

1. PRODUCT & COMPANY IDENTIFICATION

1.1	Product Name:	STARKE SHIELD - FABRIC GUARD
1.2	Chemical Name:	MIXTURE
1.3	Synonyms:	NA
1.4	Trade Names:	Starke Shield - Fabric Guard
1.5	Product Use:	Stain and Spill Treatment
1.6	Distributor's Name:	Starke Yacht Surface Technologies
1.7	Distributor's Address:	17000 Alico Commerce Ct., Suite 101, Fort Myers, FL 33912
1.8	Emergency Phone:	John Watkins +1 (239) 851-6030
1.9	Business Phone / Fax:	+1 (800) 203-5315

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! FLAMMABLE LIQUID AND VAPOR. MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. MAY CAUSE DROWSINESS OR DIZZINESS. CAUSES SERIOUS EYE IRRITATION. CAUSES MILD SKIN IRRITATION. <u>Classification:</u> Flam. Liq. 3, Asp. Tox. 1, STOT SE 3, Eye Irrit. 2, Skin Irrit. 3
2.2	Label Elements:	<p><u>Hazard Statements (H):</u> H226 – Flammable liquid and vapor. H304 – May be fatal if swallowed and enters airways. H336 – May cause drowsiness or dizziness. H319 – Causes serious eye irritation. H316 – Causes mild skin irritation.</p> <p><u>Precautionary Statements (P):</u> P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 – Keep container tightly closed. P240 – Ground and bond container and receiving equipment. P241 – Use explosion-proof (electrical/ventilating/lighting) equipment. P242 – Use non-sparking tools. P243 – Take action to prevent static discharges. P261 – Avoid breathing dust/fume/gas/mist/vapors/spray. P262 – Do not get in eyes, on skin, or on clothing. P264 – Wash thoroughly after handling. P271 – Use only outdoors or in a well-ventilated area. P280 – Wear protective gloves/protective clothing/eye protection/face protection. P301+P316 – IF SWALLOWED: Get emergency medical help immediately. P331 – Do not induce vomiting. P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower]. P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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+P317 – If eye irritation persists: Get medical help. P332+P317 – If skin irritation occurs: Get medical help. P370+P378 – In case of fire: Use CO₂, BC powder, dry chemical, foam, water mist to extinguish. P319 – Get medical help if you feel unwell. P233 – Keep container tightly closed. 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).</p>
2.3	Other Warnings:	KEEP OUT OF REACH OF CHILDREN



3. COMPOSITION & INGREDIENT INFORMATION


CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m ³)									OTHER
					ACGIH		NOHSC			OSHA				
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH		
PROPRIETARY INGREDIENTS	NA	NA	NA	BAL	NA	NA	NF	NF	NF	NA	NA	NA		
ODORLESS MINERAL SPIRITS*	64742-48-9	OA5504000	265-150-3	≥ 90	200	NA	NF	NF	NF	200	NA	NA	Resp. Frac.	
STODDARD SOLVENT*	8052-41-3	WJ8925000	232-489-3	1-5	2900	NA	790	NF	NF	2900	NA	NA		
TITANIUM TETRAISOPROPANOLATE	546-68-9	NT8060000	208-909-6	1-5	NA	NA	NF	NF	NF	NA	NA	NA		

*<0.1% Benzene

4. FIRST AID MEASURES

4.1	First Aid:	<p>Ingestion: If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk 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.</p> <p>Eyes: Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.</p> <p>Skin: If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.</p> <p>Inhalation: Remove victim to fresh air at once.</p>										
4.2	Effects of Exposure:	<p>Ingestion: If product is swallowed, may cause nausea, vomiting and/or diarrhea.</p> <p>Eyes: Moderately irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering.</p> <p>Skin: May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals.</p> <p>Inhalation: None expected.</p>										
4.3	Symptoms of Overexposure:	<p>Ingestion: Nausea, intestinal discomfort, vomiting and/or diarrhea.</p> <p>Eyes: Overexposure in eyes may cause redness, itching and watering.</p> <p>Skin: Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. Product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some individuals.</p>										
4.4	Acute Health Effects:	Non-irritating when used as directed. Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea.										
4.5	Chronic Health Effects:	Non-irritating when used as directed. Overexposure may trigger asthma-like symptoms in some sensitive individuals. May also induce skin sensitization and respiratory hypersensitivity. Possible allergic dermatitis.										
4.6	Target Organs:	Eyes, CNS										
4.7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other skin conditions, and disorders of the target organs (eyes).										
		<table border="1"> <tr> <td>HEALTH</td> <td>1</td> </tr> <tr> <td>FLAMMABILITY</td> <td>3</td> </tr> <tr> <td>PHYSICAL HAZARDS</td> <td>0</td> </tr> <tr> <td>PROTECTIVE EQUIPMENT</td> <td>B</td> </tr> <tr> <td>EYES</td> <td>SKIN</td> </tr> </table>	HEALTH	1	FLAMMABILITY	3	PHYSICAL HAZARDS	0	PROTECTIVE EQUIPMENT	B	EYES	SKIN
HEALTH	1											
FLAMMABILITY	3											
PHYSICAL HAZARDS	0											
PROTECTIVE EQUIPMENT	B											
EYES	SKIN											

5. FIREFIGHTING MEASURES

5.1	Fire & Explosion Hazards:	<p>WARNING! 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</p>	
5.2	Extinguishing Methods:	CO ₂ , BC powder, Dry Chemical, Foam, water mist.	
5.3	Firefighting Procedures:	<p>Fight fires according to the surrounding materials. As in any fire, wear an MSHA / NIOSH approved self-contained breathing apparatus (pressurized) and full protective clothing. Keep containers cold long after the fire is out. Use a spray of diffused water to cool the surfaces exposed to the fire and to protect personnel. Fight the fire upstream. Avoid spraying water directly into storage containers due to the danger of overflowing. Prevent runoff from fire control or dilution from entering sewers, drains, potable water supplies or natural waterways. Firefighters must use full response clothing including a NIOSH approved self-contained positive pressure breathing apparatus to protect against potential hazardous combustion or decomposition of products and lack of oxygen.</p>	

6. ACCIDENTAL RELEASE MEASURES

6.1	Spills:	<p>Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. CAUTION – may be slippery if spilled.</p> <p>For <u>small spills</u> (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.</p> <p>For <u>large spills</u> (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 municipal sewers and open bodies of water.</p>
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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards

SDS Revision: 1.0

SDS Revision Date: 5/17/2022

7. HANDLING & STORAGE INFORMATION

7.1	Work & Hygiene Practices:	Do not eat, drink, or smoke when using this product. Wash exposed areas thoroughly with soap and water. Avoid breathing of vapors, mists, or spray. Avoid prolonged or repeated skin contact. Wash hands after handling, and before eating. Avoid breathing of dust created by sanding, grinding, or machining. When polishing with product, keep moist to avoid dust.
7.2	Storage & Handling:	Keep containers sealed at all times, store in well-ventilated area. Store away from areas where product may come into contact with food or pharmaceuticals. Store away from oxidizing agents.
7.3	Special Precautions:	Follow all instructions on product label. Keep container closed when not in use. Keep this and all chemicals out of reach of children.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1	Exposure Limits: ppm (mg/m ³)	ACGIH		NOHSC			OSHA			OTHER
		TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
	CHEMICAL NAME(S)									
	ODORLESS MINERAL SPIRIT	200	NA	NF	NF	NF	200	NA	NA	
	STODDARD SOLVENT	2900	NA	790	NF	NF	2900	NA	NA	
8.2	Ventilation & Engineering Controls:	Provide appropriate local exhaust ventilation on open containers. When using keep the product moist at all times. Use in an enclosed process area is recommended. Use in a well-ventilated area. Do not use in a confined area or areas with little or no air movement.								
8.3	Respiratory Protection:	Avoid breathing of vapors, mists or spray. No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states, or Australia.								
8.4	Eye Protection:	AVOID EYE CONTACT. Wear safety glasses. If necessary, refer to U.S. OSHA 29 CFR §1910.133, Canadian standards, or the European Standard EN166.								
8.5	Hand Protection:	AVOID SKIN CONTACT. Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials. Gloves made from the following material(s) are recommended: <u>Nitrile Rubber</u> . 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 required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the E.C. member states, or U.S. OSHA.								

9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Appearance:	Colorless liquid
9.2	Odor:	Characteristic
9.3	Odor Threshold:	NA
9.4	pH:	7
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	157.2 °C (314.9 °F) @ 101.3 kPa
9.7	Flashpoint:	49 °C (120°F) 101.3 kPa 120°F @ 1 atm
9.8	Upper/Lower Flammability Limits:	LEL 0.7% vol / UEL 6% vol
9.9	Vapor Pressure:	1.33 kPa @ 63.2 °C
9.10	Vapor Density:	NA
9.11	Relative Density:	0.75-0.77 g/cm ³ @ 25 °C
9.12	Solubility:	Soluble in water
9.13	Partition Coefficient (log P _{ow}):	NA
9.14	Autoignition Temperature:	343 °C (694 °F)
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	NA
9.17	Other Information:	NA

10. STABILITY & REACTIVITY

10.1	Stability:	Stable under ambient conditions when stored properly (see section 7, Storage and Handling)
10.2	Hazardous Decomposition Products:	If exposed to extremely high temperatures, the products of thermal decomposition may include irritation vapors and carbon oxide gases (e.g. CO, CO ₂).
10.3	Hazardous Polymerization:	Hazardous polymerization will not occur.
10.4	Conditions to Avoid:	High temperatures and incompatible substances.
10.5	Incompatible Substances:	Strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

11.1	Routes of Entry:	Inhalation: YES	Absorption: YES	Ingestion: YES
11.2	Toxicity Data:	This product has not been tested on animals to obtain toxicology data. There is toxicology data for some components of the product, which are found in scientific literature.		
11.3	Acute Toxicity:	See Section 4.4		
11.4	Chronic Toxicity:	See Section 4.5		
11.5	Suspected Carcinogen:	No.		
11.6	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:	The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure.		
11.8	Biological Exposure Indices:	NA		
11.9	Physician Recommendations:	Treat symptomatically.		

12. ECOLOGICAL INFORMATION









12.1	Environmental Stability:	This product will slowly degrade over time into a variety of organic compounds.
12.2	Effects on Plants & Animals:	There are no specific data available for this product.
12.3	Effects on Aquatic Life:	Product is expected to rapidly disperse in the aquatic environment. Isopropanol: LC ₅₀ 10,000 mg/l (fish, 96h); Propylene Glycol Butyl Ether: EC ₅₀ >1,000 mVl (aquatic invertebrates 48h); d-Limonene: LC ₅₀ 720 µg/l (fish, 96h), EC ₅₀ 688 µg/l (fish, 96h).

13. DISPOSAL CONSIDERATIONS

13.1	Waste Disposal:	Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, and federal laws and regulations. California State Waste Code: 331
13.2	Special Considerations:	Contact the federal, state or provincial environmental authority to determine suitability for recycling and or proper disposal requirements. U.S. EPA Waste Number: D001 (characteristic - ignitable)

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):	NOT REGULATED (49 CFR §173.150 (f)); or UN1993, FLAMMABLE LIQUID, N.O.S., (ODORLESS MINERAL SPIRIT, STODDARD SOLVENT), 3, III, (LTD QTY, IP VOL ≤ 5.0 L)	
14.2	IATA (AIR):	UN1993, FLAMMABLE LIQUID, N.O.S., (ODORLESS MINERAL SPIRIT, STODDARD SOLVENT), 3, III, (LTD QTY, IP VOL ≤ 2.5 L GLASS, ≤ 2.5 L METAL OR PLASTIC); OR ID8000, CONSUMER COMMODITY, 9 (LTD QTY, IP VOL ≤ 0.5 L)	 
14.3	IMDG (OCN):	UN1993, FLAMMABLE LIQUID, N.O.S., (ODORLESS MINERAL SPIRIT, STODDARD SOLVENT), 3, III, (LTD QTY, IP VOL ≤ 5.0 L)	
14.4	TDGR (Canadian GND):	UN1993, FLAMMABLE LIQUID, N.O.S., (ODORLESS MINERAL SPIRIT, STODDARD SOLVENT), 3, III, (LTD QTY, IP VOL ≤ 5.0 L)	
14.5	ADR/RID (EU):	UN1993, FLAMMABLE LIQUID, N.O.S., (ODORLESS MINERAL SPIRIT, STODDARD SOLVENT), 3, III, (LTD QTY, IP VOL ≤ 5.0 L)	
14.6	SCT (MEXICO):	UN1993, LÍQUIDO INFLAMABLE, N.E.P., (ALCOHOL MINERAL INODORO, SOLVENTE STODDARD), 3, III, (CANTIDAD LÍMITE, IP VOL ≤ 5.0 L)	
14.7	ADGR (AUS):	UN1993, FLAMMABLE LIQUID, N.O.S., (ODORLESS MINERAL SPIRIT, STODDARD SOLVENT), 3, III, (LTD QTY, IP VOL ≤ 5.0 L)	

15. REGULATORY INFORMATION



15.1	SARA Reporting Requirements:	This product does not contain a substance subject to SARA Title III (313) reporting and 40 CFR part 373.
15.2	SARA Threshold Planning Quantity:	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 (RQ):	NA
15.5	Other Federal Requirements:	This product does not contain any substances identified as Hazardous Air Pollutants (HAPs).
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the HPR and the MSDS contains all of the information required by the HPR. 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 B3, D2B (Flammable Liquid, Other Toxic Effects)



15. REGULATORY INFORMATION – cont'd

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). This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information go to www.P65Warnings.ca.gov .
15.8	Other Requirements:	This product is found on the following inventory lists: Australia - AICS, China – IECSC, Europe – ELINCS/EINEC, Japan – ENCS; Korea – KECI; New Zealand – NZIoC; {Philippines – PICCS; USA – TSCA.

16. OTHER INFORMATION

16.1	Other Information:	<p>WARNING! FLAMMABLE LIQUID AND VAPOR. MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. MAY CAUSE DROWSINESS OR DIZZINESS. CAUSES SERIOUS EYE IRRITATION. CAUSES MILD SKIN IRRITATION.</p> <p>Read instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof (electrical/ventilating/lighting) equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/ eye protection/face protection. IF SWALLOWED: Get emergency medical help immediately. Do not induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower]. IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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 help. If skin irritation occurs: Get medical help. In case of fire: Use CO₂, BC powder, dry chemical, foam, water mist to extinguish. Get medical help if you feel unwell. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.</p> <p>KEEP OUT OF REACH OF CHILDREN.</p>	
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 & Starke Yacht Care'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:	<p>STARKE YACHT CARE 17000 Alico Commerce Ct. Suite 101 Fort Myers, FL 33912 Tel: +1 (800) 203-5315 http://www.starkeyachtcare.com</p>	
16.5	Prepared by:	<p>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</p>	

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.
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HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

HEALTH
FLAMMABILITY
PHYSICAL HAZARDS
PERSONAL PROTECTION

PERSONAL PROTECTION RATINGS:

A		G	
B		H	
C		I	
D		J	
E		K	
F		X	Consult your supervisor or SOPs for special handling directions.

Safety Glasses	Splash Goggles	Face Shield & Protective Eyewear	Gloves
Boots	Protective Apron	Protective Clothing & Full Suit	Dust Respirator
Full Face Respirator	Dust & Vapor Half-Mask Respirator	Full Face Respirator	Airline Hood/Mask or SCBA

OTHER STANDARD ABBREVIATIONS:

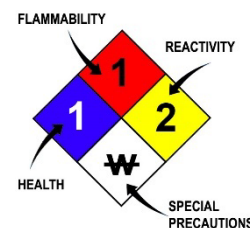
Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure
STOT SE	Specific Target Organ Toxicity – Single Exposure

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
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
W	Use No Water
OX	Oxidizer
TREFOIL	Radioactive



TOXICOLOGICAL INFORMATION:

LD₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD₁₀	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD₁₀, LD₁₀, & LD₀₁ or TC, TC₀₁, LC₁₀, & LC₀₁	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_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
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:

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:

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