HARBOR FREIGHT TOOLS

Product Name:

Chemical Name:

Synonyms

12

1.3

1.8

# SAFETY DATA SHEET

Page 1 of 6 HFT-61495

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

SDS Revision: 1.0

SDS Revision Date: 12/24/2015

1. PRODUCT & COMPANY IDENTIFICATION
WD-40 <sup>®</sup> 3-IN-ONE MULTI-PURPOSE OIL
NA
P/N 61495

1.4 Trade Names WD-40® 1.5 Product Uses & Restrictions: Lubricant, Penetrant Harbor Freight Tools USA, Inc. 1.6 Distributor's Name 1.7 Distributor's Address: 26541 Agoura Road, Calabasas, CA 91302 USA

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

1.9 Business Phone / Fax: +1 (805) 388-1000

### 2. HAZARDS IDENTIFICATION

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! MAY BE HARMFUL IF SWALLOWED AND ENTERS AIRWAYS. MAY CAUSE AN

ALLERGIC SKIN REACTION. CAUSES EYE IRRITATION.

<u>Classification</u>: Flam. Liq. 4; Asp. Tox. 1; Skin Sens. 1B; Eye Irrit. 2B <u>Hazard Statements</u> (H): H304 – May be fatal if swallowed and enters airways. H317 – May cause an allergic skin reaction. H320 - Causes eye irritation.

Precautionary Statements (P): P210 - Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking. P261 – Avoid breathing fume/mist/vapors/spray. P272 – Contaminated work clothing should not be allowed out of the workplace. P264 - Wash thoroughly with soap and water after handling. P280 - Wear protective gloves/protective clothing/ eye protection/ face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor. P331 - Do NOT induce vomiting. P302+P352 - IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse with water or shower. P333 + P313 - If skin irritation or rash occurs: get medical advice/attention. P321 - Specific treatment: see Section 4 of this Safety Data Sheet. P362+ P364 - Take off contaminated clothing and was 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. P403+P235 - Store in a well-ventilated place. Keep cool. P405 -Store locked up. P501 - Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF).



#### 3 COMPOSITION & INGREDIENT INFORMATION

3. COMPOSITION & INGREDIENT INFORMATION													
								EXPO	SURE L	MITS IN	I AIR (m	g/m³)	
			AC	GIH		NOHSC			OSHA				
					ppm		ppm		ppm				
							ES-	ES-	ES-				
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	TWA	STEL	PEAK	PEL	STEL	IDLH	OTHER
SEVERELY HYDROTREATED	64742-52-5	NA	265-155-0	60-100	(5)	(10)	(5)	NA	NA	(5)	NA	NA	OIL MIST
NAPHTHENIC PETROLEUM OIL *	Asp. Tox. 1; H	304											
ALIPHATIC PETROLEUM	64742-47-8	OA5504000	265-149-8	1-5	(5)	NA	NF	NF	NF	(5)	NA	NA	MIST
DISTILLATES	Asp. Tox.1; Sk	in Sens. 1B; Eye	Irrit. 2B; Acute A	Aq. Tox. 3;	H305, I	H317, ⊦	1320, H	402					
DDODDIETADY INCDEDIENTO	NA	NA	NA	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
PROPRIETARY INGREDIENTS			•										

contains less than 3% DMSO

			4. FIRST AID MEASURES
4.1	First Aid:	Ingestion:	If ingested, do not induce vomiting. Contact the nearest Poison Control Center or local emergency number 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.
		Eyes:	Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm water 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.
		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.
4.2	Effects of Exposure:	Ingestion:	If product is swallowed, may cause gastrointestinal disturbance.
		Eyes:	Exposure to dust may cause eye irritation. Symptoms of overexposure may include redness, itching, 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.

HARBOR FREIGHT TOOLS

# SAFETY DATA SHEET

Page 2 of 6 **HFT-61495** 

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 - cont'd 4.3 Symptoms of Overexposure: 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. May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in Skin: some sensitive individuals. Inhalation: Coughing, wheezing, shortness of breath, impaired pulmonary function. Irritation or soreness in throat, nose and respiratory tract. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea. 4.4 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. Chronic Health Effects: 4.5 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** 1 Aggravated by Exposure: target organs (eyes, skin) or impaired kidney function may be more **FLAMMABILITY** 1 susceptible to the effects of this substance. PHYSICAL HAZARDS 0 PROTECTIVE EQUIPMENT X SKIN LUNGS 5. FIREFIGHTING MEASURES This material can burn but will not readily ignite. However, if involved in a fire, this product may Fire & Explosion Hazards: decompose at high temperatures to form toxic gases (e.g., CO, CO<sub>X</sub>, Hydrocarbons). 5.2 Extinguishing Methods: CO<sub>2</sub>, Dry Chemical, Alcohol foam, Dry Chemical. Use water spray to cool containers. 5.3 Firefighting Procedures: Keep containers cool until well after the fire is out. Fight fires as 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 fireexposed 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 6 1 Spills: Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. 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. 7. HANDLING & STORAGE INFORMATION Do not eat, drink or smoke when handling this product. Handle as to avoid puncturing container(s). Wash unintentional 7.1 Work & Hygiene Practices: residues with soap and warm water. Keep tightly closed when not in use. Avoid contact with skin and clothing. Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct 7.2 Storage & Handling: sunlight. Avoid temperatures above 120 °F. Keep away from incompatible substances. Protect containers from physical damage. Avoid breathing vapor. 7.3 Special Precautions: Clean all spills promptly. Spilled material may present a slipping hazard. 8. EXPOSURE CONTROLS & PERSONAL PROTECTION NOHSC OSHA OTHER ACGIH Exposure Limits: ppm (ma/m<sup>3</sup>) ES-ES-TLV STEL ES-STEL PEL STEL IDLH CHEMICAL NAME(S) PEAK SEVERELY HYDROTREATED NA NA NA OIL MIST (5) (10)(5) NA (5) NAPHTHENIC PETROLEUM OIL ALIPHATIC PETROLEUM NF MIST (5) NA NF NF NA NA (5) DISTILLATES

HARBOR FREIGHT TOOLS

Quality Teols at Midiculously Low Prices

# **SAFETY DATA SHEET**

Page 3 of 6 **HFT-61495** 

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 12/24/2015

	ΩΙ	EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd
8.2		
0.2	Ventilation & Engineering Controls:	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	Eye 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 166(EU).
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.
8.6	Body Protection:	Avoid prolonged and/or repeated skin contact. Use clean and impervious protective clothing (e.g., 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:	Clear Amber Liquid.
9.2	Odor:	Mild Citronella Odor.
9.3	Odor Threshold:	NA NA
9.4	pH:	NA NA
9.5	Melting Point/Freezing Point:	NA NA
9.6	Initial Boiling Point/Boiling Range:	287.7°C (550 °F)
9.7	Flashpoint:	151.6 °C (305 °F) TOC
9.8	Upper/Lower Flammability Limits:	NA NA
9.9	Vapor Pressure:	NA NA
9.10	Vapor Density:	NA NA
9.11	Relative Density:	0.866-0.923 @ 60 °F
9.12	Solubility:	Insoluble
9.13	Partition Coefficient (log Pow):	NA NA
9.14	Autoignition Temperature:	NA NA
9.15	Decomposition Temperature:	NA NA
9.16	Viscosity:	112 SUS (23.31 cSt) @ 37.7 °C (100 °F)
9.17	Other Information:	NA NA
		10. STABILITY & REACTIVITY
10.1	Stability:	Stable under normal conditions; unstable with heat or contamination.
10.2	Hazardous Decomposition Products:	Change in color signifies exposure to ultraviolet light or exceeding shelf life. Will not degrade to unstable 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.
10.5	Incompatible Substances:	Avoid extreme heat and ignition sources. Store away from oxidizers.
├──		44 TOVICOLOGICAL INFORMATION
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11.1	Routes of Entry:	11. TOXICOLOGICAL INFORMATION  Inhalation: YES   Absorption: YES   Ingestion: YES
11.1	Routes of Entry:  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. Based on animal testing from similar materials & products, the acute toxicity of this product is expected to be: Distillates, Petroleum, Solvent-Refined, Heavy Paraffinic – LD <sub>50</sub> (oral, rat) > 5,000 mg/kg; LD <sub>50</sub> (dermal, rabbit) > 2,000 mg/kg.
	Toxicity Data:  Acute Toxicity:	Inhalation: YES  Absorption: YES  Ingestion: YES  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. Based on animal testing from similar materials & products, the acute toxicity of this product is expected to be: Distillates, Petroleum, Solvent-Refined, Heavy Paraffinic – $LD_{50}$ (oral, rat) > 5,000 mg/kg; $LD_{50}$ (dermal, rabbit) > 2,000 mg/kg.  Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects.
11.2	Toxicity Data:	Inhalation: YES  Absorption: YES  Ingestion: YES  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. Based on animal testing from similar materials & products, the acute toxicity of this product is expected to be: Distillates, Petroleum, Solvent-Refined, Heavy Paraffinic – $LD_{50}$ (oral, rat) > 5,000 mg/kg; $LD_{50}$ (dermal, rabbit) > 2,000 mg/kg.  Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place

HARBOR FREIGHT TOOLS

# SAFETY DATA SHEET

Page 4 of 6 HFT-61495

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 12/24/2015 11. TOXICOLOGICAL INFORMATION – cont'd 11.6 Reproductive Toxicity: 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: Treat symptomatically. 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: There are no specific data available for this product 12.2 Effects on Plants & Animals There are no specific data available for this product. Aliphatic Petroleum Distillates: EC<sub>50</sub> (Algae, 72h) > 100 mg/L; LC<sub>50</sub> (Daphnia Magna, 48h) > 100 mg/L; LC<sub>50</sub> (Fish, 96h) 12.3 Effects on Aquatic Life: > 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. 49 CFR (GND): **NOT REGULATED** IATA (AIR)\*: 14.2 **NOT REGULATED** 14.3 IMDG (OCN) NOT REGULATED 14.4 TDGR (Canadian GND): NOT REGULATED ADR/RID (EU): 14.5 **NOT REGULATED** 14.6 SCT (MEXICO) NOT REGULATED 14.7 ADGR (AUS) NOT REGULATED \* WD-40™ does not test to assure cans 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. 15.4 CERCLA Reportable Quantity NA (RQ) 15.5 Other Federal Requirements: NA 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 D2B (Other Toxic Effects). 15.7 State Regulatory Information: No 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 listed in Annex I of EU Directive 67/548/EEC:

immediately and show this container or label where possible.

Aliphatic Petroleum Distillates: Harmful (Xn). Risk Phrases (R): 65 - Harmful may cause lung damage if swallowed. 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 HARBOR FREIGHT TOOLS

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# SAFETY DATA SHEET

Page 5 of 6 **HFT-61495** 

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 12/24/2015 16. OTHER INFORMATION DANGER! MAY BE HARMFUL IF SWALLOWED AND ENTERS AIRWAYS. MAY CAUSE AN ALLERGIC SKIN 16 1 Other Information: REACTION. CAUSES EYE IRRITATION. Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking. In case of fire: Use CO2, dry chemical or alcohol foam for extinction. Avoid breathing fume/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wash thoroughly with soap and water after handling. Wear protective gloves/protective clothing/ eye protection/ face protection. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse with water or shower. If skin irritation or rash occurs: get medical advice/attention. Specific treatment: see Section 4 of this Safety Data Sheet. Take off contaminated clothing and was 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. Store in a well-ventilated place. Keep cool. Store locked up. KEEP OUT OF REACH OF CHILDREN. Terms & Definitions: 16.2 See last page of this Safety Data Sheet. 16.3 This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other Disclaimer: 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 Quality Tools at Ridiculously Low Prices Tel: +1 (805) 388-1000 http://www.harborfreight.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

# **SAFETY DATA SHEET**

Page 6 of 6 HFT-61495

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	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:

TEROGRAL TROTLETION RATINGS.						
Α						
В						
С						
D						
Е						
F						











Synthetic Apron





**Full Face Respirator** 

**Dust & Vapor Half-**

**Full Face** Mask Respirator

Airline Hood/Mask or SCBA

### OTHER STANDARD ABBREVIATIONS:

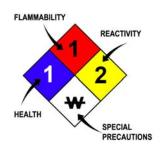
ML	Maximum Limit	
mg/m3 milligrams per cubic meter		
NA	Not Available	
ND	Not Determined	
NE	Not Established	
NF	Not Found	
NR	No Results	
ppm	parts per million	
SCBA	Self-Contained Breathing Apparatus	

# NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:					
Autoignition Temperature Minimum temperature required to initiate combustion in air with n 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	
TOVICOLOGICAL INFORMATION.		



#### TOXICOLOGICAL INFORMATION:

CALCOLOGICAL IIII CIUMATITCIU				
LD <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s			
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 TC, TC <sub>o</sub> , LC <sub>Io</sub> , & LC <sub>o</sub>	Lowest dose (or concentration) to cause lethal or toxic effects			
IARC	International Agency for Research on Cancer			
NTP	National Toxicology Program			
RTECS	Registry of Toxic Effects of Chemical Substances			
BCF	Bioconcentration Factor			
TL <sub>m</sub>	Median threshold limit			
log K <sub>ow</sub> or log K <sub>oc</sub>	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		

#### WORKELACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM-

WORKER EXCELLENT EXCELLENT EXCELLENT TO A THORNE OF THE PERSON OF THE PE								
0	<b>(3)</b>	<u>(2)</u>	<b>②</b>	<b>(T)</b>	<b>®</b>		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	

### EC (67/548/EEC) INFORMATION:

			*			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