

Page 1 of 6 NN-007

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 2020/878/EU Standards SDS Revision Date: 10/9/2023 SDS Revision: 1.0 1. PRODUCT & COMPANY IDENTIFICATION 1.1 Product Name: NITRO NAIL COLOR BASE (DIPPING SOLUTION) Chemical Name: 1.2 Ethyl Cyanoacrylate Mixture 1.3 Synonyms: Nitro Nail Color Base Dipping Solution 14 Trade Names Nitro Nail Color Base Dipping Solution 1.5 Product Use: Cosmetic Use 1.6 Distributor's Name: Nitro Nail Systems 1.7 Distributor's Address: 1900 Jay Ell Drive Richardson, TX 75081 USA Emergency Phone: 1.8 +1 (855) 747-8584 1.9 Business Phone / Fax +1 (855) 747-8584 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. WARNING! COMBUSTIBLE LIQUID. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. MAY CAUSE RESPIRATORY IRRITATION. Classification: Flam. Liq. 4, Eye Irrit. 2A, Skin Sens. 2, STOT SE 3 (resp) Label Elements: Hazard Statements (H): H227 - Combustible liquid. H317 - May cause an allergic skin reaction. H319 -2.2 Causes serious eye irritation. H335 – May cause respiratory irritation. Precautionary Statements (P): P210 - Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. P261 - Avoid breathing fumes/mist/spray. P264+P265 - Wash thoroughly with soap and water after handling. Do not touch eyes. P271 – Use only outdoors or in a wellventilated area. P280 - Wear eye protection/protective gloves. P302+P352 - IF ON SKIN: Wash with plenty of soap and warm water. P305+P354+P338 – IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+P352 - IF ON SKIN: Wash with plenty of soap and warm water. P333+P317 - If skin irritation or rash occurs: Get medical help. P319 - Get medical help if you feel unwell. P321 - Specific treatment: see Section 4 of this SDS. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before returning to work. P370 - In case of fire: Use dry chemical, foam or carbon dioxide to extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 – Dispose of contents/container to a licensed treatment, storage, or disposal facility (TSDF). Other Warnings: WARNING: This product can expose you to chemicals including Sulfur Dioxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. KEEP OUT OF REACH OF CHILDREN. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC OSHA ppm maa ppm ES-ES-ES-TI V STF PFI STFI IDI H CAS No RTECS No. **EINECS No** TWA OTHER **CHEMICAL NAME(S)** STFI PFAK 7085-85-0 NA 230-391-5 60-100 0.2 NA NA NA NF NF NF ETHYL-2-CYANOACRYLATE Eye Irrit. 2A, STOT SE 3, Skin Irrit. 2; H319, H335, H315 NA 9011-14-7 TR0400000 NA 10-30 NA NF NF NF NA NA NA POLYMETHYL METHACRYLATE 68123-31-9 NA 268-549-0 ≤ 0.1 NA NA NF 2 NA 2 NA **HYDROQUINONE** Carc. 2, Muta. 2, Acute Tox. 4 (oral), Eye Dam. 1, Skin Sens. 1, Aq. Acute 1; H351, H341, H302, H318, H317, H400 4. FIRST AID MEASURES If ingested, do not induce vomiting. Contact the nearest Poison Control Center or local emergency number. 4.1 First Aid Ingestion: Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Flush lips with warm after to release lips if bonded. Ingestion is unlikely, though the product may stick in the mouth. Over a period of 1-2 days, the product will be loosened by saliva. Avoid swallowing the product. Get medical attention if symptoms occur. . Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm water Eyes: for at least 15 minutes lifting upper and lower lids, occasionally. Skin: Wash thoroughly with soap and water. In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Remove victims to fresh air at once. If breathing is difficult, administer oxygen. If breathing stops give artificial Inhalation:

respiration. Keep person warm, quiet and get medical attention.



Page 2 of 6 **NN-007** 

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 2020/878/EU Standards SDS Revision: 1.0 SDS Revision Date: 10/9/2023

		4. FIRST AID MEAS		
4.2	Effects of Exposure:	Ingestion: If product is swallowed, may cause of Eyes: Exposure to dust may cause eye irrit and watering.	pastrointestinal disturbance. ation. Symptoms of overexposure may include redness, itching,	, irritatio
			can cause allergic skin reactions (e.g., rashes, welts, dermatitis	) in som
		Inhalation: Coughing, wheezing, shortness of be and respiratory tract.	reath, impaired pulmonary function. Irritation or soreness in thro	oat, nos
4.3	Symptoms of Overexposure:	Ingestion: If product is swallowed, may cause		,
		<u>Eyes</u> : Exposure to dust may cause eye irri and watering.	itation. Symptoms of overexposure may include redness, itching.	, irritatio
		_	duct can cause allergic skin reactions (e.g., rashes, welts, dern	natitis)
			oreath, impaired pulmonary function. Irritation or soreness in thro ly, high concentrations of vapors can cause drowsiness, d	
4.4	Acute Health Effects:		d areas. Additionally, high concentrations of dust can cause cary function. Irritation or soreness in throat, nose, and respirator	
4.5	Chronic Health Effects:	Prolonged or repeated elevated exposure may casensitive individuals.	ause allergic reactions with asthma-like symptoms in	
4.6	Target Organs:	Eyes, Skin	10000	_
4.7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis and other skin conditions.		2
			FLAMMABILITY	2
			PHYSICAL HAZARDS	0
			PROTECTIVE EQUIPMENT	В
			EYES SKIN	
		5. FIREFIGHTING	MEASURES	
5.1	Fire & Explosion Hazards:	Combustible liquid and vapor. However, if invo	olved in a fire, this product may decompose at high hydrocarbons). Product polymerized to solid by water.	
5.2	Extinguishing Methods:	CO <sub>2</sub> , Dry Chemical, Alcohol Foam. Use water sp		•
		Keep containers cool until well after the fire is out. Fight fires for surrounding materials. As in any fire, wear MSHA/NIOSH approved self-contained breathing apparatus (pressure-demand) and full protective gear. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Avoid spraying water directly into storage containers because of the danger of boil-over. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies.		
		6. ACCIDENTAL RELE	ASE MEASURES	
6.1	Spills:	For small spills (e.g., < 1 gallon (3.8 L)) wear apply ventilation (open doors and windows) and secur scraped from surface and placed into appropriate	ed in spill cleanup must wear appropriate Personal Protective Eq ropriate personal protective equipment (e.g., goggles, gloves). Ne e all sources of ignition. Polymerize with water. Solid materia closed container(s) for disposal. Dispose of properly in accorda ected areas and outside of container with plenty of warm water a	Maximiz Il may b ance wit
		Remove any contaminated clothing and wash the For <u>large spills</u> (e.g., ≥ 1 gallon (3.8 L)), deny ent (e.g., sand or earth). Polymerize with water. Incr placed into containers for recovery or disposal and contaminated clothing promptly and wash affects	proughly before reuse.  The read of the reuse of the reus	t materia rface an Remov
		Remove any contaminated clothing and wash the For <u>large spills</u> (e.g., ≥ 1 gallon (3.8 L)), deny ent (e.g., sand or earth). Polymerize with water. Incr placed into containers for recovery or disposal and contaminated clothing promptly and wash affected of municipal sewers and open bodies of water.	ry to all unprotected individuals. Dike and contain spill with inert ease ventilation to area. Solid material may be scraped from sur d solid diking material to separate containers for proper disposal. ed skin areas with soap and water. Keep spills and cleaning ru	t materia rface an Remov
7.1	Work & Hygiene Practices:	Remove any contaminated clothing and wash the For large spills (e.g., ≥ 1 gallon (3.8 L)), deny ent (e.g., sand or earth). Polymerize with water. Incr placed into containers for recovery or disposal and contaminated clothing promptly and wash affects of municipal sewers and open bodies of water.  7. HANDLING & STORA  Do not eat, drink, or smoke when handling this presidues with soap and warm water. Keep tightly	ry to all unprotected individuals. Dike and contain spill with inert ease ventilation to area. Solid material may be scraped from surd solid diking material to separate containers for proper disposal. ed skin areas with soap and water. Keep spills and cleaning runce.  **GE INFORMATION**  roduct. Handle as to avoid puncturing container(s). Wash uninty closed when not in use. Avoid contact with skin and clothing.	t materia rface an Remov inoffs or
7.1	Work & Hygiene Practices:  Storage & Handling:	Remove any contaminated clothing and wash the For large spills (e.g., ≥ 1 gallon (3.8 L)), deny ent (e.g., sand or earth). Polymerize with water. Incr placed into containers for recovery or disposal and contaminated clothing promptly and wash affects of municipal sewers and open bodies of water.  7. HANDLING & STORA  Do not eat, drink, or smoke when handling this presidues with soap and warm water. Keep tightly direct contact and breathing vapor. Use with ade Use and store in a cool, dry, well-ventilated location.	ry to all unprotected individuals. Dike and contain spill with inertease ventilation to area. Solid material may be scraped from surd solid diking material to separate containers for proper disposal. ed skin areas with soap and water. Keep spills and cleaning runce.  **GE INFORMATION**  Troduct. Handle as to avoid puncturing container(s). Wash unintegrated to a service of the container of the c	t materia rface an Remov unoffs ou tentiona Avoid



Page 3 of 6 **NN-007** 

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 2020/878/EU Standards SDS Revision: 1.0 SDS Revision Date: 10/9/2023

.1	Exposure Limits:		AC	GIH		NOHSC			OSHA		OTHER
	ppm (mg/m³)	0.15.110.11.11.115.(0)			ES-	ES-	ES-				
		CHEMICAL NAME(S) ETHYL-2-CYANOACRYLATE	<b>TLV</b> 0.2	STEL 1	TWA NF	STEL NF	PEAK NF	PEL NA	STEL NA	IDLH NA	
		HYDROQUINONE	NA	NA	NF	2	NA	2	NA NA	50	
.2	Ventilation & Engineering Controls:	When working with large quantities	es of this	product	, provide	adequ	ate ventila	tion (e.	g., local		ventilation, fan
.3	Respiratory Protection:	Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.  No special respiratory protection is required under typical circumstances of use or handling. If necessary,									
.0	Transpiratery Transpirate	use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member									
		states, or Australia.	<u> </u>	<u> </u>				•			
.4	Eye Protection:	Depending on the use of this produ OSHA 29 CFR §1910.133, Canadi							ary, refe	er to U.S.	
.5	Hand Protection:	If anticipated that prolonged & reprubber gloves for routine industria	al use.	If necess	sary, refe	er to U.					
	D. J. D. J. H.	appropriate standards of Canada,									
.6	Body Protection:	No special body protection is requ refer to appropriate standards of C							ng. If n	ecessary	,
		9. PHYSICAL	& CH	EMIC.	ΔI DR	OPF	RTIFS				
.1	Appearance:	Transparent, colorless liquid	<u> </u>	,,,,,	<u> </u>	<u>VI L</u>					
.2	Odor:	Characteristic odor, intensely irrita	tina								
.3	Odor Threshold:	1 ppm	ung								
.4	pH:	NA									
5	Melting Point/Freezing Point:	-22.0 °C (- 7.6 °F)									
6	Initial Boiling Point/Boiling	>149 °C (>300 °F)									
7	Range:	,									
.7 .8	Flashpoint: Upper/Lower Flammability	83 °C (181.4 °F), TCC									
	Limits:	NA									
.9	Vapor Pressure:	NA									
10	Vapor Density:	NA									
.11	Relative Density:	1.07 g/mL @ 25 °C									
.12	Solubility:	Insoluble									
.13	Partition Coefficient (log Pow):	NA									
.14	Autoignition Temperature:	NA									
.13	Decomposition Temperature:  Viscosity:	NA									
.10	Other Information:	150 to 250 cPs @ 22 °C (72 °F) VOC: < 20.00 g/L, SCAQMD Meth	od 216D								
. 17	Other information.	T VOC. > 20.00 g/L, SCAQIND INEII	100 3 10D								
		10. STA	<b>BILIT</b>	Y & R	<b>EACT</b>	IVITY	<u> </u>				
0.1	Stability:	Stable under normal conditions; ur									
0.2	Hazardous Decomposition Products:	Thermal decomposition will product irritating compounds.	e oxides	of carbo	n and nit	rogen, t	race amou	ınts of h	ydroger	cyanide	and other toxic
0.3	Hazardous Polymerization:	Possible polymerization reaction in									
0.4	Conditions to Avoid:	Open flames, sparks, high heat, in moisture and alkalis.							-		
0.5	Incompatible Substances:	Avoid extreme heat and ignition s amines, alkaline materials.	ources.	Oxidizing	g agents,	strong	acids, stro	ong base	es. Poly	merized	by water, alcoh
		11. TOXICO	LOGI	CAL I	NFOR	RMAT	ION				
1.1	Routes of Entry:	Inhalation: YES			Absorption				ı	ngestion:	YES
1.2	Toxicity Data:	This product has NOT been teste literature, is available for the comp						owever,	toxicolo	gy data,	
		ATE (dermal) LD <sub>50</sub> : > 2000 mg/kg.				ng/kg.					
1.3	Acute Toxicity:	See Section 4.4									
1.4	Chronic Toxicity:	See Section 4.5									
1.5	Suspected Carcinogen:	This product is not reported to cau									
1.6	Reproductive Toxicity:	WARNING: This product can expo	oo vou t	a ahamia	olo inclu	dina Cul	fur Diavid	a which	ia kaass	in to the	Ctata of Californ



Page 4 of 6 **NN-007** 

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 2020/878/EU Standards SDS Revision: 1.0 SDS Revision Date: 10/9/2023

		11. TOXICOLOGICAL INFORMATION – cont'd	
	Mutagenicity:	This product is not reported to cause mutagenic effects in humans. Ethyl-2-cyanoacrylate was	
		reverse mutation assays, a mammalian chromosome aberration test and in a mouse lymphoma	est.
	Embryotoxicity: This product is not reported to cause embryotoxic effects in humans.  Toratogopicity: This product is not reported to cause embryotoxic effects in humans.		
	Teratogenicity:	This product is not reported to cause teratogenic effects in humans.	
44.7	Reproductive Toxicity:	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:  Physician Recommendations:	NA	
11.9	Physician Recommendations.	Treat symptomatically.	
		12. ECOLOGICAL INFORMATION	
12.1	Environmental Stability:	Ethyl-2-Cyanoacrylate: Aquatic toxicity studies are not technically feasible since this substance represence of water.	apidly polymerizes in the
12.2	Effects on Plants & Animals:	Bioaccumulation studies are not technically feasible since this substance rapidly polymerizes in t	he presence of water.
12.3	Effects on Aquatic Life:	This material should be prevented from contaminating soil or from entering sewage and drainage	systems and bodies of
		water.	
		13. DISPOSAL CONSIDERATIONS	
13.1	Waste Disposal:	Dispose of in accordance with federal, state, and local regulations.	
13.2	Special Considerations:	NA	
		14. TRANSPORTATION INFORMATION	
The b	pasic description (ID Number be required by 49 CFR, IATA	, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Addi VICAO, IMDG and the CTDGR.	tional descriptive informatio
14.1	49 CFR (GND):	NOT REGULATED	
14.2	IATA (AIR)*:	UN3334, AVIATION REGULATED LIQUID, N.O.S. (ethyl cyanoacrylate), 9, III (LTD QTY, IP VOL ≤ 5.0 L, OP GROSS MASS ≤ 30 kg G); or	<b>₹</b>
		ID8000, CONSUMER COMMODITY, 9 (OP GROSS MASS ≤ 30 kg G)	9
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	
		THE THE SECTION OF TH	<u> </u>
		15. REGULATORY INFORMATION	
15.1	SARA Reporting	This product does not contain any substances subject to SARA Title III, Section 313 reporting re	guirements.
15.2	Requirements: SARA TPQ:	There are no specific Threshold Planning Quantities for the components of this product.	<u>'</u>
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.	
15.4	CERCLA Reportable	NA	
15.5	Quantity: Other Federal Requirements:	This product complies with the appropriate sections of the Food and Drug Administration's	21 CFR subchapter (
45.0	011 0 11 11 11 11	(Cosmetics).	1
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the Controlled Prod Regulations (CPR) and the SDS contains all the information required by the CPR. The compon of this product are listed on the DSL/NDSL. None of the components of this product are listed or Priorities Substances List. WHMIS D2B (Other Toxic Effects).	ents 🕌
15.7	State Regulatory Information:	Poly (Methyl Methacrylate) is found on the following state criteria list(s): New Jersey Righ Pennsylvania Right-to-Know List (PA). <u>Hydroquinone</u> is found on the following state criteria list(and WA.  No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Flori	s): FL, MA, MN, NJ, PA any of the following sta
15.5		(FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI) Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances	), Minnesota Hazardou List (NY), Pennsylvan
15.8	Other Requirements:	<b>WARNING</b> : This product can expose you to chemicals including Sulfur Dioxide, which California to cause birth defects or other reproductive harm. For more information go to <a href="https://www.P65">www.P65</a>	



Page 5 of 6 **NN-007** 

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 2020/878/EU Standards

SDS Revision: 1.0

SDS Revision Date: 10/9/2023

		16. OTHER INFO	DRMATION
16.1	Other Information:	RESPIRATORY IRRITATION. TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.  Avoid breathing fumes/mist/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated clothing should not be allowed out of the workplace. Avoid release to the environment. Wear eye protecting gloves. IF ON SKIN: Wash with plenty of soap and warm water. IF IN EYES: Immediately rinse with water minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty warm water. If skin irritation or rash occurs: Get medical help. Get medical help if you feel unwell. Specific trees Section 4 of this SDS. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing before returning to work. Store in a well-ventilated place. Keep container tightly closed. Store locked up.  KEEP LOCKED UP AND OUT OF REACH OF CHILDREN.	
			to chemicals including Sulfur Dioxide, which is known to the State of tive harm. For more information go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	government regulations must be reviewed for app knowledge, the information contained herein is completeness is not guaranteed and no warrantie contained herein relates only to the specific produ	SHA's Hazard Communication Standard, 29 CFR §1910.1200. Other licability to this product. To the best of ShipMate's & Nitro Nail Systems' reliable and accurate as of this date; however, accuracy, suitability or s of any type, either expressed or implied, are provided. The information act(s). If this product(s) is combined with other materials, all component nged from time to time. Be sure to consult the latest edition.
16.4	Prepared for:	Nitro Nail Systems 1900 Jay Ell Dr. Richardson, TX 75081 USA Tel: +1 (855) 747-8584 http://www.nitronails.com	nitra
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com	ShipMate*  Dangerous Goods Training & Consulting



Page 6 of 6 NN-007

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 2020/878/EU Standards

SDS Revision: 1.0

SDS Revision Date: 10/9/2023

# **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 Nu	

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

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

#### FIRST AID MEASURES:

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

# HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

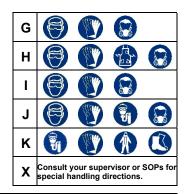
### **HEALTH, FLAMMABILITY & REACTIVITY RATINGS:**

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



# PERSONAL PROTECTION RATINGS:

Α			
В			
С			
D			
Е			
F		TT.	





### 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

FLAMMABILI	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 explode or ignite in the presence of an ignition source			

#### **HAZARD RATINGS:**

0	Minimal Hazard	FLAMMABILITY
1	Slight Hazard	. =
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	/ <b>~ ~ ~ ~</b> ~
W	Use No Water	HEALTH 🔪
ОХ	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

#### TOXICOLOGICAL INFORMATION:

LD <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals			
LC <sub>50</sub>	Lethal concentration (gases) which kills 50% of the exposed animal			
ppm	Concentration expressed in parts of material per million parts			
TD <sub>lo</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	LD <sub>Io</sub> , & LD <sub>o</sub> or Lowest dose (or concentration) to cause lethal or toxic effects			
TC, TCo, LCio, & LCo				
IARC	International Agency for Research on Cancer			
NTP	National Toxicology Program			
RTECS	Registry of Toxic Effects of Chemical Substances			
BCF	Bioconcentration Factor			
TLm	Median threshold limit			
log Kow or log Koc	Coefficient of Oil/Water Distribution			

## REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System			
DOT	U.S. Department of Transportation			
TC	Transport Canada			
EPA	U.S. Environmental Protection Agency			
DSL	Canadian Domestic Substance List			
NDSL	Canadian Non-Domestic Substance List			
PSL	Canadian Priority Substances List			
TSCA	TSCA U.S. Toxic Substance Control Act			
EU	European Union (European Union Directive 67/548/EEC)			
WGK	Wassergefährdungsklassen (German Water Hazard Class)			

# WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

	<b>(A)</b>	<b>(2)</b>	(3)	$\odot$	(4)		(R)
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

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

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