GO and ADG Code (Australia). Flammable aerosol.	OODS according to the classification criteria of			
2.2	Routes of Entry:	Inhalation: YES Absorption	n: YES Ingestion: YES			
2.3	Effects of Exposure:					
		itation, redness and tearing. Vapors may be irritating to the eye itation, defatting, drying and cracking of skin. Prolonged and re				
	<u>INGESTION</u> : May cause a burning sensation of the mouth and throat, abdominal pain, gastrointestinal irritation, nausea, vomiting and diarrhea. May also cause kidney damage, cardiac arrhythmia and Central Nervous System (CNS) effects (see inhalation). Aspiration of material into the lungs may cause chemical pneumonitis, which can be fatal. Can be fatal if inhaled or ingested. <u>INHALATION</u> : Vapors may be irritating to nose, throat and respiratory tract. Excessive inhalation of vapors may cause kidney damage, cardiac arrhythmia and Central Nervous System effects including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.					
2.4	Symptoms of Exposure:	ere avelling and to aviage				
		iess, swelling and tearing. Ittina, drvina and crackina of skin.				
	SKIN: Irritation, defatting, drying and cracking of skin. INGESTION: Burning sensation of the mouth and throat, abdominal pain, gastrointestinal irritation, nausea, vomiting and diarrhea.					
	<u>INHALATION</u> : Irritation to nose, throat and respiratory tract, dizziness, coughing, wheezing, weakness, fatigue, nausea, headache and possible unconsciousness.					
2.5	<ul> <li>Acute Health Effects:</li> <li><u>EYES</u>: May cause irritation, redness and tearing. Vapors may be irritating to the eyes. Risk of conjunctivitis.</li> <li><u>SKIN</u>: May cause irritation, defatting, drying and cracking of skin. Prolonged and repeated contact may lead to dermatitis.</li> <li><u>INGESTION</u>: May cause a burning sensation of the mouth and throat, abdominal pain, gastrointestinal irritation, nausea, vomiting and diarrhea. May also cause kidney damage, cardiac arrhythmia and Central Nervous System effects (see inhalation). Aspiration of material into the lungs may cause chemical pneumonitis, which can be fatal. Can be fatal if inhaled or ingested.</li> <li><u>INHALATION</u>: Vapors may be irritating to nose, throat and respiratory tract. Excessive inhalation of vapors may cause kidney damage, cardiac arrhythmia discributed to the system effects.</li> </ul>					
2.6	Chronic Health Effects:	ed skin contact may lead to dermatitis.				
2.7	Target Organs: Eyes, skin and respir	ratory system.				
		ermined; NE = Not Established; NF = Not Found; NF = Not Found; NF = Not Found; NF = s of Terms Used_NOTE: all WHMIS required information is included. It is located in app				



Page 2 of 7

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0

 RSE-0001

 MSDS Revision Date:
 12/15/2007

		3. CO	MPOSITIO	N & INGRI	EDIEN1	[ INF	ORN	ATIC	)N					
								EXPOSURE LIMITS IN AIR (mg/m <sup>3</sup>		3)				
			ACGIH		GIH		NOHSO	2		OSHA				
						pp	om		ppm			ppm	<u> </u>	OTHER
	CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	TLV	STEL	IDLH	
LIQUE	FIED PETROLEUM GAS	68476-86-8	NA	270-705-8	≤ <b>45.0</b>	NA	NA	800	NF	NF	NA	NA	NA	ASPH
	OPANOL	67-63-0	NT8050000	200-661-7	≤ 45.0	400	500	400	500	NF	400	500	NA	7.5111
ROSIN	-	8050-09-7	VL0480000	232-475-7	≤ 30.0	NA	NA	NF	NF	NF	NA	NA	NA	
-	RIETARY ROSIN	NA	NA	NA	≤ 30.0	NA	NA	NF	NF	NF	NA	NA	NA	
D-LIM	ONENE	5989-27-5	GW6360000	227-813-5	≤ 10.0	NA	NA	NF	NF	NF	NA	NA	NA	
TRIETH	IANOLAMINE	102-71-6	KL9275000	203-049-8	≤ 1.0	NA	NA	(5)	NF	NF	NA	NA	NA	
			4. F	IRST AID N	AEASU	RES								
4.1	First Aid:													
	EYES: Immediately flush			vater for at lea	ist 15 min	utes, li	ifting u	pper a	nd lov	er lids	, occa	sional	y. If ir	ritation
	persists, repeat flushing.							<b>D</b>				-1-11-1		
	<u>SKIN</u> : Wash thoroughly before reuse.	with soap and	water. It irrita	tion persists, se	eek med	ical af	tentior	i. Kem	ove c	ontam	inated	Clothi	ng and	a wash
	INGESTION: Do not incl	ude vomitina. H	lave consciou	s person rise o	out mouth	ı with v	vater. 1	hen dr	ink 1 c	or 2 ala	sses o	f wateı	. Nev	er aive
	an unconscious persor													
	breathing in the vomitu													
	into the lungs. Aspira immediate medical atte		il into lungs d	lue to vomitin	g may o	cause	chem	ical pi	neumo	onitis w	hich o	can be	e fatal	. Get
	INHALATION: Remove		on to fresh air	lf breathing	ı if difficı	ult ad	ministe	er oxvo	ien	lf brea	thina	stops	aive a	rtificial
	respiration. Keep perso				,	,			,				u	
4.2	Medical Conditions Aggravate	5						HEA	LTH					2
	Pre-existing respiratory conditions, dermatitis and other skin disorders, central nervous					4								
	aggravated by exposure			organs (see	Section 2	., ) 110	,							-
							ļ	REA						0
								PRO	TEC	ΠΛΕ	EQU	IPME	NT	В
	EYES SKIN													
			5. FIRE	FIGHTING	MEA	SURE	S							
5.1	Flashpoint & Method:		••••		· ···		•							
	Liquid Mixture: -7.0 °C (2	21.6 °F), COC P	ropellant: -104	°C (-155°F), CC	DC									
5.2	Autoignition Temperature:													
5.3	NA Flammability Limits:			osivo Limit (LEL	١.	ND	1	Uppo	Evolo	sive Lir	oit (LIEI	1.).	N	
5.4	Fire & Explosion Hazards:		rowei exbi	osive Limit (LEL		ND		uppel	схрю	sive Lir	ini (UE	∟).		ID
0.1	This product is an extre	mely flammable	e aerosol. Co	ntainers of this	product	may	exploc	le in h	eat of	fire.				
	This product also conto			•					-					
	enclosed spaces, heate		-		•	•	-							
	below the flash point. trace oxides of sulfur a													
	hydrogen sulfide can b		so, acpending		namonij			oncer	anor			<u> </u>		
5.5	Extinguishing Methods:													
	Dry chemical, foam, ca	ırbon dioxide, a	nd water fog.									۷ ۲		/
5.6	Firefighting Procedures:											$\overline{}$		
	Keep containers cool u protect personal. Avoi						•					1	/	
	Prevent runoff from fire													
	natural waterway. Firef													
	contained breathing a		otect against	potential haze	ardous c	ombus	stion o	r deco	ompos	ition				
	products and oxygen d	ericiencies.												



Page 3 of 7 RSE-0001

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0

MSDS Revision Date:

12/15/2007

## 6. ACCIDENTAL RELEASE MEASURES

6.1 Spills

### Eliminate all possible sources of ignition.

<u>Small Spills</u>: A release of a single container or several containers presents a minimal hazard. Allow containers to vent and remove container for appropriate disposal. If any liquid remains, wash contaminated area with soap and water, absorb with paper towels, and rinse with water.

Large Spills: If a large quantity of containers of this product is involved, evacuate immediate area. Trained personnel using pre-planned procedures should respond to uncontrolled releases. Proper protective equipment should be used. If a large quantity of product is involved, the minimum Personal Protective Equipment (PPE) should be Level B: Self-Contained Breathing Apparatus. Allow the gas to dissipate. Monitor the surrounding area for the level of oxygen and level of combustible vapors. The atmosphere must have at least 19.5 percent oxygen before personnel can be allowed in the area without Self-Contained Breathing Apparatus. Monitor area and confirm levels are bellow exposure limits given in Section 8 (Exposure Controls-Personal Protection), if applicable, before non-response personnel are allowed into the spill area. Clean up spilled product using appropriate absorbent material (e.g., sand, diatomaceous earth, peat).

<u>Mitigation and Disposal</u>: Place all spill residue in an appropriate container and seal. Decontaminate the area thoroughly. If necessary, discard all stained response equipment or rinse with soapy water before returning such equipment to service. Do not mix with wastes from other materials. Dispose of in accordance with applicable Federal, provincial, State, and local regulations (see Section 13). For spills on water, contain, minimize dispersion and collect. Dispose of recovered material and report spill per regulatory requirements, if necessary. Dispose of through an authorized waste transporter and treatment/storage/disposal facility (TSDF).

## 7. HANDLING & STORAGE INFORMATION

 7.1
 Work & Hygiene Practices:

 Wear gloves, glasses and self-contained mask. Warn about risk of vapor inhalation. Wash hands with water and soap immediately after handling then rinse in case of contact. When using, do not eat, drink or smoke.

 7.2
 Storage & Handling:

Storage & Handling:
 Use and keep away from flame, heat sources and functioning electrical devices. Use in a well ventilated area. Store in original packaging. Keep out of reach of children. Do not store in temperatures above 50°C. Keep out of direct sunlight.

### 7.3 Special Precautions

Do not spray on a naked flame or any incandescent material. When using do not smoke. Avoid breathing vapors or spray mists. Avoid any contact.

## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1 Ventilation & Engineering Controls Avoid breathing the vapors generated by this product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans. Do not eat, drink, or smoke while handling this product. Ensure eyewash/safety shower stations are available near areas where this product is used. Use a non-sparking, grounded, explosion-proof ventilation system separate from other exhaust ventilation systems. Exhaust directly to ambient air, taking necessary precautions for environmental protection. Supply sufficient replacement air to make up for air removed by exhaust systems. 8.2 Respiratory Protection: Maintain airborne contaminant concentrations below exposure limits listed above if applicable. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134) and equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, European Standard EN 529:2005 and Respiratory Protection Standards of EU member states, or Australia. Oxygen levels below 19.5% are considered by U.S. OSHA to be Immediately Dangerous to Life or Health (IDLH). In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary selfcontained air supply is required under OSHA's Respiratory Protection Standard (1910.134-1998). 8.3 Eve Protection: Splash goggles or safety glasses. If necessary, refer to U.S. OSHA 29 CFR 1910.133, the Canadian CSA Standard Z94.3-M1982, Industrial Eye and Face Protectors, or the requirements of European Standard CR 13464:1999 or equivalent Australian standards for additional information. Hand Protection: 8.4 Wear butyl rubber, Teflon™, Barricade™, Chemrel™, or similar gloves for routine industrial use. Use triple gloves for spill response, as stated in Section 6 (Accidental Release Measures) of this MSDS. If necessary, refer to U.S. OSHA 29 CFR 1910.138, appropriate Standards of Canada, or European Standard CEN/TR 15419:2006 or equivalent Australian standards. 8.5 Body Protection: When chemical contact is possible, use splash apron, work uniform, and shoes or coverlets to prevent skin contact. Full-body chemical protective clothing is recommended for emergency response procedures. If necessary, refer to appropriate Standards of Canada or the European Standard CEN/TR 15419:2006, for further information. If a hazard of injury to the feet exists due to falling

objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136 and the Canadian CSA Standard Z195-M1984, *Protective Footwear*.



Page 4 of 7 **RSE-0001** 

					3L-0001	
Prep	pared to OSHA, ACC, ANSI, I	NOHSC, WHMIS & 2001/58 EC Standards N	ASDS Revision: 1.0	MSDS Revision Date:	12/15/200	
	1	9. PHYSICAL & CHEMIC	AL PROPERTIES			
1	Density:	0.9305				
2	Boiling Point:	ND				
3	Melting Point:	ND				
1	Evaporation Rate:	ND				
5	Vapor Pressure:	ND				
5	Molecular Weight:	NA				
	Appearance & Color:	Aerosol, Clear Liquid				
}	Odor Threshold:	Citrus odor				
)	Solubility:	ND				
0	рН	ND				
1	Viscosity:	ND				
2	Other Information:	NA				
		10. STABILITY & RE	ACTIVITY			
.1	Stability:					
	5	stable under normal conditions of storage a	ind use.			
2	Hazardous Decomposition Product					
	Fumes, smoke, carbon mo	noxide, and trace hydrocarbons.				
3	Hazardous Polymerization:					
	Will not occur.					
4						
5		uct to temperatures above 140°C.				
<ul> <li>Incompatible Substances:</li> <li>Strong oxidizing agents.</li> </ul>						
		11. TOXICOLOGICAL I	INFORMATION			
.1	Toxicity Data:					
	This product was not teste LD50 (Oral-Rat) 4400 mg/kg	d on animals; however, toxicity data is avail g; Isopropanol - LD50 (oral, rat) = 5045 mg/kg	•	•		
.2						
.3	Chronic Toxicity:					
	Dermatitis (inflammation a sensitizers and suspect res	nd redness of the skin) may occur after chi piratory sensitizers.	ronic, low-level skin co	ntact. This product cont	ains known s	
4	Suspected Carcinogen:					
	•	oonents of this product are listed by age (Not Classifiable as to Carcinogenicity to H arcinogen)		•		
.5	Reproductive Toxicity:					
	Mutagenicity:	This product is not reported to cause r	mutagenic effects in hu	mans.		
	Embryotoxicity:	A component in this product (isoprobased on animal test data.	•		ects in huma	
	Teratogenicity:	This product is not reported to cause t	teratogenic effects in hi	imans.		
	Reproductive Toxicity:	This product is not reported to cause r				
6	Irritancy of Product:					
-	See section 2.3					
.7	Biological Exposure Indices:					
	NA					
0	Physician Recommendations:					
.8	Treat symptomatically.					



121

12.2

12.3

13.1

13.2

14.1

14.2

14.3

14.4

14.5

14.6

14.7

# MATERIAL SAFETY DATA SHEET

Page 5 of 7 **RSE-0001** 

MSDS Revision Date: Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 12/15/2007 12. ECOLOGICAL INFORMATION Environmental Stability: The Koc of Isopropanol is estimated at 25, using a measured log Kow of 0.05 and a regression-derived equation. According to a classification scheme, this estimated Koc value suggests that Isopropanol is expected to have very high mobility in soil. Based on the water solubility of (D)-limonene, 13.8 mg/L at 25°C and an estimated log octanol/water partition coefficient of 4.232, soil adsorption coefficients of 1030 and 4780, respectively, can be calculated using appropriate regression equations. These values indicate that (D)-limonene is expected to display slight to low mobility in soil. The K<sub>oc</sub> of Triethanolamine is estimated at 7, using a log K<sub>ow</sub> of -1.00 and a regression-derived equation. According to a classification scheme, this estimated Koc value suggests that Triethanolamine is expected to have very high mobility in soil. The pKa of Triethanolamine is 7.76, indicating that this compound will primarily exist in cation form in the environment and cations generally adsorb to organic carbon and clay more strongly than their neutral counterparts. This product has not been tested for persistence and biodegradability. Effect on Plants & Animals This product has not been tested for bio-accumulation. Effect on Aquatic Life: This product has not been tested for bio-accumulation. All releases to the environment must be avoided. The following are data available for the following components of this mixture: d-Limonene -  $LC_{50}$  (daphnia magna water flea) 48 hours = 0.577 mg/L; Isopropanol - LC₅₀ (daphnia magna) 24 hours = 9,500 mg/L; Triethanolamine - LC₀ (Daphnia magna) = 2,500 mg/L 13. DISPOSAL CONSIDERATIONS Waste Disposal It is the responsibility of the generator to determine at the time of disposal whether the product meets the criteria of a hazardous waste per applicable laws and regulations of the state, province, or region in which the waste is generated and/or disposed of. Waste disposal must be in accordance with appropriate Federal, State, Provincial and local regulations. This product, if unaltered by use, may be disposed of by treatment or incineration at a permitted facility or as advised by your local hazardous waste regulatory authority. Shipment of wastes must be done with appropriately permitted and registered transporters. Special Considerations U.S. EPA Characteristic Waste (Flammable) – D001; European Waste Codes: 14 06 03; 08 Waste organic solvents, refrigerants, and foam/aerosol propellants, other solvents and solvent mixtures. 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, SCT, ADGR and the CTDGR. 49 CFR (GND) CONSUMER COMMODITY, ORM-D IATA (AIR) ID8000, CONSUMER COMMODITY, 9 ( $x \le 0.5 L$ ) UN1950, AEROSOLS, 2.1, LTD QTY ( $0.5 L < x \le 1.0 L$ ) IMDG (OCN) ONSUMER COMMODITY UN1950, AEROSOLS, 2.1, LTD QTY ( $x \le 1.0$  L) ORM-D **TDGR** (Canadian GND) MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (x ≤ 1.0 L) ADR/RID (EU) UN1950, AEROSOLS, 2.1, ADR, LTD QTY ( $x \le 1.0$  L) MEXICO (SCT) UN1950, AEROSOLES, 2.1, CANTIDAD LIMITADA ( $x \le 1.0$  L) ADGR (AU) UN1950, AEROSOLS, 2.1, LTD QTY ( $x \le 1.0$  L), HAZCHEM CODE: 2[Y]E



Page 6 of 7 **RSE-0001** 

Prep	Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 MSDS Revision Date: 12/15/2007						
	1	5. REGULATORY	INFORMATION				
15.1	SARA Reporting Requirements: This product does not contain any substa	nces subject to SARA repo	orting requirements.				
15.2	SARA Threshold Planning Quantity:						
15.3	TSCA Inventory Status: The components of this product are listed	on the TSCA inventory.					
15.4	CERCLA Reportable Quantity (RQ):						
15.5	Other Federal Requirements: <b>NA</b>						
15.6	Other Canadian Regulations All chemical substances of this product of requirements. This product has been clo the MSDS contains all of the information re	issified according to the h			Ţ		
15.7	State Regulatory Information:						
15.8							
	incustres against state asertaiges.						
		16. OTHER INFO	ORMAIION				
16.1	Other Information: NA						
16.2	Terms & Definitions: See last page of this Material Safety Data	Sheet.					
16.3	Disclaimer:						
10.0	This Material Safety Data Sheet is offer government regulations must be review. knowledge, the information contained he is not guaranteed and no warranties of a only to the specific product(s). If this pu- Data may be changed from time to time	ed for applicability to this erein is reliable and accur ny type, either expressed roduct(s) is combined wit	s product. To the best of S ate as of this date; however or implied, are provided. Th h other materials, all comp	hipMate's & Roncon Smi ; accuracy, suitability or e information contained	th Enterprises' completeness herein relates		
16.4	Prepared for:						
	Roncon Smith Enterprises, Inc. 17101 South Central Ave, Suite 1J Carson, CA 90746 USA Phone: +1 (310) 632-4395 Fax: +1 (360) 248-8347 e-mail: Ronald.smith@tyre-grip.com	TYRE GRI	5				
16.5	Prepared by: ShipMate, Inc. Pacific Northwest Office P.O. Box 787 Sisters, OR 90504 USA Phone: +1 (310) 370-3600 Fax: +1 (310) 370-5700 e-mail: shipmate@shipmate.com	ShipMate Dangerous Goods Training & Consulting					



Page 7 of 7

**RSE-0001** 

04/01/2007

MSDS Revision Date:

#### Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 1.0 **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:**

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

### **EXPOSURE LIMITS IN AIR:**

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

### 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.						

HEALTH

FLAMMABILITY

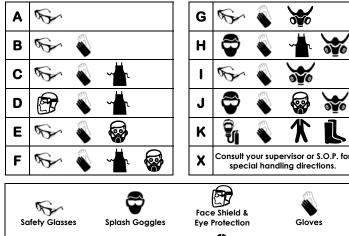
REACTIVITY PERSONAL PROTECTION

#### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

### HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

### PERSONAL PROTECTION RATINGS:





**Full Face Respirator** 















Gloves

50

56

Ň

Airline Hood/Mask or SCBA

Note: the dotted circle indicates that this respiratory protective equipment is required for high concentrations or for large volume spills or releases of product.

### OTHER STANDARD ABBREVIATIONS:

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

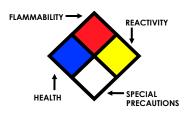
#### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

#### FLAMMABILITY LIMITS IN AIR:

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:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
₩-	Use No Water
OX	Oxidizer



#### TOXICOLOGICAL INFORMATION:

LD <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s				
LC <sub>50</sub>	Lethal concentration (gases) which kills 50% of the exposed animal				
ppm	Concentration expressed in parts of material per million parts				
TD <sub>lo</sub>	Lowest dose to cause a symptom				
TCLo	Lowest concentration to cause a symptom				
TD <sub>Io</sub> , LD <sub>Io</sub> , & LD <sub>o</sub> or	<b>D</b> <sub>o</sub> or Lowest dose (or concentration) to cause lethal or				
TC, TC <sub>o</sub> , LC <sub>io</sub> , & LC <sub>o</sub>	toxic effects				
IARC	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	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	<b>EU</b> European Union (European Union Directive 67/548/EEC)					

#### EC INFORMATION:

<b>N</b>		1×	Ł	8	<b>*</b>	×	×
С	E	F	Ν	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful