SAFETY DATA SHEET

Page 1 of 6 **PM-052**

	ared to OSHA, ACC, ANSI, N												
		<u> </u>	PRODUC	CON & CON	IPANY	IDEN	TIFICA		N				
1.1	Product Name:	-		– THE CO DWN; 4G								-	
1.2	Chemical Name:	NA											
1.3	Synonyms:			ent Cream Hair									
1.4	Trade Names:	Paul Mitchell	– The Color Pe	ermanent Crea	m Hair Co	lor: 3G D	ark Gold E	Brown;	4G Gol	d Bro	wn; 50	3 Light	Gold Brown
1.5	Product Uses & Restrictions:	Professional I											
1.6	Distributor's Name:	JPMS Manufa											
1.7 1.8	Distributor's Address: Emergency Phone:			ading, PA 1960									
) 527-3887	+1 (800) 424-9	300 (CC	:N 11	977)				
1.9	Business Phone / Fax:	+1 (610) 374-	4845 / +1(610) 373-7101									
			2. H	AZARDS	IDENT	FICA	TION						
		Hazard State irritation. Precautionary gloves and e present and e advice/attention	<u>/ Statements</u> (eye/face protection easy to do. 0	Eye Irrit. 2A 17 – May caus P): P271 – Us ction. P305+I Continue rinsin all a POISON	e only in v P351+P338 g. P337+	well-venti 3 – IF IN P313 – I	ilated area N EYES: If eye irrita	a. P28 Remov ation p	0 – We re conta ersists:	ear pr act le Get	rotectiv enses, medic	/e if al	$\langle \rangle$
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IPMS AMMC D-PHE I-CHL I-AMI D-AMI	PROPRIETARY BLEND DNIUM HYDROXIDE INYLENEDIAMINE ORORESORCINOL NO-2-HYDROXYTOLUENE	contents/cont NOTICE: This hairdresser o AN ALLERG and temporar seek immedia eyebrows - to 3. CC CAS No. NA 1336-21-6 Skin Corr. 1B 106-50-3 Acute Tox. 3 95-88-5 Acute Tox. 4; 2835-95-2	ainer to a licer s product is de nly, and carrie IC REACTION y henna, may ate medical at do so may ca DMPOSIT DMPOSIT RTECS No. NA BQ9625000 ; H314 SS8050000 ; H314 SS8050000 ; H314 SS8050000	ISEC TOXACT TOXACT	ntion. P4 storage of tended for expressed patch testi isk of allerg product m GREDI % 60-100 % 60-100 ×/ % 60-100 ×/ NA Eye Irrit. 2; § NA SE 3; H302, NA	05 – Str r disposa use by a d or impli ng is rec gy. If a s ust not b ENT II ACGIH ppm TLV S NA 1 Skin Sens. NA 1 Skin Sens. NA 1 NA 1 NA 1	TEL TWA NF 35 25 NA NF 1; H331,H3 NA NF 32, H331, H3 NA NF 32, H331, H3 NA NF	I up. SDF). cosme d by of d. Tat ergic re or dyein WAT <u>ES-</u> <u>STEL</u> NF <u>50</u> 0.1 311, H3 319, H3	P501 - etologist thers. 0 toos, in action s ng the SURE LIN SURE LIN ES- PEAK NF NF NF NF 01, H319 NA 35 NF	- Dis t/profe CAN cludir should eyela witts in NH PEL NA 25 NA 0, H31 NF NA	pose of ession: CAUS ng blac d occu ishes of OSHA ppm STEL NA NA 7 NA	of al E kk ir, or IDLH NA 25 NF	
19MS AMMC D-PHE I-CHL I-AMI D-AMI 2-ME1 3-NITE	PROPRIETARY BLEND DNIUM HYDROXIDE INYLENEDIAMINE ORORESORCINOL NO-2-HYDROXYTOLUENE NOPHENOL	contents/cont NOTICE: This hairdresser o AN ALLERG and temporar seek immedia eyebrows - to 3. CC CAS No. NA 1336-21-6 Skin Corr. 1B 106-50-3 Acute Tox. 3 95-88-5 Acute Tox. 4; 2835-95-2 123-30-8	ainer to a licer s product is de nly, and carrie IC REACTION y henna, may ate medical at do so may ca DMPOSIT NA RTECS No. NA BQ9625000 ; H314 S8050000 \$kin Irrit. 2; Eye SJ6090000 NA	ISENTITIES IN CONTRACTOR IN CONTRACTOR INFORMATION IN CONTRACTOR INTERVIENCE INTERVI	ntion. P4 storage of tended for expressed patch testi isk of allerg product m GREDI 60-100 < 10.0 NA Eye Irrit. 2; S NA SE 3; H302, NA	05 – Str r disposa use by a d or impli ng is rec gy. If a s ust not b ENT II ACGII ppm TLV S NA 1 Skin Sens. NA 1 H312, H33 NA 1 NA 1	NFORI Severe alle severe alle be used for NFORI Severe alle Severe alle Seve	UP. SDF). cosme d by of d. Tat ergic re or dyein VAT EXPO NOHSC ppm ES- STEL NF 50 0.1 311, H30 NF 319, H3 NF	P501 - etologist thers. 0 toos, in action s ng the ION SURE LIN ES- PEAK NF 01, H319 01, H319 NF 101, H319 NF 135 NF	- Dis t/profe CAN cludir shoul eyela <u>wits in</u> <u>PEL</u> <u>NA</u> <u>25</u> <u>NA</u> <u>0, H31</u> <u>NF</u> <u>NA</u> <u>NA</u>	Pose of ession: CAUS ng blac d occu ishes of NA Ppm STEL NA NA 7 NA NA	of al E kk ir, or g/m ³) iDLH NA 25 NF NA	
JPMS AMMC D-PHE 4-CHL 4-AMI 2-ME1 2-ME1	PROPRIETARY BLEND DNIUM HYDROXIDE INYLENEDIAMINE ORORESORCINOL NO-2-HYDROXYTOLUENE NOPHENOL THYLRESORCINOL RO-P-HYDROXYETHYL	contents/cont NOTICE: This hairdresser o AN ALLERG and temporar seek immedia eyebrows - to 3. CC CAS No. NA 1336-21-6 Skin Corr. 1B 106-50-3 Acute Tox. 3 95-88-5 Acute Tox. 4; 2835-95-2 123-30-8 608-25-3	ainer to a licer s product is de nly, and carrie IC REACTION y henna, may ate medical at do so may ca DMPOSIT NA BQ9625000 ; H314 S88050000 *; Acute Tox. 3 * VH0450000 Skin Irrit. 2; Eye SJ6090000	ISENTITIES IN CONTRACTOR IN CONTRACTOR INFORMATION IN CONTRACTOR INCLUSION IN CONTRACTOR IN CONTRACTOR IN CONTRACTOR INTERVIDUAL INTERVIDARI	ntion. P4 storage of tended for expressed patch testi isk of aller product m GREDI 60-100 < 10.0 NA Eye Irrit. 2; S NA SE 3; H302, NA NA	05 – Str r disposa use by a d or impli ng is rec gy. If a s ust not b ENT II ACGII ppm TLV S NA 1 Skin Sens. NA 1 H312, H33 NA 1 NA 1 NA 1	TEL TWA NF 1; H331,H3 NA NF 1; H331,H3 NA NF 1; H331,H3 NA NF 1; H331,H3 NA NF 1; H331,H3 NA NF 1; H331,H3 NA NF	UP. SDF). cosme d by of d. Tat ergic re or dyein VAT <u>ExPO</u> NOHSC <u>ppm</u> <u>ES-</u> STEL NF <u>50</u> 0.1 311, H31 NF <u>319, H3</u> NF	P501 - etologist thers. 0 toos, in action s ng the NF NF NF NF NF NF NF NF NF NF	- Dis t/profe CAN cludir shoul eyela <u>witts in</u> <u>PEL</u> NA <u>25</u> NA <u>25</u> NA <u>25</u> NA <u>25</u> NA <u>25</u> NA NA NA	pose of ession: CAUS ng blac d occu ishes of NA NA NA NA NA NA	of al E kk rr, or g/m ³) IDLH NA 25 NF NA NA	

SAFETY DATA SHEET

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						F IWI-052
Prepa	ared to OSHA, ACC, ANSI, N	OHSC, WHMIS	, 2001/58 & 1272/2008/EC Standards	SDS Revision: 1.3	SDS Revision Date:	7/1/2016
			4. FIRST AID MEAS			
.1	First Aid:	Ingestion:	DO NOT INDUCE VOMITING. Contac		7-3887 or the neares	t Poison Contro
		<u>mgoodon</u> .	Center or local emergency telephone n attention. If vomiting occurs spontaneo aspiration.	umber for assistance and i busly, keep victim's head lo	nstructions. Seek im owered (forward) to re	mediate medica educe the risk o
		<u>Eyes</u> :	If product gets in the eyes, flush eyes t holding eyelid(s) open to ensure comp following use, consult a physician or eme	olete flushing. If the eyes		
		<u>Skin</u> :	Remove contaminated clothing and wa and/or the skin reaction worsens, conta and/or medical attention is sought, do no	ash affected areas with so act a physician immediatel ot use hair color products ag	y. In cases where dis gain until the specific r	scomfort persist nature of the ski
		Inhalation:	reaction and the causative agent has be provided. Do not wear contaminated clo Remove victim to fresh air at once. Und	thing until after it has been er extreme conditions, if bre	properly cleaned.	
.2	Effects of Exposure:	Ingestion:	respiration. Seek immediate medical att If product is swallowed may cause nause	ea, vomiting and/or diarrhea		
		Eyes:	Moderately irritating to the eyes. Syn irritation and watering.	nptoms of overexposure m	ay include redness,	itching, stinging
		<u>Skin</u> :	May be irritating to skin. The product car sensitization in some sensitive individual		ions (e.g., rashes, we	lts, dermatitis) c
		Inhalation:	May cause mild, transient respiratory irri		tact with concentrated	l vapors or mists
.3	Symptoms of Overexposure:	Ingestion:	Nausea, intestinal discomfort, vomiting a			
		<u>Eyes</u> : Skin:	Overexposure in eyes may cause rednes Symptoms of skin overexposure may inc		ritation of affected are	as The produ
		<u>OKIII</u> .	can cause allergic skin reactions (e.g., ra			
.4	Acute Health Effects:		itation to eyes. Symptoms of overexposititation to skin near affected areas.			
.5	Chronic Health Effects:	No chronic h	nealth effects are expected to occur from a	single accidental ingestion.		
.6	Target Organs:	Eyes, skin.				
.7	Medical Conditions Aggravated by Exposure:	0	dermatitis, other skin conditions, and di s (eyes and skin).	isorders of the HEALTH FLAMM		1
					AL HAZARDS	0
					TIVE EQUIPMENT	
				EYES	SKIN	
			5. FIREFIGHTING ME	ASURES		
5.1	Fire & Explosion Hazards:		t is not flammable. However, if involved ir s to form toxic gases (e.g., CO , CO_2 , and l		ecompose at high	
5.2	Extinguishing Methods:		n, CO ₂ , Dry Chemical			
5.3	Firefighting Procedures:	Thermal de derivatives. breathing ap Keep contai and to prote	as for surrounding materials. Hazardous gradation may produce oxides of cart Firefighters should wear a MSHA/NIO oparatus (SCBA) and protective clothing. ners cool until well after the fire is out. U ct personal. Fight fire upwind. Prevent ru ns, drinking water supply, or any natural w	oon and/or nitrogen, hydr SH approved or equivale Fire should be fought from se water spray to cool fire- noff from fire control or dilu	ocarbons and/or nt self-contained a safe distance. exposed surfaces	
			6. ACCIDENTAL RELEAS	E MEASURES		
6.1	Spills:	Before clea Equipment.	nning any spill or leak, individuals involv		wear appropriate Per	sonal Protectiv
		For <u>small</u> s Maximize v absorbent r local, state soap. Rem	spills (e.g., < 1 gallon (3.8 L)) wear apprentilation (open doors and windows) an inaterial and place into appropriate closed and federal regulations. Wash all affected ove any contaminated clothing and wash the second	d secure all sources of ig container(s) for disposal. I ad areas and outside of co noroughly before reuse.	nition. Remove spill Dispose of properly in ntainer with plenty of	ed material wit accordance wit warm water an
		material (e.	<u>pills</u> (e.g., ≥ 1 gallon (3.8 L)), deny entry g., sand or earth). Transfer liquid to conta for proper disposal. Remove contaminate p spills and cleaning runoffs out of municip	iners for recovery or dispos	al and solid diking ma	iterial to separa

10.5

Incompatible Substances:

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		7. HANDLIN	IG &	STO	RAGE	INFOF	RMATIC	ON			
7.1	Work & Hygiene Practices:	Do not eat, drink or smoke w and clothing. Do not expose unintentional residues with so	to heat	t and fla	ime. Use o						
7.2	Storage & Handling:	Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct sunlight. Avoid temperatures above 120°F. Keep away from incompatible substances. Protect containers from physical damage. To avoid unintentional spraying keep cap in place when not in use. Keep away from children at all times!									
7.3	Special Precautions:	Spilled material may present a	a slippi	ng haza	rd. Clean	up all spill	s promptly.				
	ſ	8. EXPOSURE CO			& PER		L PRO	TECT			I
8.1	Exposure Limits: ppm (mg/m ³)			GIH		NOHSC			OSHA		OTHER
	pp (CHEMICAL NAME(S) AMMONIUM HYDROXIDE	TLV 25	STEL 35	ES-TWA 25	ES-STEL 50	ES-PEAK	25	STEL NA	IDLH NA	25 NIOSH
		p-PHENYLENEDIAMINE	NA	NA	NF	0.1	NF	NA	NA	25	23 110011
		TRIETHANOLAMINE	(5)	NA	NF	NF	NF	NA	NA	NA	
8.2	Ventilation & Engineering Controls:	General mechanical (e.g., fa exhaust ventilation to effectiv product. Ensure appropriate of	vely re	move a aminatic	nd preven	t buildup ent is avail	of vapors able (e.g.,	or mist sink, sa	genera fety sho	ted fron wer, eye	n the handling of this e-wash station).
8.3	Respiratory Protection:	No special respiratory protect instances where vapors or s needed, use only protection a the Canadian CAS Standard member States, or Australia.	sprays uthoriz	of this ed by 2	product a 9 CFR §19	ire genera 910.134, aj	ited, and r pplicable U	espirato I.S. Stat	ory prote te regula	ection in ations, o	s or
8.4	Eye Protection:	Avoid eye contact. None required (e.g., \geq 1 gallon (3.8 L)) safety						nandling	large q	uantitie	s 😝
8.5	Hand Protection:	minimum. Use latex or PVC	Required under normal conditions of use to prevent staining and keep exposure level to a minimum. Use latex or PVC gloves. When handling large quantities (e.g., ≥ 1 gallon (3.8 L)), wear rubber or impervious plastic gloves must be worn.								
8.6	Body Protection:	No apron required when han skin and clothing. When han showers should be available. product, wash any exposed a	dling la Upon	arge qua	antities (e.e	g., ≥ 1 gall ork activitie	on), eye wa s involving	ash stat	ions and	d deluge	e Ja
		9. PHYSIC	NI &	СНЕ	MICAL			9			
9.1	Appearance:	Orange colored cream						.0			
9.2	Odor:	Ammonia odor									
9.3	Odor Threshold:	NA									
9.4	pH:	NA									
9.5	Melting Point/Freezing Point:	60-65 °C (140-149 °F)									
9.6	Initial Boiling Point/Boiling Range:	NA									
9.7	Flashpoint:	NA									
9.8	Upper/Lower Flammability Limits:	NA									
9.9	Vapor Pressure:	NA									
9.10	Vapor Density:	1.12 g/mL									
9.11	Relative Density:	NA									
9.12	Solubility:	Dispersible									
9.13	Partition Coefficient (log Pow):	NA									
9.14	Autoignition Temperature:	NA									
9.15	Decomposition Temperature:	NA									
9.16	Viscosity:	NA									
9.17	Other Information:	NA									
		10. S	TAB	ILITY	& RE/	ACTIVI	TY				
10.1	Stability:	Stable under normal condition	ıs; unst	able wit	h heat or o	contaminat	tion.				
10.2	Hazardous Decomposition Products:	Oxides of carbon (CO, CO ₂),	nitroge	n (NO _x)	and sulfu	r (SO ₂).					
10.3	Hazardous Polymerization:	Will not occur.	-4 :		t t						
10.4	Conditions to Avoid:	Open flames, sparks, high her						IT.			

Avoid extreme heat and ignition sources. Store away from oxidizers.

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11. TOXICOLOGICAL INFORMATION Inhalation: NO Absorption: YES 11.1 Routes of Entry Ingestion: YES 112 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: Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea. 11.4 Chronic Toxicity: This material may aggravate any pre-existing skin condition (e.g., dermatitis). 11.5 Suspected Carcinogen: This product contains p-Phenylenediamine, which is not carcinogenic to humans, but is listed as Group 3 carcinogens by the IARC. This product contains p-Phenylenediamine listed by ACGIH in group A4. 116 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. Reproductive Toxicity: This product is not reported to cause reproductive effects in humans. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 11.7 Irritancy of Product: 11.8 Biological Exposure Indices: NE Physician Recommendations: 11.9 Treat symptomatically. 12. ECOLOGICAL INFORMATION Environmental Stability: 12.1 There is no specific data available for this product. 12.2 Effects on Plants & Animals There are no specific data available for this product. Effects on Aquatic Life: 12.3 There are no specific data available for this product. 13. DISPOSAL CONSIDERATIONS Products covered by this MSDS, in their original form, when disposed as waste, are considered non hazardous waste 13.1 Waste Disposal: according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and federal regulations. Dispose of in accordance with federal, state and local regulations. California Waste Code: 331 13.2 Special Considerations 14. TRANSPORTATION INFORMATION The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR 14.1 49 CFR (GND): NOT REGULATED 14.2 IATA (AIR): NOT REGULATED IMDG (OCN): 14.3 NOT REGULATED TDGR (Canadian GND): NOT REGULATED 14.4 14.5 ADR/RID (EU): NOT REGULATED SCT (MEXICO): 14.6 NOT REGULATED ADGR (AUS): 14.7 NOT REGULATED 15. REGULATORY INFORMATION SARA Reporting 15.1 This product contains p-Phenylenediamine and Ammonium Hydroxide (as ammonia) substances subject to SARA Title Requirements: III, section 313 reporting requirements. SARA Threshold Planning 15.2 This product is not subject to the reporting requirements of SARA Title III, Section 302. Quantity: 15.3 TSCA Inventory Status: All components of this product are listed in the TSCA Inventory or are exempt. CERCLA Reportable Quantity 15.4 Ammonium Hydroxide (Ammonia): 454 kg (1,000 lbs); p-Phenylenediamine: 2,270 kg (5,000 lbs). (RQ): 15.5 Other Federal Requirements: This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR Subchapter G, (Cosmetics) 15.6 Other Canadian Regulations: This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS D2B (Other Toxic Effects).

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.3 SDS Revision Date: 7/1/2016 15. REGULATORY INFORMATION – cont'd Ammonium Hydroxide (as ammonia) can be found on the following state criteria lists: Illinois Hazardous Substances List 15.7 State Regulatory Information: (IL); Massachusetts Hazardous Substances List (MA); New Jersey Right-to-Know List (NJ); Pennsylvania Right-to-Know List (PA); Rhode Island Hazardous Substances List (RI). p-Phenylenediamine is found on the following state criteria list: FL, MA, MN, NJ, PA and WA Triethanolamine is found on the following state criteria lists: FL, MA, MN, 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 (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). 15.8 Other Requirements: NA 16. OTHER INFORMATION WARNING! CAUSES MILD SKIN IRRITATION. CAUSES EYE IRRITATION. For external use only. Use only as 16 1 Other Information: directed. Discontinue use immediately if irritation develops Keep away from children. Keep container tightly closed in a cool place. When using do not eat or drink. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. If case of accident or if you feel unwell seek medical advice immediately (show the label where possible). KEEP LOCKED UP AND OUT OF REACH OF CHILDREN. This product is designed and intended for use by a licensed cosmetologist/professional hairdresser only, and carries no warranty expressed or implied if used by others. CAN CAUSE AN ALLERGIC REACTION. Preliminary patch testing is recommended. Tattoos, including black and temporary henna, may increase the risk of allergy, If a severe allergic reaction should occur, immediately seek medical attention. This product must not be used for dyeing the evelashes or eyebrows; to do so may cause blindness. 16.2 Terms & Definitions: See last page of this Safety Data Sheet. 16.3 Disclaimer: This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & JPMS Manufacturing, LLC's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition. 16.4 Prepared for: JPMS Manufacturing, LLC 237 Buttonwood Street Reading, PA 19601 USA Tel: +1 (610) 374-4845 Fax: +1 (610) 373-7101 16.5 Prepared by: ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Shiply Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 Dangerous Goods Training & Consulting http://www.shipmate.com

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SDS Revision Date: 7/1/2016

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

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists								
C	Ceiling Limit								
ES Exposure Standard (Australia)									
IDLH	Immediately Dangerous to Life and Health								
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.

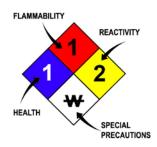
HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

PERSONAL PROTECTION RATINGS:

1 2100					_						
Α						G		F			
В						Н		E			
С			Ę,I			I		F			
D	B					J	0	F			
Е						κ	F	F			
F			Ę,I			Χ			uperviso Ig directio		
Sa	Safety Glasses Splash Goggles			Ρ		Shield &		GI	oves	5	
	Boots		Syntheti	c Apron	Ρ		tive Cloth	ning	Dust R	e spi	rator
Full F	Full Face Respirator						ull Face spirator		Airline H or S		
ОТН	ER STAN	DARD	ABBRE\	IATIONS	:						
	ML	Maxin	num Limit								
	mg/m3	milligr	ams per cu	bic meter							
	NA	Not A	vailable								
	ND	Not D	etermined								
	NE	Not E	stablished								
		Not E									

HAZARD RATINGS: 0 Minimal Hazard 1 Slight Hazard 2 Moderate Hazard 3 Severe Hazard 4 Extreme Hazard ACD Acidic ALK Alkaline



TOXICOLOGICAL INFORMATION:

COR Corrosive W Use No Water

OX Oxidizer TREFOIL Radioactive

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 _{lo} , LD _{lo} , & 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 K _{ow} or log K _{oc}	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System									
DOT	U.S. Department of Transportation									
тс	Transport Canada									
EPA	U.S. Environmental Protection Agency									
DSL	Canadian Domestic Substance List									
NOHSC	National Occupational Health and Safety Commission (Australia)									
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)									
HMIS-III	National Paint & Coatings Association Hazardous Materials Identification System									

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

\bigcirc	۲	٨	\bigcirc	1	۲		Ŕ
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

EC (67/548/EEC) INFORMATION:

		N	¥	8	&	×	×
С	E	F	Ν	0	т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

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

ppm parts per million SCBA Self-Contained Breathing Apparatus NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

NF Not Found NR No Results

FLAMMABILITY LIMITS IN AIR:	
Autoignition	Minimum temperature required to initiate combustion in air with no other
Temperature	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