

Page 1 of 7 SAFETY DATA SHEET NN-003 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 ACRYLIC & DIPPING POWDER Chemical Name: 1.2 13 Synonyms: Nitro Nail Acrylic & Dipping Powder 14 Trade Names Nitro Nail Acrylic & Dipping Powder, KRP Powder, Neon Collection, Cover Rose 1.5 Product 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 comply with OSHA 29 CFR 1910.1200. Canadian WHMIS and Australian Work Health and Safety. WARNING! COMBUSTIBLE DUST. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION. SUSPECTED OF CAUSING CANCER. Classification: Comb Dust. Skin Sens. 1. Carc. 2 Label Elements: Hazard Statements (H): May form combustible dust concentrations in air. H317 - May cause an allergic skin reaction. H319 – Causes serious eye irritation. H335 – May cause respiratory irritation. Precautionary Statements (P): P203 - Obtain, read, and follow all safety instructions before use. P210 - Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. P234 - Keep only in original packaging. P235 - Keep cool. P240 - Ground and bond container and receiving equipment. P261 – Avoid breathing dusts. P264+P265 – Wash thoroughly with soap and water after handling. Do not touch eyes. P280 - Wear protective gloves/protective clothing/ eye protection/ face protection. P280 - Wear protective gloves. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P333+P317 - If skin irritation or rash occurs: Get medical help. P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 - Call a POISON CENTER/doctor if you feel unwell. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P321 - Specific treatment. See this container label or Section 4 of this SDS. P362+P364 -Take off contaminated clothing and wash before reuse. P370+P380+P378 - In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use Carbon Dioxide, Dry Chemical, Water Spray to extinguish fire. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up. P501 - Dispose of contents/container through licensed treatment, storage or disposal facility (TSDF) Other Warnings: WARNING: This product can expose you to chemicals including <u>Titanium Dioxide</u>, which is known to the State of California to cause cancer. 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 ppm ppm ppm ES-ES-ES-CHEMICAL NAME(S) CAS No. RTECS No. EINECS No. TLV STEL PEL IDLH OTHER 94-36-0 NA NA NF 5 NA NA NA 1500 NA DM8575000 202-327-6 ≤ 3.0 DIBENZOYL PEROXIDE Org. Perox. B, Eye Irrit. 2A, Skin Sens. 1; H241, H319, H317 13463-67-7 XR2275000 236-675-5 0.3-3.0 (10) NA NF NF NF (5) NA 5000 RESP DUST TITANIUM DIOXIDE Carc. 2; H351 (inh) 4. FIRST AID MEASURES First Aid: 4.1 If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk Ingestion: 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. Eyes: If product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. Open and close eyelid(s) to ensure thorough irrigation. If irritation persists, seek immediate medical attention. If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough Skin: washing of the affected area with soap and water. Remove contaminated clothing and wash thoroughly before reuse. If irritation, redness or swelling persists, contact a physician immediately. Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

48 hours.

Loosen tight clothing such as a collar, tie, belt, or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for



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		4. FIRST AID MEASURES – cont					
4.2	Effects of Exposure:	Ingestion: If product is swallowed, may cause gastrointestinal disturb					
		Expes: Exposure to dust may cause eye irritation. Symptoms of cand watering.	overexposure may include redness, itching,	, irritatior			
		Skin: May be irritating to skin. The product can cause allergic sk sensitive individuals.	in reactions (e.g., rashes, welts, dermatitis)	) in som			
		Inhalation: Coughing, wheezing, shortness of breath, impaired pulmo and respiratory tract.	onary function. Irritation or soreness in thro	oat, nos			
4.3	Symptoms of Overexposure:	Ingestion: May cause irritation in mouth and throat. May cause naus	ea vomiting and diarrhea				
		Eyes: May cause irritation, redness, stinging and tearing.	oa, vormang and diarmod.				
		Skin: May cause irritation, redness at the site of contact. Aller repeated contact.	gic contact dermatitis is possible with prolo	onged c			
		Inhalation: Prolonged exposure may cause irritation in nose and the breathing. Excessive inhalation of dust may result in sensi asthma-like symptoms in some sensitive individuals.					
4.4	Acute Health Effects:	Moderate irritation to eyes and skin near affected areas. Additionally, dizziness, headaches, and nausea. May cause an allergic skin reaction		wsiness			
4.5	Chronic Health Effects:	Repeated or prolonged inhalation of dust may lead to chronic respi		e allerni			
		reaction may occur when subsequently exposed to very low levels.	actory initiation. Onlo solicitized, a severe	- unorgi			
4.6	Target Organs:	Eyes, Skin, Respiratory System.					
4.7	Medical Conditions	Pre-existing dermatitis, other skin conditions, and disorders of the	HEALTH	1			
	Aggravated by Exposure:	target organs (eyes, skin, and respiratory system). Preclude from exposure those individuals that are susceptible to dermatitis, asthma,	FLAMMABILITY	1			
		or bronchitis. In case of inhalation of decomposition products in a fire,	PHYSICAL HAZARDS	1			
		symptoms may be delayed. The exposed person may need to be kept	PROTECTIVE EQUIPMENT	В			
		under medical surveillance for 48 hours.	EYES SKIN				
		5. FIREFIGHTING MEASURES					
5.1	Fire & Explosion Hazards:	Keep away from excessive heat, open flames, sparks, and othe Decomposition products may include the following materials: carbon di		_			
		oxides, sulfur oxides, halogenated compounds, metal oxide/oxides					
5.2	Extinguishing Methods:	Carbon Dioxide, Dry Chemical, Water Spray.		1			
5.3	Firefighting Procedures:	Keep containers cool until well after the fire is out. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters should wear full face, self-contained breathing apparatus (MSHA/NIOSH approved or the equivalent) and impervious protective clothing.					
		6. ACCIDENTAL RELEASE MEASU	RES				
6.1	Spills:	Before cleaning any spill or leak, individuals involved in spill cleanup mu	st wear appropriate Personal Protective Eq	uipment			
		For <u>small spills</u> (e.g., < 1 gallon (3.8 L)) wear appropriate personal prot ventilation (open doors and windows). Remove spilled material with al container(s) for disposal. Dispose of properly in accordance with loca areas and outside of container with plenty of warm water and soat thoroughly before reuse.	bsorbent material and place into appropriat II, state, and federal regulations. Wash all	te closed I affected			
		For <u>large spills</u> (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotector recovery or disposal and solid diking material to separate containers for promptly and wash affected skin areas with soap and water. Avoid disposil, waterways, drains and sewers. Inform the relevant authorities (sewers, waterways, soil or air).	or proper disposal. Remove contaminated persal of spilled material and runoff and cor	d clothing ntact with			
		7. HANDLING & STORAGE INFORMA	ATION				
7.1	Work & Hygiene Practices:	Put on appropriate personal protective equipment (see Section 8). Personal not be employed in any process in which this product is used. use. Do not handle until all safety precautions have been read and un	Avoid exposure - obtain special instruction	ns before			



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		7. HANDLING & ST	ORA	GE IN	FORN	/ATIC	)N – c	ont'd			
7.2	Storage & Handling:  Special Precautions:  Exposure Limits: ppm (mg/m³)	Electrical equipment and lighting s sparks, or other ignition sources. T dissipate static electricity during the Empty containers retain product red Do not store above the following segregated and approved area. S area, away from incompatible mate Separate from oxidizing materials opened must be carefully reseal appropriate containment to avoid of Spilled material may present a slip.  8. EXPOSURE CONT	should be ake precansfer by esidue argetone in or erials (see and ken and ken and ken argetone by the source are argued argetone by the source argetone by the source argument are arrested by the source are ar	protecte autionary groundin d can be ature: 30 iginal cor e Section ntainer tig cept uprig ental con ard if left  STEL	d to appr measuring and both hazardor of the control of the contro	ropriate es again onding cous. Do r F). Storrotected food and event le on. ded. Cle  NAL F  NOHSC  ES- STEL	standards st electros portainers a not reuse o e in acco from direc I drink. Sto sealed uni akage. D an all spil	to previous table to previous tatic distance equipment of the contained of	ent dust scharges ipment ber. with loc that in a ded up. El for use. store in ptly.	E. To avoid pefore tran cal regular ry, cool ar iminate all Container unlabeled	fire or explosion sferring material tions. Store in a nd well-ventilated ignition sources as that have been
		DIBENZOYL PEROXIDE TITANIUM DIOXIDE	(10)	NA NA	NF NF	5 NF	NA NF	(5)	NA NA	1500 5000	RESP DUST
8.2	Ventilation & Engineering	When working with large quantities									
	Controls:	that an eyewash station, sink or wa							. oznaus	. vormano	, idiioj. Liiouit
8.3	Respiratory Protection:	No special respiratory protection is required under typical circumstances of use or handling. Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. 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.									
8.4	Eye Protection:	Avoid eye contact. Use approved sand approved under appropriate g								tested	
8.5	Hand Protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.									
8.6	Body Protection:	No special body protection is requ refer to appropriate standards of C equipment for the body should be should be approved by a specialis	uired und Canada, t selected l	er typical he E.C. r pased on	circums nember the task	stances of states, of being pe	r U.S. OS	HA. Pe	ersonal p	orotective	
		0 DUVEICAL	<u> </u>	EMIC	VI DE	ODE	DTIES				
9.1	Annogrange	9. PHYSICAL	а Сп		AL PR	OPE	KIIES				
9.1	Appearance: Odor:	Powder. Various colors.  Mild acrylic odor, in bulk									
9.3	Odor Threshold:	NA									
9.4	pH:	NA									
9.5	Melting Point/Freezing Point:	NA									
9.6	Initial Boiling Point/Boiling Range:	NA									
9.7	Flashpoint:	304°C (579.2°F), TCC									
9.8	Upper/Lower Flammability Limits:	NA									
9.9	Vapor Pressure:	NA									
9.10	Vapor Density:	NA									
9.11	Relative Density:	NA									
9.12	Solubility:	Insoluble in the following materials	: cold wa	ter and h	ot water.						
9.13	Partition Coefficient (log Pow):	3.2									
9.14	Autoignition Temperature:	NA									
9.15	Decomposition Temperature:	NA									
00		I									
9.16	Viscosity: Other Information:	NA NA									



ADGR (AUS):

**NOT REGULATED** 

14.7

### SAFETY DATA SHEET

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NN-003 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 2020/878/EU Standards SDS Revision Date: 10/9/2023 SDS Revision: 1.0 10. STABILITY & REACTIVITY Stability: 10 1 Stable under normal conditions; unstable with heat or contamination. Hazardous Decomposition 10.2 Thermal decomposition will produce oxides of carbon and nitrogen, trace amounts of hydrogen cyanide and other toxic or Products: irritating compounds. Hazardous Polymerization: 10.3 Possible polymerization reaction in the presence of water, amines, alkalis, and alcohols. 10.4 Conditions to Avoid: Open flames, sparks, high heat, incompatible substances, and direct sunlight. Avoid temperatures above 176° F (80° C), moisture and alkalis. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation. Incompatible Substances Avoid extreme heat and ignition sources. Oxidizing agents, strong acids, strong bases. TOXICOLOGICAL INFORMATION Absorption: YES Routes of Entry: YES 11.2 Toxicity Data: This product has NOT been tested on animals to obtain toxicology data. However, toxicology data, found in scientific literature, is available for the components of the product. Dibenzoyl Peroxide: LD<sub>50</sub> (oral, rat): 6,400 mg /kg 113 Acute Toxicity: See Section 4.4 11.4 Chronic Toxicity See Section 4.5 11.5 Suspected Carcinogen: WARNING: This product can expose you to chemicals including Titanium Dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov. Dibenzoyl Peroxide is listed on the IARC 3 List (Not classifiable as to carcinogenicity in humans) Reproductive Toxicity: This product is not reported to cause reproductive effects 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 Irritancy of Product: 11.7 See section 4.2 Biological Exposure Indices: 11.8 NA Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: Dibenzoyl Peroxide: Acute LC<sub>50</sub> > 1 g/L (Fundulus heteroclitus, 96h); EC<sub>50</sub>: 0.83 mg/L (Algae, 96h); EC<sub>50</sub>: 0.07 mg/L (Daphnia magna, 48h) Effects on Plants & Animals: 12.2 Biodegradability: Dibenzoyl Peroxide: 60% 28d 123 Effects on Aquatic Life: This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of 13. DISPOSAL CONSIDERATIONS 13.1 Waste Disposal: Dispose of in accordance with federal, state, and local regulations 13.2 Special Considerations: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers 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): 14 1 **NOT REGULATED** 14.2 IATA (AIR)\*: **NOT REGULATED** IMDG (OCN): 14 3 **NOT REGULATED** TDGR (Canadian GND): 14.4 **NOT REGULATED** 14.5 ADR/RID (EU): NOT REGULATED 14 6 SCT (MEXICO): NOT REGULATED



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		15. REGULATORY INFORMATION					
15.1	SARA Reporting Requirements:	This product does not contain any substances subject to SARA Title III, Section 313 reporting requirements.					
15.2	SARA TPQ:	There are no specific Threshold Planning Quantities for the components of this product.					
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 product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics).					
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all 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 D2B (Other Toxic Effects).					
15.7	State Regulatory Information:	Priorities Substances List. WHMIS D2B (Other Toxic Effects).  Poly(Methylmethacrylate) is found on the following state criteria list(s): New Jersey Right-to-Know List (NJ) and Pennsylvania Right-to-Know List (PA).  Butyl Acetate is found on the following state criteria list(s): CA, DE, FL, MA, MN, NJ, PA, and WA.  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 (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).					
15.8	Other Requirements:	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.					
		Commonta to cause shart across or early reproductive harms. For more information go to mineral states of early reproductive harms.					
		16. OTHER INFORMATION					
16.1	Other Information:	WARNING! MAY FORM COMBUSTIBLE DUST CONCENTRATIONS IN AIR. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE RESPIRATORY IRRITATION.  Obtain, read, and follow all safety instructions before use. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Keep only in original packaging. Keep cool. Ground and bond container and receiving equipment. Avoid breathing dusts. Wash thoroughly after handling. Wear protective gloves/protective clothing/ eye protection/ face protection. Wear protective gloves. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Specific treatment. See this container label or Section 4 of this SDS. Take off contaminated clothing and wash before reuse. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use Carbon Dioxide, Dry Chemical, Water Spray to extinguish fire. Store in a well-ventilated place. Keep container tightly closed. Store locked up.  KEEP LOCKED UP AND OUT OF REACH OF CHILDREN.  WARNING: This product can expose you to chemicals including Titanium Dioxide, which is known to the State of California to cause cancer. 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:	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 & Nitro Nail Systems' 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.					
16.4	Prepared for:	Nitro Nail Systems 1900 Jay Ell Dr. Richardson, TX 75081 USA Tel: +1 (855) 747-8584 http://www.nitronails.com					
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					



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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 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

FLAMMABILI	FLAMMABILITY LIMITS IN AIR:					
Autoignition   Minimum temperature required to initiate combustion in air with no other sou   Temperature   of ignition						
LEL Lower Explosive Limit - lowest percent of vapor in air, by volume, the 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	/ <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>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	
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	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:

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