# **SAFETY DATA SHEET**

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & EU Standards SDS Revision: 1.0 SDS Revision Date: 5/5/2024

	I 5		PRODUCT											
.1	Product Name:	PAUL MI	<b>TCHELL™</b>	PET NO	DURISI	HING	AV	VAP	UHI	SHA	<b>AMP</b>	00		
2	Chemical Name:	Aqueous Solu	Aqueous Solution, JH0074-01											
3	Synonyms:	Paul Mitchell <sup>T</sup>	™ Pet Nourishin	g Awapuhi Sl	nampoo									
4	Product Uses & Restrictions:	Pet Shampoo	ı											
5	Distributor's Name:	John Paul Mit												
6	Distributor's Address:	20705 Centre	Pointe Parkway	, Santa Clari	ta, CA 913	50 US	A							
7	Emergency Phone:	CHEMTRE	C: +1 (703)	<b>527-3887</b> <i>i</i>	<b>// +1 (80</b> 0	) 424	<b>I-930</b>	0						
8	Business Phone / Fax:	+1 (661) 298-	0400 / +1 (661)	298-0390										
			2. HA	ZARDS	IDENT	FIC	ATIC	DN						
1	Hazard Identification:	Prepared in a	ccordance with	UN Globally	Harmoniz	ed sta	ndards	s. Inte	nded t	o com	iw vla	th OSI	1A 29 C	FR 1910.120
		Canadian WH	IMIS and Austra	lian Work He	alth and Sa	afety st	tandar	ds.			, ,			
		WARNING! (	CAUSES SERIO	US EYE IRF	RITATION.									
		Classification:	Eye Irrit. 2A											
2	Label Elements	Hazard Stater	ments (H): H319	9 – Causes s	erious eye	irritatio	n.							^
			Statements (P)											
		cautiously with	n water for sever	ral minutes.	Remove co	ntact l	enses,	, if pres	sent ar	nd eas	y to do	. Cont	inue	<b>(!)</b>
			+P317 – If skin i	rritation occu	rs: Get me	dical he	elp. P	337+P	317 –	If eye i	rritatio	n pers	ists:	
_		Get medical h	<u> </u>											
3	Additional Hazards:	KEEP OUT O	F REACH OF C	HILDREN										
		3. CC	OMPOSITION	ON & IN	GREDI	ENT	INF	ORI	ΙΑΤ	ION				
									EXPO	SURE L	IMITS II	N AIR (m	g/m³)	
						AC	GIH		NOHSC	;		OSHA		
						pp	m		ppm			ppm		
EM	CAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	OTHER
	CAL NAME(S)	CAS NO.	KIECS NO.	EINECS NO.	70	ILV	SIEL	IWA	SIEL	PEAN	PEL	SIEL	IDLN	OTHER
MS	PROPRIETARY BLEND	NA	NA	NA	60-100	NA	NA	NF	NF	NF	NA	NA	NA	
וחר	JM C14-16 OLEFIN	68439-57-6	INA	270-407-8	1-5	NA	NA	NF	NF	NF	NA	l NA	NA	
	ONATE		Dam. 1; H315, H3		11-0	14/ (	14/ (	141	141	141	14/ (	14/1	14/1	
201	AUDODDODVI DETAINE	61789—40-0	NA	263-058-8	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
UCA	MIDOPROPYL BETAINE	Skin Irrit. 2; Eye	Irrit. 2A; H315, H3	19	•			•	•	•		•		
HEN	OXYETHANOL	122-99-6	KM0350000	204-589-7	≤ 1	NA	NF	NF	NF	NA	NA	NA	NA	
1111	OXILITIANOL	,	al), Eye Irrit. 2; H3		1									
ГНҮ	LHEXYLGLYCERIN	70445-33-9	NA Chronic 3; H318,	NA LIMA	0.1-1	NA	NF	NF	NF	NA	NA	NA	NA	
		TEye Dam. 1; Aq.	Chronic 3; H318,	H412										
				FIRST A										
.1	First Aid:	Ingestion:	If ingested, do r		-									
			Provide an esti		ime at whi	ch the	materi	ial was	inges	ited an	id the	amour	nt of the	substance th
		- Lucai	was swallowed.		over if are	duat as	sta in ti	h a a v a	o fluo	طائند ط	aaniai	10 0mo	unto of l	ukawarma wat
			Splashes are no for at least 15 m							n with	copioi	is amo	unts of i	ukewarm wai
			If irritation occu							th luke	warm	water	follower	hy a thoroug
			washing of the											
			physician imme		,	ap and	water		mation	i, roui	.000 0		mig poic	sioto, cornact
		Inhalation:	Remove victim		t once.									
	Effects of Exposure:		If product is swa			isea, v	omitin	g and/	or diar	rhea.				
2	1		Moderately irrita					_			clude	rednes	s, itchin	g, irritation ar
.2			watering.	J '					- •	,	-		,	<u>.</u> .
.2					neitive ind	ividuals	s, the	produc	t can	cause	allergi	c skin	reaction	s (e.g. rashe
.2			None expected	. In some se	HOILIVE HIL									
2		Skin:	None expected welts, dermatitis				,							(0.9., 1.0
2		<u>Skin</u> :	•	s) in rare inst										
?	Symptoms of Overexposure:	Skin: Inhalation: Overexposure	welts, dermatitis	s) in rare inst cause redne	ances. ess, itching		waterir			e sens	sitive i			

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		4.	FIRS	<u>ı Al</u> E	) MEA	SURES	<u> </u>					
.4	Acute Health Effects:	Moderate irritation to eyes. Ir	n some	sensitiv	e individu	als, moder	ate irritatior	ı to skin	near a	affected a	reas.	
5	Chronic Health Effects:	No harmful or chronic health	effects a	are expe	ected to o	ccur from a	a single acc	idental	ingestic	on.		
6	Target Organs:	Eyes										
7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, othe	r skin o	conditio	ns, and d	isorders o	f the HE	ALTH				1
	riggravated by Exposure.	target organs (eyes).					FL		BILIT	Y		0
							PH	YSICA	L HAZ	ZARDS		0
							PR	OTEC	ΓIVE E	QUIPM	ENT	Α
							EYI	ES				
		5. FIF	REFI	<u>GHTI</u>	NG ME	ASUR	ES					
1	Fire & Explosion Hazards:	This product is non-flammat decomposition products such										
2	Extinguishing Methods:	smoke.	-11									
3	Firefighting Procedures:	Water, Foam, CO <sub>2</sub> , Dry Chen		nnavad	aalf aanta	inad braat	hina annar	atua (pr	0001180	damand	1	
		As in any fire, wear MSHA/NIOSH approved self-contained breathing apparatus (pressure-demand) and full protective gear. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies.										
		6. ACCIDE										
1	Spills:	Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment (PPE).  For small spills (e.g., < 1 gallon (3.8 L)) or large spills (e.g., ≥ 1 gallon (3.8 L)), wear appropriate personal protective										
		equipment (e.g., goggles, glucontainer(s) for disposal. Disareas and outside of contain thoroughly before reuse.	oves). spose o	Remove f proper	e spilled r rly in acco	naterial wi rdance wit	th absorbe h local, sta	nt mate te and t	rial and federal	d place in regulation	nto approp ons. Wasl	oriate clos n all affect
		7. HANDLIN	NG &	STO	RAGE	INFOF	RMATIC	N				
1	Work & Hygiene Practices:	Do not eat, drink, or smoke w	hile har	ndling th	nis product							
2	Storage & Handling:	Use and store in a cool, dry, v and open flames.	well-ven	tilated lo	ocation (e.	g., local ex	chaust vent	ilation, f	ans). I	Keep awa	ay from ex	cessive he
3	Special Precautions:	Spilled material may present	a slippir	ng haza	rd if left ur	attended.	Clean all s	spills pro	omptly.			
			NITE	<del></del>	^ DED	00114						
		8. EXPOSURE CO			& PER		L PRO	IECI			T	
	Exposure Limits:		AC	GIH					OSHA	1		
	I ppm (mg/m <sup>2</sup> )	0.15110.1.1.1.1.5(0)				NOHSC	=0 P=41/				OTHER	
	ppm (mg/m³)	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	OTTLER	
	Ventilation & Engineering					ES-STEL						lation, fan
2	Ventilation & Engineering Controls:	When working with large queen Ensure that an eyewash station	antities on, sink	of this or was	product, phbasin is a	ES-STEL provide adavailable in	equate ven	tilation posure	(e.g., leto eyes	ocal exh	aust venti	lation, fan
!	Ventilation & Engineering	When working with large queen Ensure that an eyewash station No special respiratory protections.	antities on, sink ction is	of this or was require	product, phbasin is a	es-stel provide adavailable in provide in	equate ven case of ex umstances	tilation posure of use	(e.g., leto eyes	ocal exh s. ndling.	aust venti	lation, fan
2	Ventilation & Engineering Controls:	When working with large queensure that an eyewash station No special respiratory protein necessary, use only respirations.	antities on, sink ction is tory pro	of this or was require	product, phbasin is and under the authorize	rovide adavailable in pical circ per U.S	equate ven case of ex umstances . OSHA's	tilation posure of use requirer	(e.g., leto eyesto or har nent in	ocal exh s. ndling. I	aust venti	lation, fan
2	Ventilation & Engineering Controls:	When working with large queensure that an eyewash station No special respiratory protein necessary, use only respirating \$1910.134, or applicable U	antities on, sink ction is tory pro .S. stat	of this or was require tection e regul	product, phbasin is and under the authorize	rovide adavailable in pical circ per U.S	equate ven case of ex umstances . OSHA's	tilation posure of use requirer	(e.g., leto eyesto or har nent in	ocal exh s. ndling. I	aust venti	lation, fan
3	Ventilation & Engineering Controls:	When working with large queensure that an eyewash station No special respiratory protein necessary, use only respirately \$1910.134, or applicable Uprovinces, EU member states	antities on, sink ction is tory pro .S. stat s, or Aus	of this or was require stection re regulants	product, phbasin is and under the authorize lations, or	erovide adavailable in the appropriate app	equate ven case of ex umstances OSHA's opriate sta	tilation sposure of use requirer andards	(e.g., leto eyesto or harmon of Ca	ocal exh s. ndling. I 29 CFF inada, its	aust venti	lation, fan
3	Ventilation & Engineering Controls:  Respiratory Protection:	When working with large queensure that an eyewash static No special respiratory protein necessary, use only respirat §1910.134, or applicable Uprovinces, EU member states AVOID EYE CONTACT DUE glasses with side-shield) alw	antities on, sink ction is tory pro .S. stat s, or Aus E TO IRF	of this or was require otection te regulation.	product, phoasin is and under the authorize lations, or one of the product of the	provide ad available in ypical circ d per U.S the appr	equate ven case of exumstances . OSHA's copriate state ear protecti s (e.g., ≥	tilation posure of use requirer andards ve eyew 1 gallon	(e.g., leto eyes or har nent in of Ca	ocal exh s. ndling. I 29 CFF inada, it	aust venti	lation, fan
3	Ventilation & Engineering Controls:  Respiratory Protection:	When working with large queensure that an eyewash static No special respiratory protein necessary, use only respirate §1910.134, or applicable Uprovinces, EU member states AVOID EYE CONTACT DUE glasses with side-shield) alw product. Always use protective	antities on, sink ction is tory pro .S. stat s, or Aus E TO IRI vays where eyewere	of this or was require otection te regulation.  RITATION TO THE PROPERTY OF TH	product, phosin is a dunder to authorize lations, or DN POTEI dling larger cleaning	orovide adavailable in prical circ di per U.S the apprivate adaptive apprivate appriva	equate ven case of exumstances . OSHA's copriate state ear protecti s (e.g., ≥	tilation posure of use requirer andards ve eyew 1 gallon	(e.g., leto eyes or har nent in of Ca	ocal exh s. ndling. I 29 CFF inada, it	aust venti	lation, fan
3	Ventilation & Engineering Controls:  Respiratory Protection:  Eye Protection:	When working with large queensure that an eyewash static No special respiratory protein necessary, use only respirat §1910.134, or applicable U provinces, EU member states AVOID EYE CONTACT DUE glasses with side-shield) alw product. Always use protective hazard; soft lenses may absorbed.	antities on, sink ction is tory pro .S. stat s, or Aus E TO IRI ways wh we eyew orb and	of this or was require stection re regulatralia.  RITATION THE REPUBLIE TO THE PROPERTY OF THE	product, phosin is a dunder to authorize lations, or DN POTE! dling larger cleaning trate irritar	orovide adavailable ir ypical circ d per U.S the appropriate the appropriate of the appro	equate ven case of exumstances . OSHA's copriate state ear protecti s (e.g., ≥	tilation posure of use requirer andards ve eyew 1 gallon act lense	(e.g., I to eyes or har nent in of Ca wear (e.g., (3.8 L es pose	ocal exh s. ndling. I 29 CFF inada, it: .g., safet .)) of this	aust venti	lation, fan
3	Ventilation & Engineering Controls:  Respiratory Protection:	When working with large queensure that an eyewash static No special respiratory protein necessary, use only respirat §1910.134, or applicable Uprovinces, EU member states AVOID EYE CONTACT DUE glasses with side-shield) alw product. Always use protective hazard; soft lenses may absorbed fanticipated that prolonged 8	antities on, sink ction is tory pro. S. stat s, or Aus TO IRI vays where eyeworb and & repeat	of this or was require of tection the regulstralia.  RITATION THE PROPERTY OF	product, phosin is a dunder to authorize lations, or one of the phosin is a dunder to authorize lations, or one of the phosin in	es-stel provide adavailable in typical circ d per U.S the appr strial. We equantitie spills or lets.	equate ven a case of ex umstances . OSHA's copriate state ear protecti s (e.g., ≥ eaks. Conta	tilation posure of use requirer andards ve eyev 1 gallon act lense this pro	(e.g., I to eyes or harment in of Ca	ocal exh s. ndling. I 29 CFF inada, it: .g., safet -)) of this a specia	aust venti	lation, fan
3 4 5	Ventilation & Engineering Controls:  Respiratory Protection:  Eye Protection:	When working with large queensure that an eyewash static No special respiratory protein necessary, use only respirat §1910.134, or applicable Uprovinces, EU member states AVOID EYE CONTACT DUE glasses with side-shield) alw product. Always use protective hazard; soft lenses may absorb If anticipated that prolonged & or rubber gloves for routine in	antities on, sink ction is tory pro. S. stat s, or Aus TO IRF ways where and of the control and of the contr	of this or was require stection the regulator of the regu	product, phosin is a dunder to authorize lations, or one of the phosin is a dunder to authorize lations, or one of the phosin in the contact with the product w	es-stel provide adavailable in prical circ d per U.S the appr strial. We equantitie spills or lets.	equate ven a case of ex umstances . OSHA's copriate state ear protecti s (e.g., ≥ eaks. Conta	tilation posure of use requirer andards ve eyev 1 gallon act lense this pro	(e.g., I to eyes or harment in of Ca	ocal exh s. ndling. I 29 CFF inada, it: .g., safet -)) of this a specia	aust venti	lation, fan
3	Ventilation & Engineering Controls:  Respiratory Protection:  Eye Protection:	When working with large queensure that an eyewash static No special respiratory protein necessary, use only respirat §1910.134, or applicable Uprovinces, EU member states AVOID EYE CONTACT DUE glasses with side-shield) alw product. Always use protective hazard; soft lenses may absorbed fanticipated that prolonged 8	antities on, sink ction is tory pro. S. stat s, or Aus TO IRF vays where and of the control and described and described and a, of	of this or was require stection the regulator of the regu	product, phbasin is a dunder the authorize lations, or one of the control of the	es-stel provide adavailable in typical circ d per U.S the approvide quantitie e quantitie e spills or lets.	equate ven case of exumstances. OSHA's copriate state ar protecting (e.g., and containing use of J.S. OSHA	tilation cposure of use requirer andards ve eyew 1 gallon act lense this pro 29 CFR	(e.g., leto eyes or har nent in of Ca	ocal exh s. ndling.   29 CFF anada, it: g., safet -)) of this a special /ear lates	aust venti	lation, fan

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		O DUVEICAL & CUEMICAL DEODEDTICE
0.1		9. PHYSICAL & CHEMICAL PROPERTIES
9.1	Appearance:	Clear to pale yellow liquid
9.2	Odor: Odor Threshold:	Mild Odor
9.4	pH:	NA SOCIO
9.5	Melting Point/Freezing Point:	5.0-6.0 NA
9.6	Initial Boiling Point/Boiling	
	Range:	NA
9.7	Flashpoint:	NA NA
9.8	Upper/Lower Flammability Limits:	NA NA
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	NA NA
9.11	Specific Gravity	1.00 ± 0.02
9.12	Solubility:	Soluble
9.13	Partition Coefficient (log Pow):	NA NA
9.14	Autoignition Temperature:	NA NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	4000-8000 cPs, est.
9.17	Other Information:	NA NA
		10. STABILITY & REACTIVITY
10.1	Stability:	This product is stable.
10.2	Hazardous Decomposition Products:	Oxides of carbon (CO, CO <sub>2</sub> ) and sulfur (SO <sub>2</sub> ).
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Extreme temperatures.
10.5	Incompatible Substances:	None known.
		11. TOXICOLOGICAL INFORMATION
11.1	Routes of Entry:	Inhalation: NO Absorption: YES Ingestion: YES
11.2	Toxicity Data:	This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product, but is not presented in this document.
11.3	Acute Toxicity:	See Section 4.4
11.4	Chronic Toxicity:	See Section 4.5
11.5	Suspected Carcinogen:	This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm.
11.6	Reproductive Toxicity:	This product is not reported to produce reproductive toxicity in humans.
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.
	Teratogenicity:	This product is not reported to cause teratogenic effects in humans.
11 7	Reproductive Toxicity:  Irritancy of Product:	This product is not reported to cause reproductive effects in humans.
11.7	Biological Exposure Indices:	See Section 4.3.
11.9	Physician Recommendations:	NE Treat symptomatically
11.5	, oroigin i toooniinichaalions.	Treat symptomatically.
		12. ECOLOGICAL INFORMATION
12.1	Environmental Stability:	There is no specific data available for this product.
12.2	Effects on Plants & Animals:	There is no specific data available for this product.
12.3	Effects on Aquatic Life:	There is no specific data available for this product.
		40 BIODOCAL CONCIDED : 2:0:10
		13. DISPOSAL CONSIDERATIONS
13.1	Waste Disposal:	Dispose of in accordance with federal, state, and local regulations.
13.2	Special Considerations:	NA NA

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		14. TRANSPORTATIO	N INFORMATION						
		nber, proper shipping name, hazard class & division e required by 49 CFR, IATA/ICAO, IMDG and the C	n, packing group) is shown for each mode of transportation. Additiona						
14.1	49 CFR (GND):	NOT REGULATED							
14.2	IATA (AIR):	NOT REGULATED							
14.3	IMDG (OCN):	NOT REGULATED							
14.4	TDGR (Canadian GND):	NOT REGULATED							
14.5	ADR/RID (EU):	NOT REGULATED							
14.6	SCT (MEXICO):	NOT REGULATED							
14.7	ADGR (AUS):	NOT REGULATED							
		15. REGULATORY I	NEORMATION						
15.1	SARA Reporting Requirements:		oject to SARA Title III, Section 313 reporting requirements.						
15.2	SARA Threshold Planning Quantity:	There are no specific Threshold Planning Quantiti	es for the components of this product.						
15.3	TSCA Inventory Status:	The components of this product are listed on the	SCA Inventory.						
15.4	CERCLA Reportable Quantity (RQ):	NA							
15.5	Other Federal Requirements:	This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics). 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.							
15.6	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.							
15.7	State Regulatory Information:  Phenoxyethanol is listed on the following state criteria list(s): MA, NJ, and PA.  No other 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 (MI), 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.								
15.8	Other Requirements:	NA							
		16. OTHER INFO	PRMATION						
16.1	Other Information:	WARNING! CAUSES SERIOUS EYE IRRITATION.  For external use only. Use only as directed. Discontinue use immediately if irritation develops. Wear eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical help. If eye irritation persists: Get medical help.  KEEP OUT OF REACH OF CHILDREN.							
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.							
16.3	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 & John Paul Mitchel Systems', 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:	John Paul Mitchell Systems 20705 Centre Pointe Parkway, Santa Clarita, CA 91350 USA Tel: +1 (661) 298-0400 Fax: +1 (661) 298-0390	JOHN PAUL MITCHELL SYSTEMS						
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com	ShipMate*  Dangerous Goods Training & Consulting						

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### **DEFINITION OF TERMS**

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

#### **GENERAL INFORMATION:**

CAS No.	Chemical Abstract Service Number					
RTECS No.	Registry of Toxic Effects of Chemical Substances Number					
EINECS No.	European Inventory of Existing Commercial Chemical Substances Number					

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

ACGIH	American Conference on Governmental Industrial Hygienists
IDLH	Immediately Dangerous to Life and Health
NOHSC	National Occupational Health and Safety Commission (Australia)
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average

#### FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

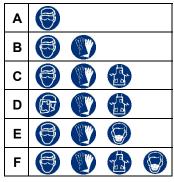
#### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

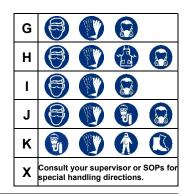
#### **HEALTH, FLAMMABILITY & REACTIVITY RATINGS:**

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



#### PERSONAL PROTECTION RATINGS:







### 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

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	/ <b>~ ~ ~ ~</b> ~ ~
W	Use No Water	HEALTH
ОХ	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

#### TOXICOLOGICAL INFORMATION:

LD <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
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>Io</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	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TCo, LCio, & LCo	
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)					

## CLP/GHS (2020/878/EU) PICTOGRAMS:

			$\Diamond$	A Ly				<b>(</b> *)
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment