Page 1 of 6 SAFETY DATA SHEET PAUL MITCHELL **PM-012** SDS Revision: 1.3 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 7/1/2016 1. PRODUCT & COMPANY IDENTIFICATION 11 Product Name: PAUL MITCHELL – THE COLOR PERMANENT CREAM HAIR COLOR GRAY **COVERAGE 4N+ NATURAL BROWN** 1.2 Chemical Name: NA 1.3 Synonyms JPMS - The Color Permanent Cream Hair Color Gray Coverage 4N+ Natural Brown 1.4 Trade Names: Paul Mitchell – The Color Permanent Cream Hair Color Gray Coverage 4N+ Natural Brown 1.5 Product Uses & Restrictions: Professional Use Only JPMS Manufacturing, LLC 1.6 Distributor's Name: 237 Buttonwood Street, Reading, PA 19601 USA 1.7 Distributor's Address: 18 Emergency Phone: CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 11977) Business Phone / Fax: 19 +1 (610) 374-4845 / +1(610) 373-7101 2. HAZARDS IDENTIFICATION This product is classified as a HAZARDOUS SUBSTANCE but NOT as DANGEROUS GOODS 21 Hazard Identification: according to the classification criteria of NOHSC: 1088 (2004) and ADG Code (Australia). WARNING! MAY CAUSES AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE **IRRITATION. HARMFUL IF INHALED.** Classification: Skin Sens.1; Eye Irrit. 2A; Acute Tox, Inh. 4 Hazard Statements (H): H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H332 - Harmful if inhaled. Precautionary Statements (P): P271 - Use only in well-ventilated area. P280 - Wear protective gloves and eye/face protection. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention. P312 - Call a POISON CENTER/doctor if you feel unwell. P332+P313 - If skin irritation occurs: get medical advice/attention. P405 - Store locked up. P501 - Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF). NOTICE: 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, seek immediate medical attention. This product must not be used for dyeing the eyelashes or eyebrows - to do so may cause blindness. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC OSHA mag ppm ppm ES-ES-ES-STEL STEL TLV PEL IDLH OTHER CHEMICAL NAME(S) CAS No. RTECS No. EINECS No. % TWA STEL PEAK 1336-21-6 BQ9625000 215-647-6 < 10.0 25 35 25 50 NF 25 NA NA 25 NIOSH AMMONIUM HYDROXIDE Skin Corr. 1B; H314 SS8050000 203-404-7 NA NA NA NF (0.1) NF (0.1) NA 25 106-50-3 P-PHENYLENEDIAMINE Acute Tox. 3 *; Eye Irrit. 2; Skin Sens. 1; H331, H311, H301 H319, H317 108-46-3 VG9625000 203-585-2 NA NA NA NF NF NF NA NA NA RESORCINOL 608-25-3 VH2009500 210-155-8 NA NA NA NF NF NF NA NA NA 2-METHYLRESORCINOL 90-15-3 NA 201-969-4 NA NA NA NF NF NF NA NA NA 1-NAPHTHOL Acute Tox. 4 *; STOT SE 3; Skin Irrit. 2; Eye Dam. 1; H312, H302, H335, H315, H318 266-357-1 66422-95-5 NA NA NA NF NA NA 2,4-DIAMINOPHENOXYETHANOL NA NF NF NA HCI KJ5775000 205-483-3 NA 30 141-43-5 3 6 3 NF NF 3 6 **ETHANOLAMINE** Acute Tox. 4 * Skin Corr. 1B; H332, H312, H302, H314 NA NA NA NA NA NA NF NF NF NA NA NA JPMS PROPRIETARY BI END

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			4. FIRST AID MEA	SURES			
4.1	First Aid:	Ingestion:	If ingested, do not induce vomiting. IMMEDIATELY. If the patient is vomiti unconscious person. Contact the near estimate of the time at which the ma swallowed.	If product has beeing, continue to offer test Poison Control Ce	vater or milk. Nev inter or local emer	ver give water gency numbe	or milk to a r. Provide a
		<u>Eyes</u> :	Splashes are not likely; however, if pro to do, flush with copious amounts of I	ukewarm water for at			
		<u>Skin</u> :	irritation persists: Get medical advice/at If irritation occurs and product is on the washing of the affected area with soa physician immediately.	skin, rinse thoroughly			
4.2	Effects of Exposure:	Inhalation:	Remove victim to fresh air at once.		1		
+.2	Effects of Exposure.	Ingestion:	If product is swallowed, may cause nau	-		, ,. ,	
		<u>Eyes</u> : <u>Skin</u> :	Irritating to the eyes. Symptoms of ove May be irritating to skin. The product some sensitive individuals.				•
		Inhalation:	None expected.				
4.3	Symptoms of Overexposure:	Ingestion:	Nausea, intestinal discomfort, vomiting				
		Eyes:	Overexposure in eyes may cause redne	, 0	0		
		<u>Skin</u> :	Symptoms of skin overexposure may in can cause allergic skin reactions (e.g., i	ashes, welts, dermati	tis) in some sensit	ve individuals	
4.4	Acute Health Effects:	itching, and	ure in eyes may cause redness, itching ar irritation of affected areas. The product tive individuals.				
1.5	Chronic Health Effects:	Moderate in	ritation to eyes. Symptoms of overexposi ritation to skin near affected areas.	ure may include redr	ness, itching, sting	ing, irritation	and waterin
4.6	Target Organs:	Eyes, Skin.					
4.7	Medical Conditions	Pre-existing	dermatitis, other skin conditions, and o	lisorders of the HE	ALTH		1
	Aggravated by Exposure:		ns (eyes, skin, and respiratory system).	FL	AMMABILITY	PO	0
					YSICAL HAZAF		1
					OTECTIVE EQU	IPMENI	В
				EY	ES SKIN		
			5. FIREFIGHTING MI	EASURES			
5.1	Fire & Explosion Hazards:		t is not flammable. However, if involved to form toxic gases (e.g., CO, CO ₂ , and	n a fire, this product	may decompose a	t high	
5.2	Extinguishing Methods:		m, CO ₂ , Dry Chemical				
5.3	Firefighting Procedures:	Thermal de derivatives. breathing a Keep conta and to prote	as for surrounding materials. Hazardou egradation may produce oxides of car Firefighters should wear a MSHA/NIC pparatus (SCBA) and protective clothing. iners cool until well after the fire is out. U ect personal. Fight fire upwind. Prevent r ins, drinking water supply, or any natural w	bon and/or nitroger DSH approved or ea Fire should be foug Ise water spray to co unoff from fire control	, hydrocarbons a quivalent self-con nt from a safe dis ol fire-exposed su	and/or ained ance. faces	
			6. ACCIDENTAL RELEAS		8		
6.1	Spills:	Before clea Equipment	aning any spill or leak, individuals invol			priate Persor	nal Protectiv
		For <u>small</u> Maximize absorbent local, state soap. Rem For <u>large s</u>	<u>spills</u> (e.g., < 1 gallon (3.8 L)) wear ap ventilation (open doors and windows) an material and place into appropriate closed and federal regulations. Wash all affect tove any contaminated clothing and wash spills (e.g., \geq 1 gallon (3.8 L)), deny enti g., sand or earth). Transfer liquid to cont	nd secure all source container(s) for disp ed areas and outside thoroughly before reu y to all unprotected	s of ignition. Re osal. Dispose of p of container with se. individuals. Dike	move spilled properly in acc plenty of wa and contain	material w cordance w rm water an spill with in al to separa

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7.1	Mark Othering D. "	7. HANDLIN			-	_				• • •	
	Work & Hygiene Practices:	and clothing. Do not expose	Do not eat, drink or smoke when handling this product. Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Do not expose to heat and flame. Use only in ventilated areas. Keep out of the reach of children. Wash unintentional residues with soap and warm water.								
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 unintention						e. Keep	away fr	om chil	dren at all times!
7.3	Special Precautions:	Spilled material may present a	a slippir	ng haza	rd. Clean	up all spill	s promptly.				
		8. EXPOSURE CO	NTR	OLS	& PER	SONA	L PRO	ГЕСТ	ION		
8.1	Exposure Limits:		AC	GIH		NOHSC	1		OSHA	r	OTHER
	ppm (mg/m ³)	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
			25	35	25	50	NF	25	NA	NA 25	25 NIOSH
		p-PHENYLENEDIAMINE ETHANOLAMINE	NA 3	NA 6	NF 3	(0.1) NF	NF NF	(0.1)	NA 6	25 30	
8.2	Ventilation & Engineering Controls:	General mechanical (e.g., fa exhaust ventilation to effectiv product. Ensure appropriate	vely rer	nove a	nd preven	t buildup	of vapors	or mist	generat	ted fron	n the handling of this
8.3	Respiratory Protection:	instances where vapors or s needed, use only protection a	product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station). No special respiratory protection is required under typical circumstances of use or handling. In instances where vapors or sprays of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia.						s r		
8.4	Eye Protection:	Avoid eye contact. None req $(e.g., \ge 1 \text{ gallon } (3.8 \text{ L}))$ safety						andling	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 handling small quantities. Lab coat or apron should be worn to protect skin and clothing. When handling large quantities (e.g., ≥ 1 gallon), eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product, wash any exposed areas thoroughly with soap and water.									
		9. PHYSIC	AL &	CHE	MICAL	PRO	PERTIE	S			
	Appearance:	Cream, white to off-white									
9.1		Ammoniacal odor									
9.1 9.2	Odor:	Ammoniacai ouoi									
9.2	Odor: Odor Threshold:	NA									
9.2 9.3	Odor Threshold:	NA									
9.2 9.3 9.4	Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling	NA NA									
9.2 9.3 9.4 9.5	Odor Threshold: pH: Melting Point/Freezing Point:	NA NA 58-62 °C (136.4-143.6 °F)									
9.2 9.3 9.4 9.5 9.6 9.7	Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability	NA NA 58-62 °C (136.4-143.6 °F) NA									
9.2 9.3 9.4 9.5 9.6 9.7 9.8	Odor Threshold: pH: Melting Point/Freezing Point: Initial Boling Point/Boling Range: Flashpoint:	NA NA 58-62 °C (136.4-143.6 °F) NA NA									
9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9	Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits:	NA NA 58-62 °C (136.4-143.6 °F) NA NA NA									
9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9	Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure:	NA NA 58-62 °C (136.4-143.6 °F) NA NA NA NA									
9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 9.10 9.11	Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density:	NA NA 58-62 °C (136.4-143.6 °F) NA NA NA NA NA									
9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 9.10 9.11 9.12	Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density:	NA NA 58-62 °C (136.4-143.6 °F) NA NA NA NA NA NA NA									
9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 9.10 9.11 9.12 9.13	Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility:	NA NA 58-62 °C (136.4-143.6 °F) NA NA NA NA NA NA Partial									
9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 9.10 9.11 9.12 9.13 9.14	Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log P _{ow}):	NA NA 58-62 °C (136.4-143.6 °F) NA									
9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 9.10 9.11 9.12 9.13 9.14 9.15	Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log P _{ow}): Autoignition Temperature:	NA NA 58-62 °C (136.4-143.6 °F) NA									
9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 9.9 9.10	Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log P _{ow}): Autoignition Temperature: Decomposition Temperature:	NA NA 58-62 °C (136.4-143.6 °F) NA									
9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 9.10 9.11 9.12 9.13 9.14 9.15 9.16 9.16	Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log P _{ow}): Autoignition Temperature: Decomposition Temperature: Viscosity:	NA NA 58-62 °C (136.4-143.6 °F) NA	TABI		& RE/						
9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 9.10 9.11 9.12 9.13 9.14 9.15 9.16 9.16	Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log P _{ow}): Autoignition Temperature: Decomposition Temperature: Viscosity:	NA NA 58-62 °C (136.4-143.6 °F) NA									
9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 9.10 9.11 9.12 9.13 9.14 9.15 9.16 9.17 10.1	Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log Pow): Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information:	NA NA 58-62 °C (136.4-143.6 °F) NA NA	ns; unst	able wit	h heat or c	contaminat					
9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 9.10 9.11 9.12 9.13 9.14 9.15 9.16 9.17 10.1 10.2	Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log P _{ow}): Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information:	NA NA 58-62 °C (136.4-143.6 °F) NA NA NA NA NA NA NA NA NA NA NA NA NA	ns; unst nitroge	able wit n (NO _x)	h heat or c and sulfu	contaminat (SO ₂).	tion.				
9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9 9.10 9.11 9.12 9.13 9.14 9.15 9.16 9.17 10.1	Odor Threshold: pH: Melting Point/Freezing Point: Initial Boiling Point/Boiling Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log Pow): Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information:	NA NA 58-62 °C (136.4-143.6 °F) NA NA NA NA NA NA NA NA NA NA NA NA NA	ns; unsta nitroger at, inco	able wit n (NO _x) mpatible	h heat or o and sulfu e substanc	contaminat r (SO ₂). ces and dir	tion. rect sunligh	t.			

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11. TOXICOLOGICAL INFORMATION Inhalation: YES 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 and Resorcinol, which are not carcinogenic to humans, but are listed as Group 3 carcinogens by the IARC. This product contains p-Phenylenediamine, which is listed by ACGIH in group A4. Reproductive Toxicity: 116 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 Ammonium Hydroxide (as ammonia) and p-Phenylenediamine are subject to the reporting requirements of SARA Title III, Requirements: Sections 312/313 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.

 15.4
 CERCLA Reportable Quantity (RQ):
 Ammonium Hydroxide (Ammonia): 454 kg (1,000 lbs); p-Phenylenediamine: 2,270 kg (5,000 lbs).

 15.5
 Other Federal Requirements:
 This product complies with the appropriate sections of the Food and Drug Administration's 21 C

 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

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.

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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

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:

	•••••••••••••••••••••••••••••••••••••••										
Α	0					G		F			
в	0					Н		F			
С	0		Ę			Ι		F			
D	C y					J		F)		
Е	0		Ø			κ	(1) (1)	E			
F	0		Ę			Χ			upervisor g directio		SOPs for
Safe	ety Glasse	es	Splash	Goggles	Р		Shield &		Gla) oves	
	Boots		Syntheti	c Apron	Ρ		tive Cloth	ing	Dust Re	B Spin	rator
Full Face Respirator					JII Face spirator		Airline H or S	ood SCB/			
OTHER STANDARD ABBREVIATIONS:											
	ML	Maxim	num Limit								
	mg/m3	milligra	ams per cu	bic meter							
	NA	Not Av	/ailable								
	ND	Not De	etermined								
	NE		stablished								
	NE	Not Lo									

HAZARD RATINGS: 0 Minimal Hazard 1 Slight Hazard 2 Moderate Hazard 3 Severe Hazard 4 Extreme Hazard ACD Acidic ALK Alkaline COR Corrosive W Use No Water OX Oxidizer TREFOIL Radioactive



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 _{Io}	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
TC	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:

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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:

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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					