

## 1. PRODUCT IDENTIFICATION

1.1	Product Name: <b>TRISSOLA TRUE PREP SHAMPOO</b>
1.2	Chemical Name: <b>Aqueous Solution</b>
1.3	Synonyms: <b>NA</b>
1.4	Trade Names: <b>Trissola True Prep Shampoo</b>
1.5	Product Use: <b>Hair Conditioner - Professional Use Only</b>
1.6	Distributor's Name: <b>Envy Professional</b>
1.7	Distributor's Address: <b>4315 Woodman Ave., Sherman Oaks, CA 91423 USA</b>
1.8	Emergency Phone: <b>CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-3887</b>
1.9	Business Phone: <b>+1 (877) 408-2234 or +1 (818) 905-5999</b>

## 2. HAZARD IDENTIFICATION

2.1	Hazard Identification: <b>This product is neither classified as a HAZARDOUS SUBSTANCE nor as DANGEROUS GOODS according to the classification criteria of NOHSC: 1008 (2004) and ADG Code (Australia). In case of eye contact, rinse immediately with water. For external use only. Keep out of reach of children. Use only as directed.</b> <b><u>Hazard Statements (H):</u> None.</b> <b><u>Precautionary Statements (P):</u> P102 – Keep out of reach of children. P270 - Do not eat, drink, or smoke when using this product. P305+P351+P338 – IF IN EYES - Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.</b>						
2.2	Routes of Entry:	Inhalation:	<b>NO</b>	Absorption:	<b>YES</b>	Ingestion:	<b>YES</b>
2.3	Effects of Exposure: <b>INGESTION: If product is swallowed, may cause nausea, vomiting and/or diarrhea.</b> <b>EYES: Moderately irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering.</b> <b>SKIN: The product may cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals.</b> <b>INHALATION: None expected.</b>						
2.4	Symptoms of Overexposure: <b>Overexposure in eyes may cause redness, itching and watering. Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. The product may cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals.</b>						
2.5	Acute Health Effects: <b>Moderate irritation to eyes. Moderate irritation to skin near affected areas.</b>						
2.6	Chronic Health Effects: <b>No harmful or chronic health effects are expected to occur from a single accidental ingestion.</b>						
2.7	Target Organs: <b>Eyes</b>						

NA = Not Available; ND = Not Determined; NE = Not Established; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used  
 NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2010 format.

### 3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m <sup>3</sup> )								
					ACGIH ppm		NOHSC ppm			OSHA ppm			OTHER
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
WATER (AQUA)	7732-18-5	ZC0110000	231-791-2	60-100	NA	NA	NF	NF	NF	NA	NA	NA	
DISODIUM LAURETH SULFOSUCCINATE	39354-45-5	NA`	NA	10-30	NA	NA	NF	NF	NF	NA	NA	NA	
SODIUM LAUROYL SARCOSINATE	110615-47-9	NA	NA	≤ 10.0	NA	NA	NF	NF	NF	NA	NA	NA	
COCAMIDOPROPYL HYDROXYSULTAINE	68139-30-0	NA	268-761-3	≤ 10.0	NA	NA	NF	NF	NF	NA	NA	NA	
SODIUM LAURYL SULFOACETATE	1847-58-1	NA	217-431-7	≤ 10.0	NA	NA	NF	NF	NF	NA	NA	NA	
COCAMIDE MEA	68140-00-1	NA	268-770-2	≤ 10.0	NA	NA	NF	NF	NF	NA	NA	NA	
COCONUT OIL	8001-31-8	GG6040000	232-282-8	NA	NA	NA	NF	NF	NF	NA	NA	NA	
SILK AMINO ACIDS	NA	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
HYDROLYZED KERATIN	69430-36-0	NA	274-001-1	NA	NA	NA	NF	NF	NF	NA	NA	NA	
FRAGRANCE (PARFUM) *	NA	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
COCONUT (COCUS NUCIFERA) EXTRACT	8001-31-8	GG6040000	232-282-8	NA	NA	NA	NF	NF	NF	NA	NA	NA	
SODIUM LAUROYL LACTYLATE	NA	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
GLYCOL DISTEARATE	9005-08-7	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
BENZOPHENONE-3	131-57-7	NA	205-031-5	NA	NA	NA	NF	NF	NF	NA	NA	NA	
PANTHENOL	16485-10-2	NA	240-540-6	NA	NA	NA	NF	NF	NF	NA	NA	NA	
TRIDECETH-12	24938-91-8	NA	607-463-3	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CYCLOPENTASILOXANE	541-02-6	NA	208-764-9	NA	NA	NA	NF	NF	NF	NA	NA	NA	
C <sub>12-13</sub> PARETH 23	66455-14-9	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
C <sub>12-13</sub> PARETH-3	66455-14-9	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
POLYQUATERNIUM-10	68610-92-4	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
SODIUM PCA	28874-51-3	TW4000000	249-277-1	NA	NA	NA	NF	NF	NF	NA	NA	NA	
QUATERNIUM-80	134737-05-6	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CITRIC ACID	77-92-9	GE7350000	201-069-1	NA	NA	NA	NF	NF	NF	NA	NA	NA	
PHENOXYETHANOL	122-99-6	KM0350000	204-589-7	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CAPRYLYL GLYCOL	1117-86-8	NA	214-254-7	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CHLORPHENESIN	104-29-0	NA	203-192-6	NA	NA	NA	NF	NF	NF	NA	NA	NA	
AMODIMETHICONE	NA	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CETRIMONIUM CHLORIDE	112-02-7	NA	203-928-1	NA	NA	NA	NF	NF	NF	NA	NA	NA	
<b>* FRAGRANCE MAY CONTAIN ONE OF MORE OF FOLLOWING ALLERGENS</b>				NA									
ALPHA-ISOMETHYL IONONE	127-51-5	NA	204-846-3	NA	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
BENZYL ALCOHOL	100-51-6	NA	202-859-9	NA	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
BENZYL BENZOATE	120-51-4	NA	204-402-9	NA	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
BUTYPHENYL METHYLPROPIONAL	80-54-6	MW48950000	201-289-8	NA	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
CITRAL	5392-40-5	RG5075000	226-394-6	NA	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
CITRONELLOL	106-22-9	RH3400000	203-375-0	NA	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
COUMARIN	91-64-5	RG5075000	202-086-7	NA	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
GERANIOL	106-24-1	RG5830000	203-377-1	NA	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
HEXYL CINNAMAL	101-86-0	GD6560000	202-983-3	NA	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
HYDROXYISOHEXYL 3-CYCLO-HEXENE CARBOXALDELYDE	31906-04-4	NA	250-863-4	NA	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
HYDROXYISOHEXYL 3-4-CYCLO-HEXENE CARBOXALDELYDE	130066-44-3	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
LIMONENE	5989-27-5	GW6360000	227-813-5	NA	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
LINALOOL	78-70-6	NA	201-134-4	NA	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN

## 4. FIRST AID MEASURES

4.1	First Aid:	<p><b>INGESTION:</b> DO NOT INDUCE VOMITING. Contact ChemTrec at +1 (703) 527-3887 or the nearest Poison Control Center +1 (800) 222-2222 or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.</p> <p><b>EYES:</b> If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. If irritation persists, seek medical attention.</p> <p><b>SKIN:</b> Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned.</p> <p><b>INHALATION:</b> Remove victim to fresh air at once.</p>											
4.2	Medical Conditions Aggravated by Exposure:	None reported by the manufacturer.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #0000FF; color: white; text-align: center;"><b>HEALTH</b></td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #FF0000; color: white; text-align: center;"><b>FLAMMABILITY</b></td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #FFA500; text-align: center;"><b>PHYSICAL HAZARDS</b></td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: center;"><b>PROTECTIVE EQUIPMENT</b></td> <td style="text-align: center;">A</td> </tr> <tr> <td style="text-align: center;">EYES</td> <td></td> </tr> </table>	<b>HEALTH</b>	1	<b>FLAMMABILITY</b>	1	<b>PHYSICAL HAZARDS</b>	0	<b>PROTECTIVE EQUIPMENT</b>	A	EYES	
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<b>FLAMMABILITY</b>	1												
<b>PHYSICAL HAZARDS</b>	0												
<b>PROTECTIVE EQUIPMENT</b>	A												
EYES													

## 5. FIREFIGHTING MEASURES

5.1	Flashpoint & Method:	NA			
5.2	Autoignition Temperature:	NA			
5.3	Flammability Limits:	Lower Explosive Limit (LEL):	NA	Upper Explosive Limit (UEL):	NA
5.4	Fire & Explosion Hazards:	When involved in a fire, this product may decompose to form toxic gases (e.g., CO, CO <sub>2</sub> , NO <sub>x</sub> and SO <sub>x</sub> ).			
5.5	Extinguishing Methods:	Water Fog, Foam, Dry Chemical, CO <sub>2</sub>			
5.6	Firefighting Procedures:	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 fire-exposed surfaces and to protect personal. Fight fire upwind. 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:	<p>Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment.</p> <p>For <u>small spills</u> (e.g., &lt; 1 gallon) wear appropriate personal protective equipment (e.g., goggles, gloves). 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. Remove any contaminated clothing and wash thoroughly before reuse.</p> <p>For <u>spills ≥ 1 gallon</u>, deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Transfer liquid to containers for recovery or disposal and solid absorbent material to separate containers for proper disposal. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.</p>
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## 7. HANDLING & STORAGE INFORMATION

7.1	Work & Hygiene Practices: <b>Do not eat, drink, or smoke while handling this product.</b>
7.2	Storage & Handling: <b>Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans). Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. Keep away from incompatible materials listed in Section 10.</b>
7.3	Special Precautions: <b>Spilled material may present a slipping hazard if left unattended. Clean all spills promptly.</b>

## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1	Ventilation & Engineering Controls: <b>Use with adequate ventilation (e.g., open doors and windows, local exhaust ventilation). Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station). Use in a chemical fume hood when working with large quantities of product and provide adequate ventilation (e.g., local exhaust ventilation, fans).</b>
8.2	Respiratory Protection: <b>No special respiratory protection is required under typical circumstances of use or handling. In instances where vapors or sprays 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.</b>
8.3	Eye Protection: <b>Avoid eye contact. Safety glasses with side shields should be used when handling large quantities (e.g., ≥ 1 gallon) of this product.</b>
8.4	Hand Protection: <b>None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. When handling large quantities (e.g., ≥ 1 gallon), wear rubber or impervious plastic gloves.</b>
8.5	Body Protection: <b>No apron required when handling small quantities. When handling large quantities (e.g., ≥ 1 gallon), eye wash stations should be available.</b>

## 9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Density:	<b>1.010 – 1.070 @ 20 °C (68 °F)</b>
9.2	Boiling Point:	<b>NA</b>
9.3	Melting Point:	<b>NA</b>
9.4	Evaporation Rate:	<b>NA</b>
9.5	Vapor Pressure:	<b>NA</b>
9.6	Molecular Weight:	<b>NA</b>
9.7	Appearance & Color:	<b>Thick, white, opaque liquid</b>
9.8	Odor Threshold:	<b>Tropical guava odor</b>
9.9	Solubility:	<b>Soluble</b>
9.10	pH	<b>7.5-8.5</b>
9.11	Viscosity:	<b>2,500 – 5,500 CpS</b>
9.12	Other Information:	<b>Complies with Federal and State regulations for VOC content.</b>

## 10. STABILITY & REACTIVITY

10.1	Stability: <b>This product is stable.</b>
10.2	Hazardous Decomposition Products: <b>Oxides of carbon (CO, CO<sub>2</sub>), nitrogen (NO<sub>x</sub>) and sulfur (SO<sub>x</sub>)</b>
10.3	Hazardous Polymerization: <b>Will not occur.</b>
10.4	Conditions to Avoid: <b>Open flames, sparks and high heat.</b>
10.5	Incompatible Substances: <b>None known.</b>

## 11. TOXICOLOGICAL INFORMATION

11.1	Toxicity Data: <b>The product has not been tested for specific toxicity data.</b>
11.2	Acute Toxicity: <b>See section 2.5</b>
11.3	Chronic Toxicity: <b>See section 2.6</b>
11.4	Suspected Carcinogen: <b>No</b>
11.5	Reproductive Toxicity: <b>This product is not reported to produce reproductive toxicity in humans.</b>
	Mutagenicity: <b>This product is not reported to produce mutagenic effects in humans.</b>
	Embryotoxicity: <b>This product is not reported to produce embryotoxic effects in humans.</b>
	Teratogenicity: <b>This product is not reported to produce teratogenic effects in humans.</b>
	Reproductive Toxicity: <b>This product is not reported to produce reproductive effects in humans.</b>
11.6	Irritancy of Product: <b>See Section 2.3</b>
11.7	Biological Exposure Indices: <b>NE</b>
11.8	Physician Recommendations: <b>Treat symptomatically.</b>

## 12. ECOLOGICAL INFORMATION

12.1	Environmental Stability: <b>Specific data regarding the finished product is not available. However, the product ingredients are expected to be safe for the environment at concentrations predicted under normal use and accidental spill scenarios.</b>
12.2	Effects on Plants & Animals: <b>Specific data regarding the finished product is not available. Complete information regarding the product ingredients is not yet available.</b>
12.3	Effects on Aquatic Life: <b>Specific data regarding the finished product is not available. However, the product ingredients are expected to be safe for the environment at concentrations predicted under normal use and accidental spill scenarios.</b>

## 13. DISPOSAL CONSIDERATIONS

13.1	Waste Disposal: <b>Products covered by this MSDS, in their original form, when disposed as waste, are considered non hazardous waste according to Federal RCRA regulations (40 CFR 261). Dispose of in accordance with federal, state and local regulations.</b>
13.2	Special Considerations: <b>NA</b>

## 14. TRANSPORTATION INFORMATION

The basic description (proper shipping name, hazard class & division, ID Number, 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): <b>NOT REGULATED</b>	
14.2	IATA (AIR): <b>NOT REGULATED</b>	
14.3	IMDG (OCN): <b>NOT REGULATED</b>	
14.4	TDGR (Canadian GND): <b>NOT REGULATED</b>	
14.5	ADR/RID (EU): <b>NOT REGULATED</b>	
14.6	SCT (Mexico): <b>NOT REGULATED</b>	
14.7	ADGR (AUS): <b>NOT REGULATED</b>	

## 15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements: <b>NA</b>	
15.2	SARA Threshold Planning Quantity: <b>NA</b>	
15.3	TSCA Inventory Status: <b>All chemical substances of this product are listed on the TSCA inventory or are otherwise exempted from inventory status.</b>	
15.4	CERCLA Reportable Quantity (RQ) : <b>NA</b>	
15.5	Other Federal Requirements: <b>This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics).</b>	
15.6	Other Canadian Regulations: <b>This product has been classified according to the hazard criteria of the CPR and the MSDS 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.</b>	
15.7	State Regulatory Information: <b>No components of this product are listed on the California Proposition 65 lists. Benzyl Alcohol is found on the following state criteria lists: Florida Toxic Substances List, Massachusetts Hazardous Substances List, Minnesota Hazardous Substances List, Pennsylvania Hazardous Substances List. No other components of this product are listed on any of the following state criteria lists: Florida Toxic Substances List, Massachusetts Hazardous Substances List, Minnesota Hazardous Substances List, Pennsylvania Hazardous Substances List, New Jersey Right-to-Know List, New York Hazardous Substances List, Rhode Island Hazardous Substances List, Washington Permissible Exposures List, Wisconsin Hazardous Substances List.</b>	

## 15. REGULATORY INFORMATION – cont'd

15.8 67/548/EEC (European Union) and Other Requirements:  
**The primary components of this product are not listed in Annex I of EU Directive 67/548/EEC.**  
**Hazard Statements (H): None.**  
**Precautionary Statements (P): P102 – Keep out of reach of children. P270 - Do not eat, drink, or smoke when using this product. P305+P351+P338 – IF IN EYES - Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.**

## 16. OTHER INFORMATION

16.1 Other Information:  
**For external use only. Use only as directed. Discontinue use immediately if irritation develops.**

16.2 Terms & Definitions:  
**See last page of this MSDS.**

16.3 Disclaimer:  
**This Material 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 & ILU Beauty or its affiliates' knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are 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:  
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 http://www.shipmate.com**





## DEFINITION OF TERMS

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

### GENERAL INFORMATION:

<b>CAS No.</b>	Chemical Abstract Service Number
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### EXPOSURE LIMITS IN AIR:

<b>ACGIH</b>	American Conference on Governmental Industrial Hygienists
<b>TLV</b>	Threshold Limit Value
<b>OSHA</b>	U.S. Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>IDLH</b>	Immediately Dangerous to Life and Health

### FIRST AID MEASURES:

<b>CPR</b>	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:

<b>0</b>	Minimal Hazard
<b>1</b>	Slight Hazard
<b>2</b>	Moderate Hazard
<b>3</b>	Severe Hazard
<b>4</b>	Extreme Hazard

<b>HEALTH</b>
<b>FLAMMABILITY</b>
<b>PHYSICAL HAZARDS</b>
<b>PERSONAL PROTECTION</b>

### PERSONAL PROTECTION RATINGS:

<b>A</b>	
<b>B</b>	
<b>C</b>	
<b>D</b>	
<b>E</b>	
<b>F</b>	

<b>G</b>	
<b>H</b>	
<b>I</b>	
<b>J</b>	
<b>K</b>	
<b>X</b>	Consult your supervisor or SOPs for special handling directions.

Safety Glasses	Splash Goggles	Face Shield & Eye Protection	Gloves
Boots	Synthetic Apron	Full Suit	Dust Respirator
Full Face Respirator	Dust & Vapor Half-Mask Respirator	Full Face Respirator	Airline Hood/Mask or SCBA

Note: the dotted circle indicates that this respiratory protective equipment is required for high concentrations or for large volume spills or releases of product.

### OTHER STANDARD ABBREVIATIONS:

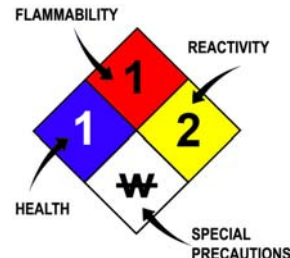
<b>NA</b>	Not Available
<b>NR</b>	No Results
<b>NE</b>	Not Established
<b>ND</b>	Not Determined
<b>ML</b>	Maximum Limit
<b>SCBA</b>	Self-Contained Breathing Apparatus

### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

<b>FLAMMABILITY LIMITS IN AIR:</b>	
<b>Autoignition Temperature</b>	Minimum temperature required to initiate combustion in air with no other source of ignition
<b>LEL</b>	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source
<b>UEL</b>	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:

<b>0</b>	Minimal Hazard
<b>1</b>	Slight Hazard
<b>2</b>	Moderate Hazard
<b>3</b>	Severe Hazard
<b>4</b>	Extreme Hazard
<b>ACD</b>	Acidic
<b>ALK</b>	Alkaline
<b>COR</b>	Corrosive
<b>W</b>	Use No Water
<b>OX</b>	Oxidizer
<b>TREFOIL</b>	Radioactive



### TOXICOLOGICAL INFORMATION:

<b>LD<sub>50</sub></b>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
<b>LC<sub>50</sub></b>	Lethal concentration (gases) which kills 50% of the exposed animal
<b>ppm</b>	Concentration expressed in parts of material per million parts
<b>TD<sub>01</sub></b>	Lowest dose to cause a symptom
<b>TCLo</b>	Lowest concentration to cause a symptom
<b>TD<sub>01</sub>, LD<sub>01</sub>, &amp; LD<sub>01</sub> or TC, TC<sub>01</sub>, LC<sub>01</sub>, &amp; LC<sub>01</sub></b>	Lowest dose (or concentration) to cause lethal or toxic effects
<b>IARC</b>	International Agency for Research on Cancer
<b>NTP</b>	National Toxicology Program
<b>RTECS</b>	Registry of Toxic Effects of Chemical Substances
<b>BCF</b>	Bioconcentration Factor
<b>TL<sub>m</sub></b>	Median threshold limit
<b>log K<sub>ow</sub> or log K<sub>oc</sub></b>	Coefficient of Oil/Water Distribution

### REGULATORY INFORMATION:

<b>WHMIS</b>	Canadian Workplace Hazardous Material Information System
<b>DOT</b>	U.S. Department of Transportation
<b>TC</b>	Transport Canada
<b>EPA</b>	U.S. Environmental Protection Agency
<b>DSL</b>	Canadian Domestic Substance List
<b>NDSL</b>	Canadian Non-Domestic Substance List
<b>PSL</b>	Canadian Priority Substances List
<b>TSCA</b>	U.S. Toxic Substance Control Act
<b>EU</b>	European Union (European Union Directive 67/548/EEC)
<b>WGK</b>	Wassergefährdungsklassen (German Water Hazard Class)

### WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

<b>A</b>	<b>B</b>	<b>C</b>	<b>D1</b>	<b>D2</b>	<b>D3</b>	<b>E</b>	<b>F</b>
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

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

<b>C</b>	<b>E</b>	<b>F</b>	<b>N</b>	<b>O</b>	<b>T+</b>	<b>Xi</b>	<b>Xn</b>
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

### CLP/GHS (1272/2008/EC) PICTOGRAMS:

<b>GH01</b>	<b>GH02</b>	<b>GH03</b>	<b>GH04</b>	<b>GH05</b>	<b>GH06</b>	<b>GH07</b>	<b>GH08</b>	<b>GH09</b>
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful/Irritating	Health Hazard	Environment