

Hazard Identification:

SAFETY DATA SHEET

Page 1 of 6 **KIK-009**

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision: 1.5

SDS Revision Date: 1/1/2018

	1. PRODUCT & COMPANY IDENTIFICATION				
1.1	Product Name:	JOHN PAUL MITCHELL SYSTEMS - AWAPUHI WILD GINGER FINISHING SPRAY 55% VOC			
1.2	Chemical Name:	Aerosol			
1.3	Synonyms:	John Paul Mitchell Systems - Awapuhi Wild Ginger Finishing Spray 55%VOC - B9124C			
1.4	Trade Names:	John Paul Mitchell Systems - Awapuhi Wild Ginger Finishing Spray			
1.5	Product Uses & Restrictions:	Professional and Cosmetic Use			
1.6	Distributor's Name:	KIK Custom Products.			
1.7	Distributor's Address:	2030 Old Candler Road, Gainesville, GA 30507 USA			
1.8	Emergency Phone:	CHEMTEL: +1 (813) 248-0585 / +1 (800) 255-3924			
1.9	Business Phone / Fax:	+1 (770) 534-0300 / +1 (770) 534-8954			

2. HAZARDS IDENTIFICATION

This product is classified as a HAZARDOUS SUBSTANCE and as DANGEROUS GOODS according to the classification criteria of NOHSC:1008 (2004) and ADG Code (Australia). WARNING! FLAMMABLE AEROSOL. PRESSURIZED CONTAINER: MAY BURST IF HEATED. HIGHLY FLAMMABLE LIQUID AND VAPOR. CAUSES EYE IRRITATION. Classification: Aerosol Level 2, Category 1 Aerosol; Extremely Flammable Aerosol Hazard Statements (H): H223 - Flammable aerosol. H229 - Pressurized container: may burst if heated. H320 - Causes eye irritation. Precautionary Statements (P): P210 - Keep away from heat, hot surfaces, sparks, open flames



and other ignition sources. No Smoking. P211 – Do not spray on an open flame or other ignition source. P251 – Do not pierce or burn, even after use. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P337+P313 - If eye Irritation persists: Get medical advice/attention. P101 If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P410+P412 - Protect from sunlight. Do not expose to temperature exceeding 50 °C (122 °F). P501 - Dispose of contents/container to licensed and permitted disposal or recycling facility.

3. COMPOSITION & INGREDIENT INFORMATION

				EXP					EXPOSURE LIMITS IN AIR (mg/m³)				
					ACC	SIH		NOHSC			OSHA		
					pp	m		ppm			ppm		
				ĺ			ES-	ES-	ES-				
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	TWA	STEL	PEAK	PEL	STEL	IDLH	OTHER
ETHANOL (SD ALCOHOL 40B)	64-17-5	KQ6300000	200-578-6	30-60	1000	3000	1000	1800	NF	1000	1900	3300	
ETHANOL (SD ALCOHOL 40B)	Flam. Liq. 2; H2	225											
DIFLUOROETHANE (R-152a)	75-37-6	KI4100000	200-866-1	30-45	1000	NA	1000	NA	NA	NE	NA	NA	
DIFLOOROETHANE (K-192a)	Flam. Gas 1; H	220											

4. FIRST AID MEASURES

4.1	First Aid:	Ingestion:	If ingested, do not induce vomiting! If product has been swallowed, drink plenty of water or milk
			IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give water or milk to an unconscious person. Contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed.
		<u>Skin</u> :	If irritation occurs & product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with plenty of soap and water. Remove contaminated clothing and wash thoroughly before reuse. If irritation, redness or swelling persists, consult a physician immediately.
		Eyes:	If product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. Raise and lower eyelid(s) while flushing to ensure thorough irrigation. If problems persist seek immediate medical attention.
		<u>Inhalation</u> :	Remove victim to fresh air and keep comfortable for breathing. If breathing is difficult, administer supplemental oxygen and seek immediate medical attention. If breathing stops, perform artificial respiration
4.2	Effects of Exposure:	Ingestion:	If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system depression.
		Eyes:	Moderately irritating to the eyes.
		Skin:	May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals upon prolonged or repeated exposure.
		Inhalation:	Vapors of this product may be moderately irritating to the nose, throat and other tissues of the respiratory system. Symptoms of overexposure can include coughing, wheezing, nasal congestion, and difficulty
			breathing. Inhalation of concentrated vapors can cause central nervous system depression (e.g., drowsiness, dizziness, headaches, nausea).
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.5 SDS Revision Date: 1/1/2018

	ared to OSHA, ACC, ANSI, N)18		
		4. FIRST AID MEASURES - cont'	d			
4.3	Symptoms of Overexposure: Acute Health Effects:	Ingestion: Eyes: Overexposure in eyes may cause redness, itching a Contact may cause mild eye irritation including stinging, your skin reactions (e.g., rashes, welts, dermatitis) in so overexposure may include redness, itching, and irritation Inhalation: May cause nausea, vomiting and/or diarrhea and central Coverexposure in eyes may cause redness, itching at gringly skin reactions (e.g., rashes, welts, dermatitis) in so overexposure may include redness, itching, and irritation Inhalation: Moderate irritation to eyes and skin near affected areas. Addition	nervous system depression. and watering (risk of serious damag watering and redness. d irritation of skin. The product can ca ome sensitive individuals. Symptor of affected areas. zing, nasal congestion, and difficulty bro	use allerg ms of sk eathing.		
		drowsiness, dizziness, headaches and nausea.				
4.5	Chronic Health Effects:	No harmful or chronic health effects are expected to occur from a single accidental ingestion. These ingredients may be irritating to skin and mucous membrane of the eye and respiratory system. Overexposure may trigger asthma-like symptoms in some sensitive individuals. May also induce skin sensitization and respiratory hypersensitivity. Possible allergic dermatitis.				
4.6 4.7	Target Organs: Medical Conditions	Eyes, skin, respiratory system.	115 41 711			
4.7	Aggravated by Exposure:	Acute health hazards may be delayed. Most common symptoms include irritating properties to eyes, respiratory system and skin. Existing dermatological conditions (such as eczema) and respiratory conditions (such as bronchial asthma and/or bronchitis) may be exacerbated.	FLAMMABILITY PHYSICAL HAZARDS PROTECTIVE EQUIPMENT	1 3 0 B		
		chassisated.	EYES SKIN			
		5. FIREFIGHTING MEASURES				
5.2 5.3	Extinguishing Methods: Firefighting Procedures:	flammable liquids or/or exposed gasses if exposed to the heat of first spraying them with water until the fire has been extinguished. Water Fog, Foam, Dry Chemical, CO ₂ As in any fire, wear MSHA/NIOSH approved self-contained breat demand) and full protective gear. Keep containers cool until well aft spray to cool fire-exposed surfaces and to protect personal. Fight for the spray to cool fire-exposed surfaces and to protect personal.	athing apparatus (pressure- er the fire is out. Use water fire upwind. Avoid spraying	3 0		
		water directly into storage containers because of danger of boil-ove control or dilution from entering sewers, drains, drinking water suppl Firefighters must use full bunker gear including NIOSH-approved post breathing apparatus to protect against potential hazardous combustion and oxygen deficiencies.	ly, or any natural waterway. iitive pressure self-contained			
		control or dilution from entering sewers, drains, drinking water suppl Firefighters must use full bunker gear including NIOSH-approved pos breathing apparatus to protect against potential hazardous combustion	ly, or any natural waterway. itive pressure self-contained n or decomposition products			
6.1	Spills:	control or dilution from entering sewers, drains, drinking water suppl Firefighters must use full bunker gear including NIOSH-approved pos breathing apparatus to protect against potential hazardous combustion and oxygen deficiencies.	ly, or any natural waterway. itive pressure self-contained in or decomposition products RES nup must wear appropriate Persona fron may be required for clean-up of lar and protective eyewear. Use a nonce into a container for later disposal. The pup material using non-sparking main plastic liner within another container. Away from spill. Stay upwind and away from spill. Stay upwind and away sonnel out of area. Stop spill or release	ge spills. combustible Do not usterials (e.gover) gray from specific to an be		
6.1	Spills:	control or dilution from entering sewers, drains, drinking water supplifirefighters must use full bunker gear including NIOSH-approved post breathing apparatus to protect against potential hazardous combustion and oxygen deficiencies. 6. ACCIDENTAL RELEASE MEASUR Before cleaning any spill or leak, individuals involved in spill cleat Equipment. Plastic or rubber gloves, respirator, eye protection and ap Small Spills: Wear appropriate protective equipment including gloves material such as vermiculite or sand to soak up the product and place water or a material such as "speedy dry" to soak up material. Sweet plastic brooms, shovels, dustpans) and place into a plastic container or Large Spills: Keep incompatible materials (e.g., organics such as oil) or release. Isolate immediate hazard area and keep unauthorized persone with minimal risk. Wear appropriate protective equipment including	Ity, or any natural waterway. Ititive pressure self-contained on or decomposition products RES In mup must wear appropriate Personal aron may be required for clean-up of lar and protective eyewear. Use a nonce into a container for later disposal. Exp up material using non-sparking main plastic liner within another container, away from spill. Stay upwind and away sonnel out of area. Stop spill or releasing respiratory protection as conditions.	ge spills. combustib Do not us terials (e.c ay from sp e if it can b		
7.1	Spills: Work & Hygiene Practices:	control or dilution from entering sewers, drains, drinking water supplifier fighters must use full bunker gear including NIOSH-approved post breathing apparatus to protect against potential hazardous combustion and oxygen deficiencies. 6. ACCIDENTAL RELEASE MEASUF Before cleaning any spill or leak, individuals involved in spill cleat Equipment. Plastic or rubber gloves, respirator, eye protection and ap Small Spills: Wear appropriate protective equipment including gloves material such as vermiculite or sand to soak up the product and plact water or a material such as "speedy dry" to soak up material. Sweet plastic brooms, shovels, dustpans) and place into a plastic container or Large Spills: Keep incompatible materials (e.g., organics such as oil) or release. Isolate immediate hazard area and keep unauthorized personal such as "speedy dry".	ly, or any natural waterway. itive pressure self-contained in or decomposition products RES nup must wear appropriate Persona iron may be required for clean-up of lar and protective eyewear. Use a non- itie into a container for later disposal. it pup material using non-sparking ma inplastic liner within another container. away from spill. Stay upwind and awa isonnel out of area. Stop spill or release ing respiratory protection as conditions. TION under pressure. Handle as to avoid ment is necessary. Use chemical go	ge spills. combustib Do not us terials (e.g ay from sp e if it can b warrant. puncturir		
		control or dilution from entering sewers, drains, drinking water supplifirefighters must use full bunker gear including NIOSH-approved post breathing apparatus to protect against potential hazardous combustion and oxygen deficiencies. 6. ACCIDENTAL RELEASE MEASUF Before cleaning any spill or leak, individuals involved in spill cleat Equipment. Plastic or rubber gloves, respirator, eye protection and ap Small Spills: Wear appropriate protective equipment including gloves material such as vermiculite or sand to soak up the product and place water or a material such as "speedy dry" to soak up material. Sweet plastic brooms, shovels, dustpans) and place into a plastic container or Large Spills: Keep incompatible materials (e.g., organics such as oil) or release. Isolate immediate hazard area and keep unauthorized persone with minimal risk. Wear appropriate protective equipment including the product. 7. HANDLING & STORAGE INFORMA Do not eat, drink or smoke when handling this product. Contents container(s). When used as intended, no additional protective equip	Ity, or any natural waterway. Itive pressure self-contained in or decomposition products RES In mup must wear appropriate Persona aron may be required for clean-up of lar and protective eyewear. Use a nonce into a container for later disposal. It is up with an action of the protective eyewear and plastic liner within another container. It is away from spill. Stay upwind and away from spill. Stay upwind and away from spill. Stay upwind and away from spill are released to the protection as conditions of the protection as conditions. TION In the pressure is a transport of the protection as to avoid ment is necessary. Use chemical gower water. But the pressure is a transport of the protection and the pressure is necessary. Use chemical gower water. But the protection as the protection as a void ment is necessary. Use chemical gower water. But the protection as the protection as a void ment is necessary. Use chemical gower water. But the protection as the protection as conditions of the protection as conditions.	ge spills. combustib Do not us terials (e.c. ay from sp e if it can b warrant. puncturir ggles if ey t and dire		



10.3

Hazardous Polymerization:

Conditions to Avoid:

10.5 Incompatible Substances:

Will not occur.

Mixture with strong acids, alkalis or oxidizers.

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.5 SDS Revision Date: 1/1/2018 8. EXPOSURE CONTROLS & PERSONAL PROTECTION OTHER Exposure Limits: ppm (mg/m³) TLV STEL ES-TWA ES-STEL STEL CHEMICAL NAME(S) ETHANOL(SD ALCOHOL 40B) 1000 3000 1000 1800 NF 1000 1900 3300 DIFLUOROETHANE (R-152a) 1000 NA 1000 NA NA NE NA NA 8.2 Ventilation & Engineering General mechanical (e.g., fans) or natural ventilation is sufficient when this product is in use. Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this 8.3 Respiratory Protection: No special respiratory protection is required under typical circumstances of use or handling. In instances where dusts 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. Eye Protection: Avoid eye contact. None required under normal conditions of use. Safety glasses could be used when handling or using large quantities of this product. None required under normal conditions of use. However, may cause skin irritation in some 8.5 Hand Protection sensitive individuals. When handling large quantities (e.g., ≥ 1 gallon (3.8 L)), wear rubber, nitrile or impervious plastic gloves. 8.6 Body Protection: No apron required when handling small quantities. When handling large quantities (e.g., ≥ 5 lbs), 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. PHYSICAL & CHEMICAL PROPERTIES Appearance: Aerosol, clear misty spray of liquid Odor Fresh floral Odor Threshold: NA NΑ 9.5 Melting Point/Freezing Point: NA 9.6 Initial Boiling Point/Boiling NA 97 Flashpoint -30 °F (-34 °C)TCC for propellant only: 35.6 °F (2 °C) EPA method 1010 (concentrate only) 9.8 Upper/Lower Flammability 9.9 Vapor Pressure: @ 20 °C (68 °F) - Can pressure not to exceed 180 psig @ 55 °C (131 °F) 12.4 bar Vapor Density Relative Density: 0.81-0.85 9.12 Solubility: Soluble Partition Coefficient (log Pow) NA 9.14 Autoignition Temperature: NA 9.15 Decomposition Temperature: NΑ Viscosity: Aerosol at ambient temperature 9.17 Other Information: Evaporation Rate > 1: Percent Volatile 55% 10. STABILITY & REACTIVITY Stability: Stable at normal temperatures. Hazardous Decomposition Oxides of carbon (CO, CO₂) and sulfur (SO₂). Products:

Excessive heat, direct sunlight, flames, heat sources and incompatible substances.



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SDS Revision: 1.5 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 1/1/2018 11. TOXICOLOGICAL INFORMATION 11.1 Routes of Entry: Absorption: YES Ingestion: YES Toxicity Data: This product was not tested on animals. Acute Toxicity: See Section 4.4 11.4 Chronic Toxicity: See Section 4.5 Suspected Carcinogen 11.5 11.6 Reproductive Toxicity: This product is not reported to cause 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. Irritancy of Product: See Section 4.3 Biological Exposure Indices: NE Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: There is no specific data available for this product. Effects on Plants & Animals: There is no specific data available for this product. Effects on Aquatic Life: The product itself has not been tested as a whole. There is no specific data available for this product. 13. DISPOSAL CONSIDERATIONS Waste Disposal: Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, and federal laws and regulations. Contact the appropriate agency for specific information. A licensed facility or waste hauler must provide treatment, transport, storage and disposal of hazardous waste 13.2 Special Considerations: U.S. EPA Hazardous Waste - Characteristic - Ignitable (D001) 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): UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L); or CONSUMER COMMODITY, ORM-D (IP VOL ≤ 1.0 L) - until 12/31/2020 IATA (AIR): UN1950, AEROSOLS, FLAMMABLE, 2.1 (LTD QTY, IP VOL ≤ 0.5 L); or ID8000, CONSUMER COMMODITY, ORM-D (IP VOL ≤ 0.5 L) IMDG (OCN): UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L) TDGR (Canadian GND): UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L); or MARK PACKAGE "LIMITED QUANTITY," "LTD QTY," or "QUANT LTÉE" or "QUANTITÉ LIMITÉE" ADR/RID (EU): UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L) 14.6 SCT (MEXICO): UN1950, AEROSOLES, 2.1 (CANTIDAD LIMITADA, IP VOL ≤ 1.0 L) ADGR (AUS): UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L) 15. REGULATORY INFORMATION SARA Reporting This product does not contain any substances subject to SARA Title III, section 313 reporting requirements. Requirements SARA Threshold Planning There are no specific Threshold Planning Quantities for the components of this product. TSCA Inventory Status: The components of this product are listed on the TSCA Inventory. CERCLA Reportable Quantity Ethanol: 2270 kg; 5000 lbs. Other Federal Requirements This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR Subchapter G, Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the MSDS 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 Class B5 (Flammable Aerosol)



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.5 SDS Revision Date: 1/1/2018 15. REGULATORY INFORMATION - cont'd State Regulatory Information: Ethanol is found on the following state criteria lists: Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Pennsylvania Right-to-Know List (PA), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ). <u>Difluoroethane</u> can be found on the following state criteria lists: MA and NJ. 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). The primary components of this product are listed in Annex I of EU Directive 67/548/EEC. Other Requirements: Ethanol: Flammable (F), Risk Phrases (R): 11 - Flammable, Safety Phrases (S): 2-7-16 - Keep out of reach of children. Keep container tightly closed. Keep away from sources of ignition - No smokina. 16. OTHER INFORMATION

WARNING! FLAMMABLE AEROSOL. PRESSURIZED CONTAINER: MAY BURST IF HEATED. HIGHLY FLAMMABLE LIQUID AND VAPOR. CAUSES EYE IRRITATION. Keep away from heat, hot surfaces, sparks, open Other Information: flames and other ignition sources. No Smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing vapor/spray. Wash thoroughly with soap and water after handling. Use only in a well-ventilated area. Wear eye protection. Protect from sunlight. Do not expose to temperature exceeding 50 °C (122 °F). IF INHALED: Remover person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye Irritation persists: Get medical advice/attention. **KEEP LOCKED UP AND OUT OF REACH OF CHILDREN**. See last page of this Safety Data Sheet. Terms & Definitions: 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 & KIK Custom Products' 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. Prepared for: KK Custom Products 2030 Old Candler Road KIK CUSTOM PRODUCTS Gainesville, GA 30507 USA Tel: +1 (770) 534-0300 Fax: +1 (770) 534-8954 http://www.kikcorp.com 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**



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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				
С	Ceiling Limit				
ES	Exposure Standard (Australia)				
I DLH	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:

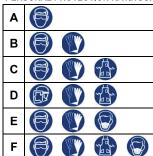
CPR Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.

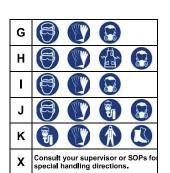
HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

HEALTH
FLAMMABILITY
PHYSICAL HAZARDS
PERSONAL PROTECTION

PERSONAL PROTECTION RATINGS:













Protective Clothing







Synthetic Apron





OTHER STANDARD ABBREVIATIONS:

ML	Maximum Limit				
mg/m3	milligrams per cubic meter				
NA	Not Available				
ND	Not Determined				
NE	Not Established				
NF	Not Found				
NR	No Results				
ppm	parts per million				
SCBA	Self-Contained Breathing Apparatus				

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

	TO THE THE TEST OF				
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	UEL Upper Explosive Limit - highest percent of vapor in air, by volume, that will				
1	explode or ignite in the presence of an ignition source				

HAZARD RATINGS:

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



т	_	v	\sim	OCIC AI	INFORMATION:	

LD ₅₀	Lethal Dose (solids & liquids) w PRECAUTIONS
	S
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
TL _m	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:

0	*	(A)	@	(+)	®		
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:

			*		×	X	×
С	E	F	N	0	Т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

			\Diamond	FT STATE OF THE ST				
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Hea l th Hazard	Environment