HARBOR FREIGHT TOOLS

Product Name:

Chemical Name:

Synonyms

Trade Names

Distributor's Name:

Emergency Phone:

Distributor's Address:

Business Phone / Fax:

Product Uses & Restrictions:

12

1.3

1.4

1.5

1.6

1.7

1.8

1.9

SAFETY DATA SHEET

Page 1 of 6 HFT-61475

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

Harbor Freight Tools USA, Inc.

+1 (805) 388-1000

26541 Agoura Road, Calabasas, CA 91302 USA

SDS Revision: 1.0

SDS Revision Date: 12/24/2015

1. PRODUCT & COMPANY IDENTIFICATION							
WD-40 [™] SPECIALIST PENETRANT							
Mixture							
P/N 61475							
WD-40 [™] Specialist Penetrant							
Lubricant, penetrant, drives out moisture and protects surfaces from corrosion.							

2. HAZARDS IDENTIFICATION

CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 676687)

2.1 Hazard Identification: This product is classified as a hazardous substance and as dangerous goods according to the classification criteria of [NOHSC: 1088 (2004)] and ADG Code (Australia).

> DANGER! EXTREMELY FLAMMABLE AEROSOL. PRESSURIZED CONTAINER MAY BURST IF HEATED. MAY BE HARMFUL IF SWALLOWED AND ENTERS AIRWAYS. CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE IRRITATION.

Classification: Aerosol 1; Acute Tox. 4; Asp. Tox. 1; Skin Irrit. 2; Eye Irrit. 2.

Hazard Statements (H): H222 - Extremely flammable aerosol. H229 - Pressurized container may burst if heated. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H319 - Causes serious eye irritation.

Precautionary Statements (P): P210 - Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking. P211 - Do not spray on an open flame or other ignition source. P251 - Do not pierce or burn, even after use. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °F (122 °F). P264 – Wash thoroughly with soap and water after handling. P270 - Do not eat, drink or smoke when using this product. P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P330 - Rinse mouth. P501 -Dispose of contents/container to licenses treatment, storage and disposal facility (TSDF). P280 -Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P321 - Specific treatment - see Section 4 of this Safety Data Sheet. P332+P313 - If skin irritation occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 – If eye irritation persists: get medical advice/attention.



3. COMPOSITION & INGREDIENT INFORMATION

					EX			EXPOSURE LIMITS IN AIR (mg/m³)					
					AC	GIH		NOHSC			OSHA		
					pp	m		ppm			ppm		
							ES-	ES-	ES-				
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	TWA	STEL	PEAK	PEL	STEL	IDLH	OTHER
PETROLEUM SOLVENT	64742-47-8	OA5504000	265-149-8	15-40	(5)	NA	NF	NF	NF	(5)	NA	NA	MIST
FETROLLOW SOLVENT	Asp. Tox.1; Skin Sens. 1B; Eye Irrit. 2B; Acute Aq. Tox. 3; H305, H317, H320, H402												
LVP ALIPHATIC HYDROCARBON	64742-47-8	OA5504000	265-149-8	30-35	(5)	NA	NF	NF	NF	(5)	NA	NA	MIST
LVF ALIFTIATIC TITUROCARBON	Asp. Tox.1; Skin Sens. 1B; Eye Irrit. 2B; Acute Aq. Tox. 3; H305, H317, H320, H402												
	64742-58-1		265-161-3										
DETROI ELIMA DA CE OU	64742-53-6	NA	265-156-6	5-10	(5)	NA (5)	(E) N	NF	IF NF	(5)	10	NA	MIST
PETROLEUM BASE OIL (MIXTURE)	64742-56-9		265-159-2				(5)	3) NF		(5)	10		IVIIST
	64742-65-0		265-169-7										
CALCIUM SULFONATE -	NA	NA	NA	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
PROPEITARY													
	124-38-9	FF640000	204-696-9	1-5	5000	3000	5000	9000	NF	5000	3000	4000	
CARBON DIOXIDE	124-30-9	11040000	204-030-9	1-0	3000	0	3000	9000	INF	3000	0	0	
	Press. Gas 2: I	H280											
_		•	•										•

HARBOR FREIGHT TOOLS

SAFETY DATA SHEET

Page 2 of 6

HFT-61475 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 12/24/2015 4. FIRST AID MEASURES 4 1 First Aid: If ingested, do not induce vomiting. Contact the nearest Poison Control Center or local emergency number Ingestion: or WD-40™ Safety Hotline at +1-888-324-7596. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. 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. Wash thoroughly with soap and water. In case of contact, immediately flush skin with plenty of water for at Skin: least 15 minutes. Inhalation: Remove victim to fresh air at once. If breathing is difficult, administer oxygen. If breathing stops give artificial respiration. Keep person warm, quiet and get medical attention. 42 Effects of Exposure: If product is swallowed, may cause gastrointestinal disturbance. Ingestion: Exposure to dust may cause eye irritation. Symptoms of overexposure may include redness, itching, Eyes: irritation and watering. Skin: May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals. Inhalation: Coughing, wheezing, shortness of breath, impaired pulmonary function. Irritation or soreness in throat, nose and respiratory tract. Drowsiness, dizziness, headaches and nausea Symptoms of Overexposure: 4.3 Ingestion: If product is swallowed, may cause gastrointestinal disturbance. Exposure to dust may cause eye irritation. Symptoms of overexposure may include redness, itching, Eyes: irritation and watering. May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in Skin: some sensitive individuals. Coughing, wheezing, shortness of breath, impaired pulmonary function. Irritation or soreness in throat, Inhalation: nose and respiratory tract. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea. Acute Health Effects: Non-irritating when used as directed. Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of dust can cause coughing, wheezing, shortness of breath, impaired pulmonary function. Irritation or soreness in throat, nose and respiratory tract. 4.5 Chronic Health Effects: Non-irritating when used as directed. Possible allergic dermatitis in some sensitive individuals 4.6 Target Organs: Eyes, Skin, Respiratory System and Central Nervous System (CNS) 4.7 Medical Conditions Pre-existing dermatitis, other skin conditions, and disorders of the HEALTH 2 Aggravated by Exposure target organs (eyes, skin) or impaired kidney function may be more **FLAMMABILITY** 3 susceptible to the effects of this substance. PHYSICAL HAZARDS 0 PROTECTIVE EQUIPMENT X **EYES** LUNGS SKIN 5. FIREFIGHTING MEASURES Fire & Explosion Hazards: Level 3 Aerosol (NFPA 30B). Aerosols may burst at temperatures above 120 °F. Cool uninvolved containers to prevent possible bursting. Aerosols may be projectile hazards when bursting. If aerosols are bursting, stay clear until bursting is complete. Do not use in presence of open flames or sparks. Do not place in hot water or near radiators, stoves or other sources of heat. Exposure to heat or sunlight may cause cans to burst and propel contents. Water from fog nozzles may be helpful in cooling un-ruptured containers to prevent build-up. Extinguishing Methods Water Fog, Foam, Dry Chemical, CO₂ 5.2 As in any fire, wear MSHA/NIOSH approved self-contained breathing apparatus (pressure-demand) Firefighting Procedures: 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 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 RELEASE MEASURES Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Spills For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows) and secure all sources of ignition. Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any 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 inert material (e.g., sand or earth). Use ONLY non-sparking tools for recovery and cleanup. Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of drains, municipal

sewers and open bodies of water.

HARBOR FREIGHT TOOLS

10.5

Incompatible Substances:

SAFETY DATA SHEET

Page 3 of 6

HFT-61475 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 12/24/2015 7. HANDLING & STORAGE INFORMATION Work & Hygiene Practices: Do not eat, drink or smoke when handling this product. Handle as to avoid puncturing container(s). Wash unintentional residues with soap and warm water. Keep tightly closed when not in use. Avoid contact with skin and clothing. 7.2 Storage & Handling: Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct sunlight. Avoid temperatures above 120 °F. Keep away from incompatible substances. Protect containers from physical damage. Avoid breathing vapor. Special Precautions: Clean all spills promptly. Spilled material may present a slipping hazard 7.3 8. EXPOSURE CONTROLS & PERSONAL PROTECTION Exposure Limits: ACGIH NOHSC OTHER ppm (mg/m³) TL<u>V</u> STFI ES-STEL STFI IDI H CHEMICAL NAME(S) TWA PFAK PFI PETROLEUM SOLVENT (5) NA NF NF NF (5)NA NA MIST LVP ALIPHATIC HYDROCARBON (5) NA NF NF NF (5) 10 NA MIST PETROLEUM BASE OIL (5) NA (5) NF NF (5) 10 NA MIST CARBON DIOXIDE 5000 30000 5000 9000 NF 5000 30000 40000 8.2 Ventilation & Engineering General mechanical (e.g., fans) or natural ventilation is sufficient when this product is in use. Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station). 8.3 Respiratory Protection: No special respiratory protection is required under typical circumstances of use or handling. In instances where mist or vapors 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 Eve Protection: Wear protective eyewear (e.g., safety glasses with side-shield) at all times when handling this product. Always use protective eyewear when cleaning spills or leaks. Wear goggles and/or face shield if splashing or spraying is anticipated. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants. Have suitable eye wash water available. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 8.5 Hand Protection: Use gloves constructed of chemical-resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact is expected. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, or the EU member states. Body Protection: Avoid prolonged and/or repeated skin contact. Use clean and impervious protective clothing (e.g., 8.6 neoprene or Tyvek®) if splashing or spraying conditions are present. Protective clothing should include long-sleeves, apron. boots and additional facial protection. If necessary, refer to appropriate standards of Canada, the EU member states, or U.S. OSHA. 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Appearance: Aerosol. Light amber liquid. 92 Odor: Mild petroleum odor. Odor Threshold: 9.3 NA 9.4 NA Melting Point/Freezing Point: 9.5 NA 9.6 Initial Boiling Point/Boiling 221 °C (430 °F) Range: 9.7 Flashpoint: 64 °C (147 °F) CC ASTM D3828 9.8 Upper/Lower Flammability UEL 5.6%; LEL 0.6% Limits: 9.9 Vapor Pressure: 2.03 mmHq @ 20 °C 9.10 Vapor Density: 5.3 (petroleum solvent) 9.11 Relative Density: NA 9 12 Solubility: Insoluble Partition Coefficient (log Pow): 9 13 NA 9.14 Autoignition Temperature: NA 9.15 Decomposition Temperature: NA 9 16 Viscosity Kinematic 2.79-2.96 cSt @ 100 °F 9.17 Other Information VOC: 24.51: percent volatile > 80% 10. STABILITY & REACTIVITY 10.1 Stability: Stable under normal conditions; unstable with heat or contamination. 10.2 Hazardous Decomposition Change in color signifies exposure to ultraviolet light or exceeding shelf life. Will not degrade to unstable products. Products: Discard solution. 10.3 Hazardous Polymerization: Will not occur. 10 4 Conditions to Avoid: Open flames, sparks, high heat, incompatible substances and direct sunlight.

Avoid extreme heat and ignition sources. Store away from oxidizers.

HARBOR FREIGHT TOOLS

Quality Tests at Ridiculously Low Prices

SAFETY DATA SHEET

Page 4 of 6 **HFT-61475**

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 12/24/2015 11. TOXICOLOGICAL INFORMATION Inhalation: YES Absorption: YES Ingestion: YES Routes of Entry: 11.1 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 is not presented in this document. 11.3 Acute Toxicity: Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea. Chronic Toxicity: 11.4 This material may aggravate any pre-existing skin condition (e.g., dermatitis) 11.5 Suspected Carcinogen: Reproductive Toxicity: 116 This product is not reported to produce reproductive toxicity in humans. Mutagenicity: This product is not reported to produce mutagenic effects in humans. Embryotoxicity: This product is not reported to produce embryotoxic effects in humans. Teratogenicity: This product is not reported to cause teratogenic effects in humans Reproductive Toxicity: This product is not reported to cause reproductive effects in humans. 11.7 Irritancy of Product: The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure 11.8 Biological Exposure Indices ΝE Physician Recommendations: 11.9 Treat symptomatically. 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability There are no specific data available for this product. Effects on Plants & Animals: 12 2 There are no specific data available for this product. 12.3 Effects on Aquatic Life: Aliphatic Petroleum Distillates: EC₅₀ (Algae, 72h) > 100 mg/L; LC₅₀ (Daphnia magna, 48h) > 100 mg/L; LC₅₀ (Fish, 96h) > 100 mg/L 13. DISPOSAL CONSIDERATIONS 13 1 Waste Disposal: Dispose of in accordance with federal, state, provincial and local regulations. 13.2 Special Considerations: 14. TRANSPORTATION INFORMATION The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR 14.1 49 CFR (GND): CONSUMER COMMODITY, ORM-D (≤ 1.0 L) - until 12/31/20 UN1950, AEROSOLS, 2.1 (LTD QTY, IP ≤ 1.0 L) 14.2 IATA (AIR): CONSUMER COMMODITY, 9, ID8000 (≤ 0.5 L) Лħ UN1950, AEROSOLS, FLAMMABLE, 2.1 (> 1.0 L) 14.3 IMDG (OCN): UN1950, AEROSOLS, 2.1 (LTD QTY, IP ≤ 1.0 L) 14 4 TDGR (Canadian GND): MARK PACKAGE ("LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" ≤ 1.0 L) or UN1950, AEROSOLS, FLAMMABLE, 2.1 (LTD QTY, IP ≤ 1.0 L) 14.5 ADR/RID (EU): UN1950, AEROSOLS, 2.1 (LTD QTY, IP ≤ 1.0 L) 14.6 SCT (MEXICO): UN1950, AEROSOLES, 2.1 (CANTIDAD LIMITADA, IP ≤ 1.0 L) ADGR (AUS): UN1950, AEROSOLS, 2.1 (LTD QTY, IP \leq 1.0 L) * WD-40™ does not test aerosol cans to assure they meet pressure requirements for transportation by air. 15. REGULATORY INFORMATION SARA Reporting 15.1 This product does not contain any substances subject to SARA Title III, Section 313 reporting requirements. Requirements 15.2 SARA Threshold Planning There are no specific Threshold Planning Quantities for the components of this product. Quantity: 15.3 TSCA Inventory Status: The components of this product are listed on the TSCA Inventory or are otherwise exempt. CERCLA Reportable Quantity 15 4 NA Other Federal Requirements: 15.5 15.6 Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS Class B5, D2B (Flammable Aerosol, Other Toxic Effects).

HARBOR FREIGHT TOOLS

Quality Teols at Ridiculously Low Prices

16.5

Prepared by:

ShipMate, Inc. P.O. Box 787

Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com

Sisters, Oregon 97759-0787 USA

SAFETY DATA SHEET

Page 5 of 6 **HFT-61475**

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 12/24/2015 15. REGULATORY INFORMATION 15.7 State Regulatory Information: Carbon Dioxide can be found on the following state criteria lists: FL, MA, MN, 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 (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) 15.8 Other Requirements: The primary components of this product are not listed in Annex I of EU Directive 67/548/EEC: Flammable, Harmful (F, Xn). Risk Phrases (R): 10-20 - Flammable. Harmful by inhalation. Safety Phrases (S): 2-23-24-62 - Keep away from children. Do not breathe fumes/spray. Avoid contact with skin. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label where possible. 16. OTHER INFORMATION DANGER! EXTREMELY FLAMMABLE AEROSOL. PRESSURIZED CONTAINER MAY BURST IF HEATED. 16.1 Other Information: HARMFUL IF SWALLOWED. CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE IRRITATION. Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °F (122 °F). Wash thoroughly with soap and water after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention. KEEP OUT OF REACH OF CHILDREN. Terms & Definitions: 16.2 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 & Harbor Freight Tools USA, Inc.'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. Be sure to consult the latest edition. 16.4 Prepared for: Harbor Freight Tools USA, Inc. 26541 Agoura Road **HARBOR FREIGHT TOOLS** Calabasas, CA 91302 USA Tel: +1 (805) 388-1000 http://www.harborfreight.com

SAFETY DATA SHEET

Page 6 of 6 HFT-61475

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

SDS Revision Date: 12/24/2015

DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number					
EXPOSURE LIMITS IN AIR:						
ACGIH	American Conference on Governmental Industrial Hygienists					
С	Ceiling Limit					
ES	Exposure Standard (Australia)					
IDLH	Immediately Dangerous to Life and Health					
OSHA	U.S. Occupational Safety and Health Administration					
PEL	Permissible Exposure Limit					
STEL	Short-Term Exposure Limit					
TLV	Threshold Limit Value					
TWA	Time Weighted Average					

FIRST AID MEASURES:

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

HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

TEROGRAPI ROTECTION RATINGS.								
Α								
В								
С								
D	6							
Е								
F								













& Full Suit





Full Face Respirator

Dust & Vapor Half-

Full Face



Mask Respirator OTHER STANDARD ABBREVIATIONS:

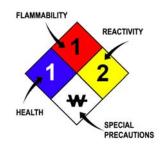
ML	Maximum Limit			
mg/m3	milligrams per cubic meter			
NA Not Available				
ND	Not Determined			
NE	Not Established			
NF	Not Found			
NR	No Results			
ppm parts per million				
SCBA Self-Contained Breathing Apparatus				

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILI	TY 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					
1	Slight Hazard					
2	Moderate Hazard					
3	Severe Hazard					
4	Extreme Hazard					
ACD	Acidic					
ALK	Alkaline					
COR	Corrosive					
₩	Use No Water					
ох	Oxidizer					
TREFOIL	Radioactive					



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s					
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	Lowest dose (or concentration) to cause lethal or toxic effects					
TC, TC _o , LC _{lo} , & LC _o						
IARC	International Agency for Research on Cancer					
NTP	National Toxicology Program					
RTECS	Registry of Toxic Effects of Chemical Substances					
BCF	Bioconcentration Factor					
TL _m	Median threshold limit					
log K _{ow} or log K _{oc}	Coefficient of Oil/Water Distribution					

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System				
DOT	U.S. Department of Transportation				
TC Transport Canada					
EPA	U.S. Environmental Protection Agency				
DSL Canadian Domestic Substance List					
NOHSC National Occupational Health and Safety Commission (Australia)					
NDSL	Canadian Non-Domestic Substance List				
PSL	Canadian Priority Substances List				
TSCA	U.S. Toxic Substance Control Act				
EU European Union (European Union Directive 67/548/EEC)					
WGK Wassergefährdungsklassen (German Water Hazard Class)					
HMIS-III	National Paint & Coatings Association Hazardous Materials Identification System				

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

***********	., (0= 11, (=)		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0 10 = 111111	971110111		· • · - · · · ·
	((2)	(3)	\odot	(18)		
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

EC (67/548/EEC) INFORMATION:

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

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