

Page 1 of 6 **NN-008**

1. PRODUCT & COMPANY IDENTIFICATION 1.1 Product Name: NITRO NAIL ACTIVATOR (DIPPING SOLUTION) 1.2 Chemical Name: Solvent Mixture 1.3 Synonyms: Nitro Nail Activator (Dipping Solution) 1.4 Trade Names: Nitro Nail Activator (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 1.8 Emergency Phone: +1 (855) 747-8584 1.9 Business Phone / Fax: +1 (855) 747-8584 2. HAZARDS IDENTIFICATION 2.1 Hazard Identification: Prepared in accordance with UN Globally Harmonized standards. Intended to com Canadian WHMIS and Australian Work Health and Safety. DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALL IRRITATION. MAY CAUSE DIZZINESS OR DROWSINESS. Classification: Flam. Liq. 2, Acute Tox. 4 (oral), Eye Irrit. 2A, STOT SE 3 Hazard Statements (H): H225 – Highly flammable liquid and vapor. H302 – Harmful if Causes serious eye irritation. H336 – may cause dizziness or drowsiness. Precautionary Statements (P): P210 – Keep away from heat/sparks/open flames// smoking. P233 - Keep container tightly closed. P240 – Ground and bond contain equipment. P242 – Use non-sparking tools. P243 - Take precautionary meast	OWED. CAUSES SERIOUS EYE
1.3 Synonyms: Nitro Nail Activator (Dipping Solution) 1.4 Trade Names: Nitro Nail Activator (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 1.8 Emergency Phone: +1 (855) 747-8584 1.9 Business Phone / Fax: +1 (855) 747-8584 2. HAZARDS IDENTIFICATION 2.1 Hazard Identification: Prepared in accordance with UN Globally Harmonized standards. Intended to com Canadian WHMIS and Australian Work Health and Safety. DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALL IRRITATION. MAY CAUSE DIZZINESS OR DROWSINESS. Classification: Flam. Liq. 2, Acute Tox. 4 (oral), Eye Irrit. 2A, STOT SE 3 Label Elements: Hazard Statements (H): H225 — Highly flammable liquid and vapor. H302 — Harmful if Causes serious eye irritation. H336 — may cause dizziness or drowsiness. Precautionary Statements (P): P210 — Keep away from heat/sparks/open flames/l smoking. P233 - Keep container tightly closed. P240 — Ground and bond contain	OWED. CAUSES SERIOUS EYE
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Precautionary Statements (P): P210 – Keep away from heat/sparks/open flames/l smoking. P233 - Keep container tightly closed. P240 – Ground and bond contain	
discharge. P264+P265 – Wash thoroughly with soap and water after handling. Do not a Wear protective gloves/protective clothing/eye protection/face protection. P303+P3 SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected ar shower). P305+P351+P338 – IF IN EYES: Rinse continuously with water for several contact lenses if present and easy to do – continue rinsing. P333+P317 – If skin irritati – Get medical help. P321 – For specific first aid treatment (see section 4 of this SP370+P378 – In case of fire: use water fog, CO ₂ , Halon (if permitted), dry chemical, or P403+P235 – Store in a well-ventilated place. Keep cool. P501 – Dispose of cont licensed treatment, storage, or disposal facility (TSDF).	ners and receiving ures against static touch eyes. P280 361+P353 – IF ON eas with water (or I minutes. Remove on or a rash occurs afety Data Sheet). foam to extinguish.
2.3 Other Warnings: KEEP OUT OF REACH OF CHILDREN.	
3. COMPOSITION & INGREDIENT INFORMATION	
	MITS IN AIR (mg/m³)
ACGIH NOHSC ppm ppm	OSHA ppm
ES- ES-	
CHEMICAL NAME(S) CAS No. RTECS No. EINECS No. % TLV STEL TWA STEL PEAK	PEL STEL IDLH OTHER
TIDY ACETATE 141-78-6 AH5425000 205-500-4 85-100 400 400 200 400 NF	NA NA 2000 400 TWA
ETHYL ACETATE Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; H225, H319, H336	
PENTANONE 107-87-9 SA7875000 203-528-1 ≤ 1.0 200 250 (200) 705 NF	200 NA 1500
Flam. Liq. 2, Acute Tox. 4 (oral), Eye Irrit. 2, STOT SE 3; H225, H332, H319, H335	100 NA 500
METHYL ISOBUTYL KETONE 108-10-1 SA9275000 203-550-1 ≤ 1.0 50 75 (50) 205 NF	100 NA 500
Flam. Liq. 2, Acute Tox. 4 (oral), Eye Irrit. 2, STOT SE 3; H225, H332, H319, H335 99-97-8	NA NA NA
DIMETHYLTOLYLAMINE Acute Tox. 3, STOT-SE 2, Aq. Chronic 3; H301, H311, H331, H373, H412	-
4. FIRST AID MEASURES	
4.1 First Aid: Ingestion: DO NOT INDUCE VOMITING. Contact the nearest Poison Control C number for assistance and instructions. Seek immediate medic spontaneously, keep victim's head lowered (forward) to reduce the risk	cal attention. If vomiting occurs of aspiration.
Eyes: If product gets in the eyes, flush eyes thoroughly with copious amour holding eyelid(s) open to ensure complete flushing. If irritation persists,	
	nd water. If irritation persists, seek
Skin: Remove contaminated clothing and wash affected areas with soap an prompt medical attention. Do not wear contaminated clothing until after	
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Skin: Remove contaminated clothing and wash affected areas with soap at prompt medical attention. Do not wear contaminated clothing until after	
Skin: Remove contaminated clothing and wash affected areas with soap at prompt medical attention. Do not wear contaminated clothing until after Inhalation: Remove victims to fresh air at once. 4.2 Effects of Exposure: Ingestion: Ingestion: Eyes: Symptoms of overexposure may include redness, itching, irritation and the soap at prompt medical attention. Do not wear contaminated clothing and wash affected areas with soap at prompt medical attention. Do not wear contaminated clothing and wash affected areas with soap at prompt medical attention. Do not wear contaminated clothing and wash affected areas with soap at prompt medical attention. Do not wear contaminated clothing until after a supplied to the soap at prompt medical attention. Do not wear contaminated clothing until after a supplied to the soap at prompt medical attention. Do not wear contaminated clothing until after a supplied to the supplied	watering.
Skin: Remove contaminated clothing and wash affected areas with soap at prompt medical attention. Do not wear contaminated clothing until after Inhalation: Remove victims to fresh air at once. Ingestion: If product is swallowed, may cause nausea, vomiting and/or diarrhea. Symptoms of overexposure may include redness, itching, irritation and Skin: May be irritating to skin in some sensitive individuals.	watering.
Skin: Remove contaminated clothing and wash affected areas with soap at prompt medical attention. Do not wear contaminated clothing until after Inhalation: Remove victims to fresh air at once. 4.2 Effects of Exposure: Ingestion: If product is swallowed, may cause nausea, vomiting and/or diarrhea. Symptoms of overexposure may include redness, itching, irritation and	watering.



Page 2 of 6 NN-008

		4. FIRST AID MEASURES – o						
4.3	Symptoms of Overexposure:	Symptoms of skin overexposure in individuals may include redness, itching, and irritation of affected areas. Overexposin the eyes may cause redness, itching and watering. Irritation of the nose and throat, skin irritation, signs of new system depression (e.g., drowsiness, dizziness, loss of coordination and/or fatigue).				verexposur s of nervou		
4.4	Acute Health Effects:	Mild to moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can drowsiness, dizziness, headaches, and nausea.				s can caus		
4.5	Chronic Health Effects:	None known.						
4.6	Target Organs:	Eyes, Skin						
4.7	Medical Conditions Aggravated by Exposure:	None reported by the manufacturer.	HEALTH	1		1		
	riggravated by Exposure.		FLAMM	ABILITY		3		
			PHYSIC	AL HAZAR	RDS	0		
			PROTE	CTIVE EQU	JIPMENT	В		
			EYES	SKIN				
			\					
5.1	Fire & Explosion Hazards:	5. FIREFIGHTING MEASUR						
		DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR! Keep away from heat, lit cigarettes, sparks & open flame. Keep container closed. This product is a Class IB flammable liquid. When involved in a fire, this product will ignite readily and decompose to produce carbon oxides. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container. Fine mist or sprays may be flammable at temperatures below the flashpoint. 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: Firefighting Procedures:	Water Fog, CO ₂ , Halon (if permitted), Dry Chemical, Foam This product is a Class IB flammable liquid. When involved in				0		
		source of ignition and flash back to a leaking or open container. First responders should wear eye protection. Structural firefight equipment. Use water spray or fog to reduce or direct vapors. Wa fire involving this product.	/ater may not be e					
<u> </u>	I o "	6. ACCIDENTAL RELEASE MEA						
6.1	Spills:	Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Economic For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate personal protective equipment (e.g., goggles, gloves). It ventilation (open doors and windows) and secure all sources of ignition. Remove spilled material with absorbent and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state an regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remover contaminated clothing and wash thoroughly before reuse. For large spills (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected individuals. Dike and contain spill with inertice. G.g., sand or earth). Use ONLY non-sparking tools for recovery and cleanup. Transfer liquid to containers for or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of municipal sewers a bodies of water.				n). Maximize the material and federal and		
		7 LIANDLING 9 STODAGE INFO	DMATION					
		7. HANDLING & STORAGE INFO	RIVIA I IUN	Avoid prolonged contact with the product. Avoid breathing vapors from this product. Use in a well-ventilated location (e.g local exhaust ventilation, fans). After use, wash hands and exposed skin with soap and water. Do not eat, drink or smol				
7.1	Work & Hygiene Practices:	Avoid prolonged contact with the product. Avoid breathing vapor	s from this produc					
7.1	Work & Hygiene Practices: Storage & Handling:	Avoid prolonged contact with the product. Avoid breathing vapor local exhaust ventilation, fans). After use, wash hands and expo	s from this productions of sed skin with soal en containers slow sidual amounts of sociation, away from	p and water. wly on a stab this product; n direct sunl	Do not eat, dri ble surface. Ke therefore, empt	nk or smoke ep containe y containe		



Page 3 of 6 **NN-008**

3.1	Exposure Limits:		AC	GIH		NOHSC			OSHA		OTHER
	ppm (mg/m³)	0.115.110.11.11.115.(0)				ES-	ES-	551			
		BUTYL ACETATE	TLV 150	200	150	200	PEAK NF	PEL 200	200	1700	150 TWA
		PENTANONE	200	250	(200)	705	NF	200	NA	1500	130 TWA
		METHYL ISOBUTYL KETONE	50	75	(50)	205	NF	100	NA NA	500	
3.2	Ventilation & Engineering Controls:	When working with large quantities that an eyewash station, sink, or w	of produ	icts, prov	ide adequ	ate ventil	ation (e.g.	, local ex			, fans). Ensi
3.3	Respiratory Protection:	No special respiratory protection is use only respiratory protection a applicable U.S. state regulations, states. or Australia.	required	under ty d per U.	pical circui	mstances require	s of use or ement in	handling 29 CFR	§1910.1	34, or	
3.4	Eye Protection:		epending on the use of this product, splash or safety glasses may be worn. If necessary, refer to U.S. SHA 29 CFR §1910.133, Canadian standards, or the European Standard EN166.								
3.5	Hand Protection:	If anticipated that prolonged & reprubber gloves for routine industri	f anticipated that prolonged & repeated skin contact will occur during use of this product, wear latex or ubber gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the E.C. member states.								
8.6	Body Protection:	No special body protection is requ refer to appropriate standards of C	uired und	er typica	l circumst				If nece	ssary,	
		9. PHYSICAL	& CHI	FMIC	AI PRO)PFR	TIFS				
9.1	Appearance:	Clear to pale yellow liquid	<u> </u>	_11110/	<u>'- 1 1//</u>	<i>></i> :	0				
9.2	Odor:	Ester (Fruity) Odor									
9.3	Odor Threshold:	NA									
.4	pH:										
	'	NA									
.5	Melting Point/Freezing Point:	NA									
.6	Initial Boiling Point/Boiling Range:	77 °C (170 °F) to 78 °C (172 °F)									
.7	Flashpoint:	1.11 °C (30 °F), TCC									
.8	Upper/Lower Flammability Limits:	2.0 (LEL) // 11.4 (UEL)									
9.9	Vapor Pressure:	73 mmHg at 20°C (68°F)									
9.10	Vapor Density:	NA									
9.11	Relative Density:	0.9 (water = 1.0)									
.12	Solubility:	Slightly soluble									
9.13	Partition Coefficient (log Pow):	NA									
9.14	Autoignition Temperature:	NA									
9.15	Decomposition Temperature:	NA									
9.16	Viscosity:	< 5 cPs									
9.17	Other Information:	9 g/L									
7.17	Other information.	9 g/L									
		10. STA	BILIT	Y & R	EACTI	VITY					
10.1	Stability:	Stable under ambient conditions w	hen store	ed prope	rly (See Se	ection 7,	Storage a	nd Handli	ng)		
10.2	Hazardous Decomposition Products:	If exposed to extremely high temper oxide gases (e.g. CO, CO ₂).								tion vap	ors and carb
10.3	Hazardous Polymerization:	May occur if exposed to extremely	high tem	perature	S.						
10.4	Conditions to Avoid:										
10.5	Incompatible Substances:	High temperatures and incompatible substances. Strong oxidizers (e.g., peroxides, superoxides), strong acids (e.g., hydrochloric or muriatic acids), or strong bases (e.g., potassium hydroxide).									
		11. TOXICO	ו טפו	CVII	NEODI	MATIC) N		·		
1.1	Routes of Entry:	Inhalation: YES	LUGI	CAL I	Absorption:		714		Ingest	ion: NO	<u> </u>
	-	120		l - 4 l - 4			Th	4! !			
11.2	Toxicity Data:	This product has not been tested of the product, which are found in sci Ethyl Acetate: LD ₅₀ (oral, rat) = 5 (oral, rat) = 2,080 mg/kg; Dimethyl	entific lite ,620 mg/	erature. [·] kg; <u>Pent</u>	Γhis data is anone: LΓ	s present 0 ₅₀ (oral,	ted below: rat) = 1,6		•		·
1.3	Acute Toxicity:	See Section 4.4									
1.4	Chronic Toxicity:	See Section 4.5									
		See Section 4.5 This product is not reported to cause carcinogenic effects in humans.									



Page 4 of 6 NN-008

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 2020/878/EU Standards SDS Revision Date: 10/9/2023 SDS Revision: 1.0 11. TOXICOLOGICAL INFORMATION - cont'd 116 Reproductive Toxicity: This product is not reported to cause reproductive toxicity in humans Mutagenicity: This product is not reported to cause mutagenic effects in humans. Embryotoxicity: This product is not reported to cause 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. 11.7 Irritancy of Product: See section 4.2 11.8 Biological Exposure Indices: NA 11.9 Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION Environmental Stability: 12.1 The components of this product will slowly degrade over time into a variety of organic compounds. Specific environmental data available for the components of this product are as follows: Ethyl Acetate: Koc = 0.73. Water solubility: 64,000 mg/L. Bioconcentration Factor = 4-14. Bioconcentration is not anticipated to be significant. This compound can be removed from contaminated environments from volatilization, and biodegradation. This compound's half-life in water is 6.1 hours. Aquatic Toxicity Estimates: LC50 (Golden orfe, 96h): > 220 mg/L; EC₅₀ (Daphnia magna, 48h): > 500 mg/L; EC₅₀ (algae, 96h): > 360 mg/L 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; however, very large releases of this product may be harmful or fatal to overexposed aquatic life. 13. DISPOSAL CONSIDERATIONS 13.1 Waste Disposal: Dispose of in accordance with federal, state, and local regulations. U.S. EPA Waste Number: D001 (characteristic - ignitable) Special Considerations: 13.2 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. 49 CFR (GND): UN1173, ETHYL ACETATE, 3, II, (LTD QTY, IP ≤ 1.0 L) 14.2 IATA (AIR)*: ID8000, CONSUMER COMMODITY, 9 (IP VOL ≤ 0.5 L); or ЛЪ UN1173, ETHYL ACETATE, 3, II, (LTD QTY, IP ≤ 1.0 L) IMDG (OCN): 14.3 UN1173, ETHYL ACETATE, 3, II, (LTD QTY, IP ≤ 1.0 L) TDGR (Canadian GND): 14.4 UN1173, ETHYL ACETATE, 3, II, (LTD QTY, IP ≤ 1.0 L) ADR/RID (EU): 14.5 UN1173, ETHYL ACETATE, 3, II, (LTD QTY, IP ≤ 1.0 L) SCT (MEXICO): 14.6 UN1173, ETHIL ACETATO, 3, II, (CANT LTDA, IP ≤ 1.0 L) ADGR (AUS): 14.7 UN1173, ETHYL ACETATE, 3, II, (LTD QTY, IP ≤ 1.0 L) OTHER: 14.8 This product may also be shipped as an Excepted Quantity (Inner Package Volume ≤ 30 mL, Total Quantity ≤ 500 mL per Outer Package) 15. REGULATORY INFORMATION SARA Reporting SARA 304 (40 CFR Table 302.4) - Ethyl Acetate. This product does not contain any substances subject to SARA Title III 15.1 Requirements (313) reporting and 40 CFR part 373. SARA TPQ: 15.2 There are no specific Threshold Planning Quantities for the components of this product. TSCA Inventory Status: 15.3 The components of this product are listed on the TSCA Inventory. CERCLA Reportable Quantity: 15.4 Ethyl Acetate: 2,270 kg (5,000 lbs); Methyl Isobutyl Ketone: 2,270 kg (5,000 lbs) This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G Other Federal Requirements: 15.5 (Cosmetics). Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the SDS contains all 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 B2, D2B (Flammable Liquid, Other Toxic Effects).



Page 5 of 6 NN-008

		15 RECIII ATORVIA	IFORMATION – cont'd				
15.7	State Regulatory Information:		e criteria list(s): CA, DE, MA, MN, NJ, NY, PA, WA, and WI.				
		Pentanone is found on the following state c					
		Methyl Isobutyl Ketone is found on the follo	wing state criteria list(s): FL, MA, MN, NJ, PA, WA, and WI.				
		Dimethyltolylamine is found on the following	g state criteria list(s): NJ, and PA.				
			t in a concentration of 1.0% or greater, are listed on any of the following state				
			5), Delaware Air Quality Management List (DE), Florida Toxic Substances Lis				
			es List (MA), Michigan Critical Substances List (MI), Minnesota Hazardou				
			p-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania				
			ssible Exposures List (WA), Wisconsin Hazardous Substances List (WI).				
		For more information go to www.P65Warnin	s known to the State of California to cause cancer or other reproductive harm				
15.8	Other Requirements:		ntory lists: Australia - AICS, China – IECSC, Europe – ELINCS/EINEC, Japan				
	·	– ENCS; Korea – KECI; New Zealand – NZ					
		, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,				
		16. OTHER I	NFORMATION				
16.1	Other Information:	DANGER! HIGHLY FLAMMABLE LIQUID IRRITATION. MAY CAUSE DIZZINESS OF	D AND VAPOR. HARMFUL IF SWALLOWED. CAUSES SERIOUS EYER DROWSINESS.				
		Keep away from heat/sparks/open flames/hot surfaces – No smoking. Keep container tightly closed. Ground and both					
		containers and receiving equipment. Use non-sparking tools. Take precautionary measures against static discharge.					
		Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Take off immediately all					
		contaminated clothing. Rinse affected areas with water (or shower). IF IN EYES: Rinse continuously with water for several					
		minutes. Remove contact lenses if present and easy to do – continue rinsing. If skin irritation or a rash occurs - 6 medical advice/attention. For specific first aid treatment (see section 4 of this Safety Data Sheet). In case of fire: u					
		medical advice/attention. For specific first aid treatment (see section 4 of this Safety Data Sheet). In case of fire: use water fog, CO ₂ , Halon (if permitted), dry chemical, or foam to extinguish. Store in a well-ventilated place. Keep cool.					
		KEEP OUT OF REACH OF CHILDREN.	mical, or loan to extinguish. Otore in a well-ventilated place. Reep cool.				
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.					
16.3	Disclaimer:	, ,	to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other				
			or applicability to this product. To the best of ShipMate's & Nitro Nail Systems				
		knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability					
			anties of any type, either expressed or implied, are provided. The information				
			product(s). If this product(s) is combined with other materials, all componen				
10.1	D 16		e changed 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	nitro				
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16.5	Prepared by:	ShipMate, Inc.					
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		Fax: +1 (310) 370-5700 http://www.shipmate.com	Training & Consulting				



Page 6 of 6 NN-008

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 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 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

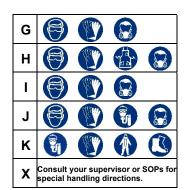
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α		
В		
С		
D		
Е		
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	\
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	─ / ₹ ₩ >
₩	Use No Water	HEALTH 🔪
ОХ	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

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 _{Io} , LD _{Io} , & LD _o or	lo, & LDo 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	A 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:

	(A)	(2)	(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