

Page 1 of 6 **HWN-006**

Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, EU & GHS Standards

SDS Revision: 2.1

		1.	PRODUC	Т & СОМ	PANY	IDE	NTIF			N				
1.1	Product Name:		LOR HO											
1.2	Chemical Name:	Tinctures Me												
1.3	Synonyms:	NA	alonial											
1.4	Trade Names:	Dr. Naylor Ho	oof-N-Heel											
1.5	Product Use:	,	narmaceutical											
1.6	Distributor's Name:		Company, Inc.											
1.7	Distributor's Address:		eet, Morris, Nev	w York 13808	USA									
1.8	Emergency Phone:	CHEMTEL	.: +1 (800) 2	255-3924										
1.9	Business Phone / Fax:	Tel: +1 (607)	217-0011 Fax:	+1 (866)-819	-5812									
			2 44	ZARDS		FIC		N						
2.1	Hazard Identification:	Droporod in a							adad t	0.00m		h Ocl	14 20 C	EP 1010 1200
- 2.2	Label Flamanta	Canadian WH DANGER! HA TO AQUATIC Classification	Prepared in accordance with UN Globally Harmonized standards. Intended to comply with OSHA 29 CFR 1910.120 Canadian WHMIS and Australian Work Health and Safety DANGER! HARMFUL IF SWALLOWED. CAUSES SERIOUS EYE DAMAGE. CAUSES SKIN IRRITATION. HARMFU TO AQUATIC LIFE. Classification: Acute Tox. 4 (oral), Eye Dam. 1, Skin Irrit. 2, Aq. Acute 3											
2.2	Label Elements:	Hazard Statements (H): H302 – Harmful if swallowed. H318 – Causes serious eye damage. H315 – Causes skin irritation. H402 – Harmful to aquatic life. Precautionary Statements (P): P264+P265 – Wash exposed skin areas thoroughly with soap and water after handling. Do not touch eyes. P270 – Do not eat, drink, or smoke when using this product. P273 – Avoid release to the environment. P280 – Wear eye protection/face protection. P301+P317 – IF SWALLOWED: Get medical help. P330 – Rinse mouth. P302+P352 – IF ON SKIN: Wash with plenty of soap and water. P305+P354+P338 – IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P317 – Get medical help. P321 – Specific treatment see this container label or section 4 (first aid) of this SDS. P332+P317 – If skin irritation occurs: Get medical help. P362+P364 – Take off contaminated clothing and wash it before reuse. P501 – Dispose of contents/container to a licensed treatment, storage, or												
2.3	Other Warnings:	disposal facili	OF REACH OF	CHILDREN.										
		3 ()	OMPOSITI											
		<u> </u>					1111					I AIR (mg	n/m ³)	
						AC	GIH		NOHSC			OSH/		
						р	pm		ppm			ppm		
CHEMI	CAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	OTHER
PROP	RIETARY	NA	NA	NA	80-100	NA	NA	NF	NF	NF	NA	NA	NA	
		7446-20-0	ZH5300000	616-097-3	10-20	NA	NA	NF	NF	NF	NA	NA	NA	
	SULFATE HEPTAHYDRATE		ral); Eye Dam. 1; .											
SODI	JM DODECYL SULPHATE		WT1050000		≤ 5.0					NF	NA	NA	NA	
CODIC		Acute Tox. 4 (or	ral); Skin Irrit. 2; E	Eye Dam. 1; Aqu	atic Chronic	3; H30	2, H315	5, H318	, H412					
				FIRST AI										
4.1	First Aid:	-	If ingested, do r Provide an esti was swallowed	imate of the ti	me at whic	h the	materia	al was	ingest	ed an	d the a	amoun	t of the	substance that
			If product gets i close eyelid(s) immediate med	to ensure tho	rough irriga									
			If irritation occu washing of the footwear and w immediately.	affected area	with plent	y of so	bap an	d wate	r. Re	move	all cor	Itamina	ated clot	hing, including
		Inhalation:	Remove victim	to fresh air at	anaa Ifbra	- 41- 5			rm arti	finial re	onirat	ion C	a a le ima ma	ediate medical



Page 2 of 6 **HWN-006**

Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, EU & GHS Standards

SDS Revision: 2.1 SDS Revisio

	Effects of Exposure:	Ingestion:	If product is swallowed, may cause nausea, vomiti	ng and/or	diarrhea and	central nervo	ous syste	
		depression. Eyes: The liquid may produce eye discomfort and is capable of causing temporary impairment of vision and/or transient eye inflammation, ulceration. The vapor is discomforting to the eye. Splashes may cause severe						
			eye irritation, possible corneal burns and eye damage overexposure may include redness, itching, irritation and		ly irritating to	the eyes. S	ymptoms	
		<u>Skin</u> :	May be irritating to skin, especially after prolonged cont (e.g., rashes, welts, dermatitis) upon prolonged or repea	ited exposu	re.	Ū		
		Inhalation:	Vapors of this product may be moderately irritating to the system. Symptoms of overexposure can include coubreathing. Inhalation of concentrated vapors can of drowsiness, dizziness, headaches, nausea). Odor may may occur.	ghing, whe cause cent	ezing, nasal al nervous s	congestion, a system depre	nd difficu ssion (e.	
4.3	Symptoms of Overexposure:	cause redne	f skin overexposure may include redness, itching, and irrit ss, itching and watering. The product can cause allergic repeated exposure.					
1.4	Acute Health Effects:		tation to eyes and skin near affected areas. Additionally, h adaches and nausea.	igh concent	rations of vap	ors can cause o	drowsine	
4.5	Chronic Health Effects:		may accentuate any pre-existing dermatitis condition. M may be a mild allergen to some sensitive individuals.	ethylparabe	n contained i	n very small ar	nounts in	
1.6	Target Organs:		Respiratory System.					
4.7 Medical Conditions Aggravated by Exposure:			dermatitis, other skin conditions, and disorders of the s (eyes, skin, and respiratory system).	HEALTH			2	
			(-)		ABILITY AL HAZAR	DS	1	
					CTIVE EQU		В	
				EYES	SKIN			
.2	Extinguishing Methods:		l, CO ₂ , Dry Chemical	vre muet w	ar full proto			
5.3	Firefighting Procedures:	equipment a runoff water	ders should wear eye protection. Structural fire fighted nd MSHA/NIOSH-approved self-contained breathing ap from entering storm drains, bodies of water, or other envir nse contaminated equipment with soapy water before ret	paratus. If onmentally	possible, pre sensitive area	vent		
				DEC				
6.1	Spills:	1	6. ACCIDENTAL RELEASE MEASU ing any spill or leak, individuals involved in spill clea		wear approp	riate Personal	Protect	
6.1	Spills:	Before clear Equipment. For <u>small sp</u> equipment (material (e.c container(s) containers for affected area thoroughly b	6. ACCIDENTAL RELEASE WEASU ing any spill or leak, individuals involved in spill clea- ills (e.g., < 1 gallon (3.8 L)) or <u>large spills</u> (e.g., \ge 1 ga a.g., goggles, gloves). Maximize ventilation (open door b, sand or earth). Remove spilled material with absor- for disposal. Transfer liquid to containers for recovery or proper disposal. Dispose of properly in accordance v is and outside of container with plenty of warm water and se efore reuse. Remove contaminated clothing promptly a nd cleaning runoffs out of drains, municipal sewers and o	anup must illon (3.8 L) s and wind bent mater or disposal vith local, s soap. Remo nd wash aff) wear appro ows). Dike an ial and place and solid di tate and fede ve any contar rected skin ar	priate persona nd contain spi e into appropr king material eral regulation ninated clothin	al protect ill with in riate clos to separa s. Wash ng and wa	
6.1	Spills:	Before clear Equipment. For <u>small sp</u> equipment (i material (e.g container(s) containers fo affected area thoroughly b Keep spills a	ing any spill or leak, individuals involved in spill cleat ills (e.g., < 1 gallon (3.8 L)) or <u>large spills</u> (e.g., \ge 1 ga a.g., goggles, gloves). Maximize ventilation (open door i., sand or earth). Remove spilled material with absor- for disposal. Transfer liquid to containers for recovery or proper disposal. Dispose of properly in accordance v is and outside of container with plenty of warm water and a efore reuse. Remove contaminated clothing promptly a nd cleaning runoffs out of drains, municipal sewers and o	anup must illon (3.8 L) s and wind bent mater or disposal vith local, s soap. Remo nd wash afi pen bodies) wear appro ows). Dike and ial and place and solid di tate and fede ve any contar fected skin ar of water.	priate persona nd contain spi e into appropr king material eral regulation ninated clothin eas with soap	al protect ill with in riate clos to separa s. Wash og and wat	
-	Spills: Work & Hygiene Practices:	Before clear Equipment. For <u>small sp</u> equipment (i material (e.g container(s) containers for affected area thoroughly b Keep spills a 7 Avoid prolot	ing any spill or leak, individuals involved in spill cleat ills (e.g., < 1 gallon (3.8 L)) or <u>large spills</u> (e.g., \ge 1 ga a.g., goggles, gloves). Maximize ventilation (open door i., sand or earth). Remove spilled material with absor- for disposal. Transfer liquid to containers for recovery or proper disposal. Dispose of properly in accordance v is and outside of container with plenty of warm water and se efore reuse. Remove contaminated clothing promptly a nd cleaning runoffs out of drains, municipal sewers and o HANDLING & STORAGE INFORMA nged contact with the product. Avoid breathing vapors of st ventilation, fans). After use, wash hands and exposed s	anup must illon (3.8 L) s and wind bent mater or disposal vith local, s soap. Remo nd wash aff pen bodies ATION this product) wear appro ows). Dike and ial and place and solid di tate and fede ve any contar fected skin ar of water.	priate persona nd contain spi e into appropr king material eral regulation ninated clothin eas with soap	al protect ill with in riate clos to separa s. Wash ag and wat and wat cation (e.	
6.1 7.1 7.2		Before clear Equipment. For <u>small sp</u> equipment (i material (e.g. containers for affected area thoroughly b Keep spills a 7 . Avoid proloo local exhaus while handli Keep this m closed tight should be h	ing any spill or leak, individuals involved in spill cleat ills (e.g., < 1 gallon (3.8 L)) or <u>large spills</u> (e.g., \ge 1 ga a.g., goggles, gloves). Maximize ventilation (open door i., sand or earth). Remove spilled material with absor- for disposal. Transfer liquid to containers for recovery or proper disposal. Dispose of properly in accordance v is and outside of container with plenty of warm water and se efore reuse. Remove contaminated clothing promptly a nd cleaning runoffs out of drains, municipal sewers and o HANDLING & STORAGE INFORMA nged contact with the product. Avoid breathing vapors of st ventilation, fans). After use, wash hands and exposed s	anup must Illon (3.8 L) s and wind bent mater or disposal vith local, s soap. Remo nd wash aff pen bodies ATION this product kin with soa mounts of t n, away fron) wear appro ows). Dike an ial and place and solid di tate and fed we any contar fected skin ar of water. . Use in a we p and water. I wly on a stabl his product; th n direct sunlig	priate persona nd contain spi e into appropr king material eral regulation ninated clothin eas with soap dl-ventilated loo Do not eat, drir e surface. Kee herefore, empty	al protect ill with in riate clos to separa s. Wash ig and was and was and was cation (e nk or smo p contain y contain	



Page 3 of 6 **HWN-006**

Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, EU & GHS Standards

SDS Revision: 2.1

0 1	Exposure Limiter	8. EXPOSURE CONT	1								OTHER
8.1	Exposure Limits: ppm (mg/m ³)	CHEMICAL NAME(S)	TLV		ES- TWA	NOHSC ES- STEL	ES- PEAK	PEL	OSHA STEL	IDLH	OTHER
8.2	Ventilation & Engineering Controls:	NA When working with large quantitie that an eyewash station, sink or								NA ust vent	ilation, fans). Ensi
8.3	Respiratory Protection:	No special respiratory protection instances where vapors or spray needed, use only protection auth the Canadian CAS Standard Z94 member States, or Australia.	is requis of this orized l	ired und s produc by 29 Cf	er typical t are gen FR §1910	circums erated, a).134, ap	tances of Ind respira plicable U	use or h atory pro	andling tection e regula	is itions, or	
8.4	Eye Protection:	product. Always use protective e	Wear protective eyewear (e.g., safety glasses with side-shield) at all times when handling this product. Always use protective eyewear when cleaning spills or leaks. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants.								
8.5	Hand Protection:	If anticipated that prolonged & repeated skin contact will occur during use of this product, wear latex or rubber gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the EU member states.									
8.6	Body Protection:	However, no special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the EU member states, or U.S. OSHA.									
		9. PHYSICAL	& CI	IEMI	CAL P	ROP	ERTIE	S			
9.1	Appearance:	Colorless to off-white, clear to sli									
9.2	Odor:	Odorless	<u> </u>	.,							
9.3	Odor Threshold:	NA									
9.4	pH:	NA									
9.5	Melting Point/Freezing Point:	NA									
9.6	Initial Boiling Point/Boiling Range:	NA									
9.7	Flashpoint:	>100 °C (>212 °F)									
9.8	Upper/Lower Flammability	NA									
0.0	Limits:										
9.9	Vapor Pressure:	1 hPa (1 mm Hg)									
9.10 9.11	Vapor Density: Relative Density:	NA									
9.11	Solubility:	NA									
9.12	Partition Coefficient (log Pow):	Soluble NA									
9.14	Autoignition Temperature:										
9.15	Decomposition Temperature:	NA									
9.16	Viscosity:	NA									
9.17	Other Information:	NA									
		10. STA	BILI	TY &	RFAC		Υ				
10.1	Stability:	Relatively stable under ambient of					-				
10.2	Hazardous Decomposition Products:	If exposed to <u>extremely high ter</u> gases (e.g., oxides of carbon & r	nperatu	<u>res</u> , pro			decompos	sition ma	ay inclu	de irritat	ing vapors and to
10.3	Hazardous Polymerization:	Will not occur.									
10.4	Conditions to Avoid:	Exposure or contact to extreme t	empera	tures, ir	ncompatik	ole chem	icals, stro	ng light	sources	, sparks	, flame.
10.5	Incompatible Substances:	Strong oxidizers, peroxides or str	rong ac	ids.							
		11. TOXICO	LOG		. INFC	RMA	TION				
11.1	Routes of Entry:	Inhalation: YES				1	ES			ngestion:	YES
11.2	Toxicity Data:	This product has NOT been teste available for some of the compor				oxicology	/ data. To		y data, f	ound in	
11.3	Acute Toxicity:	See Section 4.4	, -								
11.4	Chronic Toxicity:	See Section 4.5									
11.5	Suspected Carcinogen:	No.									
11.6	Reproductive Toxicity:	This product contains 8-hydroxyd	quinolin	e which	may dam	nage the	unborn ch	nild.			
	Mutagenicity:	This product is not reported to pr									
	Embryotoxicity:	This product is not reported to pr	oduce e	embryot	oxic effec	ts in hur	nans.				
	Teratogenicity:	This product is not reported to ca									
	Reproductive Toxicity:	This product is not reported to ca	iuse rep	oroductiv	/e effects	in huma	ins.				
11.7	Irritancy of Product:	See Section 4.3									
	Distantiant Francisco Indiana										
11.8	Biological Exposure Indices:	NE									



12.1

12.2

12.3

13.1

13.2

14.1

14.2

14.3

14.4

14.5

14.6

14.7

14.8

15 1

15.2

15.3

15.4

15.5

15.6

15.7

15.8

Page 4 of 6 **HWN-006**

SAFETY DATA SHEET Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, EU & GHS Standards SDS Revision: 2.1 SDS Revision Date: 9/29/2023 12. ECOLOGICAL INFORMATION Environmental Stability: The components of this product will slowly degrade over time into a variety of organic compounds. Specific environmental data available for the components of this product are as follows: Effects on Plants & Animals: There are no specific data available for this product. Effects on Aquatic Life: There are no specific data available for this product. Information available about ingredient: Zinc Sulfate Heptahydrate: Toxicity to fish - static test LC50-pimephales promelas (fathead minnow) - 0.330mg/L 96 hr. Toxicity to daphnia and other aquatic invertebrates - static test EC₅₀-Damhnia magna (water flea) - 1.4 mg/L 48 hr. Toxicity to algae - ED₅₀ - Chlorella vulgaris (freshwater algae) - 64.8 mg/L -72hr. Toxicity to bacteria - Static test EC₅₀ activated sludge – 5.2 mg/L 3hr. 13. DISPOSAL CONSIDERATIONS Waste Disposal: Waste disposal must be in accordance with appropriate Federal, state, and local regulations 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. 49 CFR (GND): UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (zinc sulfate \bigcirc heptahydrate), 9, III, MARINE POLLUTANT (LTD QTY - IP VOL ≤ 5.0 L) ₫. IATA (AIR): UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (zinc sulfate heptahydrate), 9, III, MARINE POLLUTANT (LTD QTY - IP VOL ≤ 5.0 L) IMDG (OCN): UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (zinc sulfate heptahydrate), 9, III, MARINE POLLUTANT (LTD QTY - IP VOL ≤ 5.0 L) TDGR (Canadian GND): UN3082. ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (zinc sulfate heptahydrate), 9, III, MARINE POLLUTANT (LTD QTY - IP VOL ≤ 5.0 L) ADR/RID (EU): UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (zinc sulfate heptahydrate), 9, III, MARINE POLLUTANT (LTD QTY - IP VOL ≤ 5.0 L) SCT (MEXICO): UN3082, SUSTANCIA LIQUIDA POTENCIALMENTE PELIGROSA PARA EL MEDIO AMBIENTE, N.E.P. (zinco sulfato heptahidrato), 9, III, CONTAMINANTE MARINO (CANT LTDA - IP VOL ≤ 5.0 L) ADGR (AUS): UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (zinc sulfate heptahydrate), 9, III, MARINE POLLUTANT (LTD QTY - IP VOL ≤ 5.0 L) NOTES THIS PRODUCT IS EXCEPTED FROM REGULATION WHEN THE MAX NET QUANTITY PER PACKAGE DOES NOT EXCEED 5.0 L 15. REGULATORY INFORMATION SARA Reporting This product contains Zinc Sulfate Heptahydrate, a substance subject to SARA Title III, Section 313 reporting Requirements requirements There are no specific Threshold Planning Quantities for the components of this product. SARA Threshold Planning Quantity: TSCA Inventory Status: The components of this product are listed on the TSCA Inventory or are otherwise exempt. CERCLA Reportable Quantity NA (RQ): Other Federal Requirements This material does not contain any hazardous air pollutants. None of the components in this product are listed as priority pollutants under the CWA. None of the components in this product are listed as toxic pollutants under the CWA. Other Canadian Regulations: This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR. 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). State Regulatory Information: No ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA). Washington Permissible Exposures List (WA). Wisconsin Hazardous Substances List (WI). This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information, go to www.P65warnings.ca.gov. Other Requirements: This product is found on the following inventory lists: Australia - AICS, China - IECSC, Europe - ELINCS/EINEC, Japan - ENCS; Korea - KECI; New Zealand - NZIOC; Philippines - PICCS; USA - TSCA



SAFETY DATA SHEET

Page 5 of 6 **HWN-006**

Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, EU & GHS Standards

SDS Revision: 2.1

		16. OTHER IN	FORMATION
16.1	Other Information:	TO AQUATIC LIFE. Obtain, read, and follow all safety instructio thoroughly with soap and water after handling Avoid release to the environment. Wear eye p IF ON SKIN: Wash with plenty of soap and wa contact lenses, if present and easy to do. Con	USES SERIOUS EYE DAMAGE. CAUSES SKIN IRRITATION. HARMFUL ns before use. Keep container tightly closed. Wash exposed skin areas g. Do not touch eyes. Do not eat, drink, or smoke when using this product. rotection/face protection. IF SWALLOWED: Get medical help. Rinse mouth. tter. IF IN EYES: Immediately rinse with water for several minutes. Remove ntinue rinsing. Get medical help. Specific treatment see this container label tion occurs: Get medical help. Take off contaminated clothing and wash it
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	government regulations must be reviewed for Company, Inc.'s, knowledge, the information of suitability or completeness is not guaranteed The information contained herein relates only	o OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other or applicability to this product. To the best of ShipMate's & H.W. Naylor contained herein is reliable and accurate as of this date; however, accuracy, and no warranties of any type, either expressed or implied, are provided. to the specific product(s). If this product(s) is combined with other materials, d. Data may be changed from time to time. Be sure to consult the latest
16.4	Prepared for:	H.W. Naylor Company, Inc. 121 Main Street Morris, New York 13808 USA Tel: +1 (607) 217-0011 Fax: +1 (866)-819-5812 http://www.drnaylor.com	Dr. Naylor
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



Page 6 of 6 **HWN-006**

Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, EU & GHS Standards

SDS Revision: 2.1

SDS Revision Date: 9/29/2023

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	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	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	HEALTH
1	Slight Hazard	FLAMMABILITY
2	Moderate Hazard	PHYSICAL HAZARDS
3	Severe Hazard	PERSONAL PROTECTION
4	Extreme Hazard	

PERSONAL PROTECTION RATINGS:

Α	8		G 🜍 🖤	8
В			н 🌍 🖤	
С			I \varTheta 🖤	8
D			J 🙆 🚺	
Е			к 🌍 🖤	
F			X Consult your super special handling dir	visor or SOPs for rections.
Sa	afety Glasses	Splash Goggles	Face Shield & Protective Eyewear	Gloves
	Boots	Protective Apron	Protective	Oust Respirator
Full	Face Respirator	Dust & Vapor Half- Mask Respirator	Full Face Air Respirator	rline Hood/Mask or SCBA

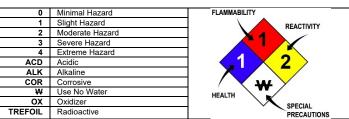
OTHER STANDARD ABBREVIATIONS:

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

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABIL	FLAMMABILITY LIMITS IN AIR:				
Autoignition	Autoignition Minimum temperature required to initiate combustion in air with no other source				
Temperature	of ignition				
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will				
	explode or ignite in the presence of an ignition source				
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will				
	explode or ignite in the presence of an ignition source				

HAZARD RATINGS:



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 _{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 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
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	European Union (European Union Directive 67/548/EEC)				
WGK	Wassergefährdungsklassen (German Water Hazard Class)				

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	۲	٨	Q	1	۲		R
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compresse d	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

CLP/GHS (1272/2008/EC) PICTOGRAMS:

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