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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision Date: 10/15/2025 SDS Revision: 1.1 1. PRODUCT & COMPANY IDENTIFICATION 11 Product Name ACTIVE® GRIP CLEANER SPRAY 1.2 Chemical Name: NA 1.3 Synonyms NA Trade Names: 1.4 Active® Grip Cleaner Spray 1.5 Product Use: Grip Cleaner Distributor's Name: 1.6 Active B, LLC Distributor's Address: 3147 California Street, NE, Suite 100-A, Minneapolis, MN 55418 USA 17 1.8 Emergency Phone: INFOTRAC +1 (800) 535-5053 // +1 (352-323-3500) Business Phone / Fax: Tel: +1 (888) 997-2131) 1.9 HAZARDS IDENTIFICATION 2.1 Hazard Identification: Prepared in accordance with UN Globally Harmonized standards. Intended to comply with OSHA 29 CFR 1910.1200. Canadian WHMIS and Australian Work Health and Safety Regulations. WARNING! CAUSES SERIOUS EYE IRRITATION. Classification: Eye Irrit. 2A 2.2 Label Elements: Hazard Statements (H): H319 - Causes serious eve irritation. Precautionary Statements (P): P264+P265 – Wash thoroughly with soap and water after handling. Do NOT touch eyes. P280 – Wear protective gloves/protective clothing/eye protection/face protection. P305+P354+P338 - IF IN EYES: Immediately rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P317 - If eye irritation persists: Get medical help. Other Warnings: In the event of an exposure or medical inquiry involving this product, please contact a physician or local poison control center, who may seek advice from the U.S. manufacturer, and show them this SDS. KEEP OUT OF REACH OF CHILDREN. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) **ACGIH** NOHSC ppm Ppm ppm ES-ES-ES-CHEMICAL NAME(S) RTECS No. EINECS No. STEL TWA STEL PEAK PEL STEL IDLH OTHER CAS No. PROPRIFTARY NON-NA NA NA 80-95 NA NA NF NF NF NA NA NA HAZARDOUS BLEND 112-34-5 KJ9100000 203-961-6 ≤ 5 NA NA NF NF NF NA NA NA 2-(2-BUTOXYETHOXY) ETHANOL Eye Irrit. 2A; H319 AH5075000 200-573-9 ≤ 1 64-02-8 NA NA NF NF NF NA NA NA TETRASODIUM EDTA Acute Tox. (oral) 4, Eye Dam. 1; H302, H318 NA ≤ 1 NA NA NF NF NF NA NA NA NA NA FRAGRANCE 9003-39-8 TR837000 658-049-4 NA NA NF NF NF NA NA NA POLYVINYLPYRROLIDONE 4. FIRST AID MEASURES DO NOT INDUCE VOMITING. Contact ChemTrec +1 (800) 424-9300 or the nearest Poison Control First Aid Ingestion: 4.1 Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 minutes, Eyes: holding eyelid(s) open to ensure complete flushing. If the eyes or face become swollen during or following use, consult a physician or emergency room immediately. Remove contaminated clothing and wash affected areas with soap and water. If discomfort persists and/or Skin: the skin reaction worsens, contact a physician immediately. Do not wear contaminated clothing until after it has been properly cleaned. Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial Inhalation: respiration. Seek immediate medical attention. 42 Effects of Exposure: If product is swallowed, may cause nausea, intestinal discomfort, vomiting and/or diarrhea. Ingestion: Symptoms of overexposure may include redness, itching, irritation, and watering. Eyes: Skin: May be irritating to skin in some sensitive individuals. None expected. Inhalation:



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4.3		4. FIRST AID MEASURES – cont'd		
7.0	Symptoms of Overexposure:	Symptoms of overexposure may include redness, itching, irritation, and watering. In some sensitive individuals, symptoms of skin overexposure may include redness, itching, and irritation of affected areas.		
4.4	Acute Health Effects:	Moderate irritation to eyes. Moderate irritation to skin near affected areas and with some sensitive individuals.		
4.5	Chronic Health Effects:	No harmful or chronic health effects are expected to occur from a single accidental ingestion. Components of this product contained in very small, may be mild allergens to some sensitive individuals.		
4.6 4.7	Target Organs:  Medical Conditions	Eyes, Skin	_	
4.1	Aggravated by Exposure:	Pre-existing dermatitis, and disorders of the target organs (eyes).	2	
		FLAMMABILITY	0	
		PHYSICAL HAZARDS	1	
		PROTECTIVE EQUIPMENT	В	
		EYES SKIN LUNGS		
		5. FIREFIGHTING MEASURES		
5.1	Fire & Explosion Hazards:	If involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., $CO, CO_2, NO_x$ ).		
5.2	Extinguishing Methods:	Water, Foam, CO <sub>2</sub> , Dry Chemical		
5.3	Firefighting Procedures:	Water, Foam, CO <sub>2</sub> , Dry Chemical  First responders should wear eye protection. Structural fire fighters must wear full protective equipment and MSHA/NIOSH-approved self-contained breathing apparatus. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas. If necessary, rinse contaminated equipment with soapy water before returning to service.		
	1	6. ACCIDENTAL RELEASE MEASURES		
6.1	Spills:	Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Prof	4:.	
		For small spills (e.g., < 1 gallon (3.8 L)) or large spills (e.g., $\geq$ 1 gallon (3.8 L)), wear appropriate personal prof	ectiv	
		For <u>small spills</u> (e.g., < 1 gallon (3.8 L)) or <u>large spills</u> (e.g., ≥ 1 gallon (3.8 L)), wear appropriate personal prof equipment (e.g., goggles, gloves). Remove spilled material and place into appropriate closed container(s) for dis Dispose of properly in accordance with local, state, and federal regulations. Wash all affected areas and outs container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before	posa ide d	
		equipment (e.g., goggles, gloves). Remove spilled material and place into appropriate closed container(s) for dis Dispose of properly in accordance with local, state, and federal regulations. Wash all affected areas and outs container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before a container with plenty of warm water and soap. The state of the	posa ide d euse	
7.1	Work & Hygiene Practices:	equipment (e.g., goggles, gloves). Remove spilled material and place into appropriate closed container(s) for dis Dispose of properly in accordance with local, state, and federal regulations. Wash all affected areas and outs container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before	posa ide d reuse ontac whe	
7.1	Work & Hygiene Practices:  Storage & Handling:	equipment (e.g., goggles, gloves). Remove spilled material and place into appropriate closed container(s) for dis Dispose of properly in accordance with local, state, and federal regulations. Wash all affected areas and outs container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before a container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before a container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before a container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before a container with plenty of wash thoroughl	posa ide of euse ontac whe idues latior	
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7.2	Storage & Handling:	equipment (e.g., goggles, gloves). Remove spilled material and place into appropriate closed container(s) for dis Dispose of properly in accordance with local, state, and federal regulations. Wash all affected areas and outs container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before a container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before a container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before a container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before a container with plenty of wash thoroughly before a container with plenty of wash thoroughly before a container with plenty of wash thoroughly after brouder. Avoid breathing mists or spray. Avoid eye and skin or wear protective equipment when handling product. Keep out of the reach of children. Do not eat, drink or smoke handling this product. Wash thoroughly after handling. Immediately clean-up and decontaminate any spills or restricted in a cool, dry, well-ventilated location (e.g., local exhaust ventifans) away from heat and direct sunlight. Keep away from incompatible substances (see Section 10). Protect cont from physical damage.	posal ide o euse ontaci whel idues	
7.2	Storage & Handling:	equipment (e.g., goggles, gloves). Remove spilled material and place into appropriate closed container(s) for dis Dispose of properly in accordance with local, state, and federal regulations. Wash all affected areas and outs container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before a container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before a container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before a container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before a container with plenty of wash thoroughly before a container with plenty of wash thoroughly before a container with plenty of wash thoroughly after broughly. Acein a cool, dry displaying the container wash thoroughly after handling. Immediately clean-up and decontaminate any spills or restricted plants are contained as a cool, dry, well-ventilated location (e.g., local exhaust ventificated location	posa ide o euse ontac whe idues latior ainer	
7.2	Storage & Handling:  Special Precautions:	equipment (e.g., goggles, gloves). Remove spilled material and place into appropriate closed container(s) for dis Dispose of properly in accordance with local, state, and federal regulations. Wash all affected areas and outs container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before in the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before in the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before in the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before in the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before in the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before in the container with plenty of warm wash thoroughly before in the container with plenty of warm water and soap. Remove any containing mists or spray. Avoid eye and skin containing this product. Avoid breathing mists or spray. Avoid eye and skin containing this product. Wash thoroughly after handling. Immediately clean-up and decontaminate any spills or restricted the containing this product. Wash thoroughly after handling. Immediately clean-up and decontaminate any spills or restricted the containing this product. Wash thoroughly after handling. Immediately clean-up and decontaminate any spills or restricted to not eat, drink or smoke handling this product. Wash thoroughly after handling. Immediately clean-up and decontaminate any spills or restricted to not eat, drink or smoke handling this product. Wash thoroughly after handling. Immediately clean-up and decontaminate any spills or restricted to not eat, drink or smoke handling this product. Avoid breathing mists or spray. Avoid eye and skin containers or spray.	posa ide d euse ontac whe idues lation ainer	
7.2	Storage & Handling:  Special Precautions:  Exposure Limits:	equipment (e.g., goggles, gloves). Remove spilled material and place into appropriate closed container(s) for dis Dispose of properly in accordance with local, state, and federal regulations. Wash all affected areas and outs container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before in the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before in the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before in the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before in the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before in the container with plenty of warm wash thoroughly before in the container with plenty of warm wash thoroughly before in the container wash thoroughly after handling. Immediately clean-up and decontaminate any spills or restricted by the container wash thoroughly after handling. Immediately clean-up and decontaminate any spills or restricted by the container wash thoroughly after handling. Immediately clean-up and decontaminate any spills or restricted by the container wash thoroughly after handling. Immediately clean-up and decontaminate any spills or restricted by the container wash thoroughly after handling. Immediately clean-up and decontaminate any spills or restricted by the container wash thoroughly after handling. Immediately clean-up and decontaminate any spills or restricted by the container wash thoroughly after handling. Immediately clean-up and decontaminate any spills or restricted by the container wash thoroughly after handling this product. Avoid breathing mists or spray. Avoid eye and skin container wash thoroughly before in the	posa ide euse ontac whe idue latio aine	
7.2	Storage & Handling:  Special Precautions:  Exposure Limits: ppm (mg/m³)  Ventilation & Engineering	equipment (e.g., goggles, gloves). Remove spilled material and place into appropriate closed container(s) for dis Dispose of properly in accordance with local, state, and federal regulations. Wash all affected areas and outs container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before in the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before in the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before in the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before in the container with plenty of wash thoroughly after handling this product. Avoid breathing mists or spray. Avoid eye and skin or Wear protective equipment when handling product. Keep out of the reach of children. Do not eat, drink or smoke handling this product. Wash thoroughly after handling. Immediately clean-up and decontaminate any spills or restricted in the container wash product. Wash thoroughly after handling. Immediately clean-up and decontaminate any spills or restricted in the container wash product each of children. Do not eat, drink or smoke handling this product. Wash thoroughly after handling. Immediately clean-up and decontaminate any spills or restricted in the container wash product each of children. Do not eat, drink or smoke handling decontaminate any spills or restricted in the container wash product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower).	posa ide c reuse  ontac whe idues latior ainer	
7.3	Storage & Handling:  Special Precautions:  Exposure Limits: ppm (mg/m³)  Ventilation & Engineering Controls:	equipment (e.g., goggles, gloves). Remove spilled material and place into appropriate closed container(s) for dis Dispose of properly in accordance with local, state, and federal regulations. Wash all affected areas and outs container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before the container with plenty of wash thoroughly before the container with plenty of warm wash station in accordance with plenty of wash thoroughly before the container with plenty of wash the container with plenty of wash the container with plenty of wash station in the container with plenty of wash station in the container with plenty of the container of the container with plenty of the container with ple	posa ide ( reuse  ontac whe idue lation ainer	
7.3	Storage & Handling:  Special Precautions:  Exposure Limits: ppm (mg/m³)  Ventilation & Engineering Controls:  Respiratory Protection:	equipment (e.g., goggles, gloves). Remove spilled material and place into appropriate closed container(s) for dis Dispose of properly in accordance with local, state, and federal regulations. Wash all affected areas and outs container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before in the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before in the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before in the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before in the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before in the container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before in the container.  Note that the container wash is product. A container wash and direct sunlight. Keep away from incompatible substances (see Section 10). Protect containers may retain hazardous product residues.  REMPOSURE CONTROLS & PERSONAL PROTECTION  ACGIH  NOHSC  CHEMICAL NAME(S)  TLV  STEL  SCOLUM HYPOCHLORITE  NA  NA  NF  NF  NF  NF  NA  NA  NF  NF	posa ide c reuse  ontac whe idues latior ainer	



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	9. PHYSICAL & CHEMICAL PROPERTIES				
9.1	Appearance: Clear to light yellow liquid/spray				
9.2	Odor:	Sharp, pungent, bleach-like odor			
9.3	Odor Threshold:	NA NA			
9.4	pH:	10.5 @ 19 - 22°C			
9.5	Melting Point/Freezing Point:	NA NA			
9.6	Initial Boiling Point/Boiling Range:	NA NA			
9.7	Flashpoint:	NA			
9.8	Upper/Lower Flammability Limits:	LEL: NA; UEL: NA			
9.9	Vapor Pressure:	17.5 mmHg @ 20 °C			
9.10	Vapor Density:	2.5			
9.11	Relative Density:	1.083, est.			
9.12	Solubility:	Soluble in water			
9.13	Partition Coefficient (log Pow):	NA			
9.14	Autoignition Temperature:	NA			
9.15	Decomposition Temperature:	NA NA			
9.16	Viscosity:	NA NA			
9.17	Other Information:	Evaporation Rate: < 1.0 (ethyl ether = 1.0)			
		10. STABILITY & REACTIVITY			
10.1	Stability:	This product is stable.			
10.2	Hazardous Decomposition Products:	Oxides of carbon (e.g., CO, CO <sub>2</sub> )			
10.3	Hazardous Polymerization:	Will not occur.			
10.4	Conditions to Avoid:	Open flames, sparks, high heat and direct sunlight.			
10.5	Incompatible Substances:	None known or reported.			
		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 are 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			
11.6	Reproductive Toxicity:	harm. For more information go to www.P65Warnings.ca.gov.			
11.0	Mutagenicity:	This product is not reported to produce reproductive toxicity in humans.  This product is not reported to produce mutagenic effects in humans.			
	Embryotoxicity:	This product is not reported to produce mutagenic enects in numans.  This product is not reported to produce embryotoxic effects in humans.			
	Teratogenicity:	·			
	Reproductive Toxicity:	This product is not reported to cause teratogenic effects in humans.  ity: This product is not reported to cause reproductive effects in humans.			
11.7	Irritancy of Product:	See Section 4.2			
11.8	Biological Exposure Indices:	NE			
11.9	Physician Recommendations:	Treat symptomatically.			
		12. ECOLOGICAL INFORMATION			
12.1	Environmental Stability:	There is no specific data available.			
12.2	Effects on Plants & Animals:	There is no specific data available.			
12.3	Effects on Aquatic Life:	There is no specific data available.			
		13. DISPOSAL CONSIDERATIONS			
13.1	Waste Disposal:	Waste disposal must be in accordance with appropriate Federal, state, and local regulations.			
13.2	Special Considerations:	NA			



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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				
14.1	e required by 49 CFR, IATA/ 49 CFR (GND):	/ICAO, IMDG and the CTDGR.			
14.1	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		<del></del>	
14.7	ADGIT (AGG).	NOT REGULATED		<u> </u>	
		15. REGULATORY IN	IFORMATION		
15.1	SARA Reporting Requirements:	This product does not contain any substances sul	oject to SARA Title III, section 313	reporting requirements.	
15.2	SARA TPQ:	There are no specific Threshold Planning Quantiti	ies for the components of this prod	uct.	
15.3	TSCA Inventory Status:	The components of this product are listed on the	TSCA Inventory.		
15.4	CERCLA Reportable Quantity:	NA			
15.5	Other Federal Requirements:	This material does not contain any hazardous air p pollutants under the CWA. None of the component			
15.6	Other Canadian Regulations:	This product has been classified according to the required by the HPR. The components of this product are listed on the Priorities Substances Lis	oduct are listed on the DSL/NDSL		
15.7	State Regulatory Information:	No hazardous ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).  This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .			
15.8	Other Requirements:	NA			
		16. OTHER INFO	RMATION		
16.1	Other Information:	CAUSES SERIOUS EYE IRRITATION.  Wash thoroughly with soap and water after ha clothing/eye protection/face protection. IF IN EN Remove contact lenses, if present and easy to do KEEP OUT OF REACH OF CHILDREN.	ES: Immediately rinse cautiously	with water for several minutes.	
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 & Active B, 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. ShipMate, Inc., and Active B, LLC are not liable for any claims, losses, or damages of any third party, special, indirect, incidental, consequential, or exemplary damages from reliance on the information in this document. Be sure to consult the latest edition.			
16.4	Prepared for:	Active B, LLC 3147 California Street, NE, Suite 100-A Minneapolis, MN 55418 USA Tel: +1 (888) 997-2131 https://useactive.com	ACTIVI	R -	
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.ys.bipmate.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	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

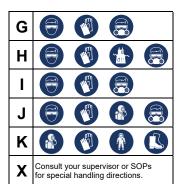
#### **HEALTH, FLAMMABILITY & REACTIVITY RATINGS:**

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



#### PERSONAL PROTECTION RATINGS:

Α		
В		
O		
D		
Ε		
F		





#### 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	REACTIVITY
2	Moderate Hazard	KEAGHVIII
3	Severe Hazard	3 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	<b>/ Y Y</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
TL <sub>m</sub>	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 (1272/2008/EC) PICTOGRAMS:

			$\Diamond$	K)		$\Leftrightarrow$	<b>***</b>	**
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful or Irritating	Health Hazard	Environ- ment