

1. PRODUCT IDENTIFICATION

1.1	Product Name: TRISSOLA HYDRATING CONDITIONER
1.2	Chemical Name: Aqueous Solution
1.3	Synonyms: ED-TTDC001
1.4	Trade Names: Trissola Hydrating Conditioner
1.5	Product Use: Hair Conditioner - Professional or Consumer Use
1.6	Distributor's Name: Envy Professional
1.7	Distributor's Address: 4315 Woodman Ave., Sherman Oaks, CA 91423 USA
1.8	Emergency Phone: CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-3887
1.9	Business Phone: +1 (877) 408-2234 or +1 (818) 905-5999

2. HAZARD IDENTIFICATION

2.1	Hazard Identification: 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. 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.	
2.2	Routes of Entry:	Inhalation: NO Absorption: YES Ingestion: YES
2.3	Effects of Exposure:	INGESTION: If product is swallowed, may cause nausea, vomiting and/or diarrhea. EYES: Moderately irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering. SKIN: The product may cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals. INHALATION: None expected.
2.4	Symptoms of Overexposure:	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.
2.5	Acute Health Effects:	Moderate irritation to eyes. Moderate irritation to skin near affected areas.
2.6	Chronic Health Effects:	No harmful or chronic health effects are expected to occur from a single accidental ingestion.
2.7	Target Organs:	Eyes

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.

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

MSDS Revision: 1.1

MSDS Revision Date: 08/01/2012

3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m ³)								OTHER
					ACGIH ppm		NOHSC ppm			OSHA ppm			
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
WATER (AQUA)	7732-18-5	ZC0110000	231-791-2	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CETEARYL ALCOHOL	8005-44-5	NA	267-008-6	NA	NA	NA	NF	NF	NF	NA	NA	NA	
PPG-3 BENZYL ETHER MYRISTATE	642443-86-5	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
STEARAMIDOPROPYL DIMETHYLAMINE	7651-02-7	NA	231-609-1	NA	NA	NA	NF	NF	NF	NA	NA	NA	
OCTYLDODECYL RICINOLEATE	79490-62-3	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
BEHENTRIMONIUM METHOSULFATE	81646-13-1	NA	279-791-1	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	
GLYCERIN	56-81-5	MA805000	200-289-5	NA	10	NA	NF	NF	NF	15	NA	NA	RESP FRAC
HYDROLYZED VEGETABLE PROTEIN PG-PROPYL SILANETRIOL	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
CINNAMIDOPROPYLTRIMONIUM CHLORIDE	NA	NA	NA	NA	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	
AMODIMETHICONE	NA	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	
COCONUT (COCUS NUCIFERA) EXTRACT	8001-31-8	GG6040000	232-282-8	NA	NA	NA	NF	NF	NF	NA	NA	NA	
GLYCYRRHIZA GLABRA (LICORICE) ROOT EXTRACT	84775-66-6	NA	283-895-2	NA	NA	NA	NF	NF	NF	NA	NA	NA	
ACHILLEA MILLEFOLIUM EXTRACT	84082-83-7	NA	282-030-6	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	
ARGININE	74-79-3	CF1934200	200-811-1	NA	NA	NA	NF	NF	NF	NA	NA	NA	
ASPARTIC ACID	56-84-8	NA	200-291-6	NA	NA	NA	NF	NF	NF	NA	NA	NA	
PCA	98-79-3	TW3710000	202-700-3	NA	NA	NA	NF	NF	NF	NA	NA	NA	
GLYCINE	56-40-6	MB7600000	200-272-2	NA	NA	NA	NF	NF	NF	NA	NA	NA	
ALANINE	302-72-7	AY2980000	206-126-4	NA	NA	NA	NF	NF	NF	NA	NA	NA	
SERINE	302-84-1	NA	206-130-6	NA	NA	NA	NF	NF	NF	NA	NA	NA	
VALINE	516-06-3	YV9361000	208-220-0	NA	NA	NA	NF	NF	NF	NA	NA	NA	
SODIUM LACTATE	72-17-3	NA	200-772-0	NA	NA	NA	NF	NF	NF	NA	NA	NA	
HYDROXYPROPYL GUAR HYDROXYPROPYLTRIMONIUM CHLORIDE	71329-50-5	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
DIVINYLDIMETHICONE/ DIMETHICONE COPOLYMER	NA	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
POLYQUATERNIUM-55	306769-73-3	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
POLYQUATERNIUM-37	26161-33-1	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
PPG-1 TRIDECETH-6	NA	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
C ₁₂₋₁₃ PARETH 23	66455-14-9	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
C ₁₂₋₁₃ PARETH-3	66455-14-9	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
C ₁₁₋₁₅ PARETH-7	68131-40-8	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
LAURETH-9	LAURETH-9	NA	NA	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	
PEG-90M	25322-68-3	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	


3. COMPOSITION & INGREDIENT INFORMATION – cont'd

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m ³)								
					ACGIH		NOHSC			OSHA			OTHER
					ppm		ppm			ppm			
TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH						
DISODIUM EDTA	139-33-3	AH4375000	205-358-3	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	
ETHYLHEXYLGLYCERIN	70445-33-9	NA	NA	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	
* FRAGRANCE MAY CONTAIN ONE OF MORE OF FOLLOWING ALLERGENS				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>INGESTION: 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>EYES: 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>SKIN: 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>INHALATION: 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%;"> <tr> <td style="background-color: #0000FF; color: white;">HEALTH</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="background-color: #FF0000; color: white;">FLAMMABILITY</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #FFA500;">PHYSICAL HAZARDS</td> <td style="text-align: center;">0</td> </tr> <tr> <td>PROTECTIVE EQUIPMENT</td> <td style="text-align: center;">A</td> </tr> <tr> <td>EYES</td> <td></td> </tr> </table>	HEALTH	0	FLAMMABILITY	1	PHYSICAL HAZARDS	0	PROTECTIVE EQUIPMENT	A	EYES	
HEALTH	0												
FLAMMABILITY	1												
PHYSICAL HAZARDS	0												
PROTECTIVE EQUIPMENT	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, CO₂, NO_x and SO_x).				
5.5	Extinguishing Methods: Water Fog, Foam, Dry Chemical, CO₂				
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: Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. For <u>small spills</u> (e.g., < 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. 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.
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7. HANDLING & STORAGE INFORMATION

7.1	Work & Hygiene Practices: Do not eat, drink, or smoke while handling this product.
7.2	Storage & Handling: 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.
7.3	Special Precautions: Spilled material may present a slipping hazard if left unattended. Clean all spills promptly.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1	Ventilation & Engineering Controls: 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).
8.2	Respiratory Protection: 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.
8.3	Eye Protection: Avoid eye contact. Safety glasses with side shields should be used when handling large quantities (e.g., ≥ 1 gallon) of this product.
8.4	Hand Protection: 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.
8.5	Body Protection: No apron required when handling small quantities. When handling large quantities (e.g., ≥ 1 gallon), eye wash stations should be available.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Density:	0.970 – 0.995 @ 20 °C (68 °F)
9.2	Boiling Point:	NA
9.3	Melting Point:	NA
9.4	Evaporation Rate:	NA
9.5	Vapor Pressure:	NA
9.6	Molecular Weight:	NA
9.7	Appearance & Color:	Opaque, viscous, creamy conditioner
9.8	Odor Threshold:	Sweet, fruity odor
9.9	Solubility:	Soluble
9.10	pH	3.5-4.5
9.11	Viscosity:	NA
9.12	Other Information:	Complies with Federal and State regulations for VOC content.

10. STABILITY & REACTIVITY

10.1	Stability: This product is stable.
10.2	Hazardous Decomposition Products: Oxides of carbon (CO, CO₂), nitrogen (NO_x) and sulfur (SO_x)
10.3	Hazardous Polymerization: Will not occur.
10.4	Conditions to Avoid: Open flames, sparks and high heat.
10.5	Incompatible Substances: None known.

11. TOXICOLOGICAL INFORMATION

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

12. ECOLOGICAL INFORMATION

12.1	Environmental Stability: 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.
12.2	Effects on Plants & Animals: Specific data regarding the finished product is not available. Complete information regarding the product ingredients is not yet available.
12.3	Effects on Aquatic Life: 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.

13. DISPOSAL CONSIDERATIONS

13.1	Waste Disposal: 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.
13.2	Special Considerations: NA

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): NOT REGULATED	
14.2	IATA (AIR): NOT REGULATED	
14.3	IMDG (OCN): NOT REGULATED	
14.4	TDGR (Canadian GND): NOT REGULATED	
14.5	ADR/RID (EU): NOT REGULATED	
14.6	SCT (Mexico): NOT REGULATED	
14.7	ADGR (AUS): NOT REGULATED	

15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements: NA	
15.2	SARA Threshold Planning Quantity: NA	
15.3	TSCA Inventory Status: All chemical substances of this product are listed on the TSCA inventory or are otherwise exempted from inventory status.	
15.4	CERCLA Reportable Quantity (RQ) : NA	
15.5	Other Federal Requirements: This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics).	
15.6	Other Canadian Regulations: This product has been classified according to the hazard criteria of the 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.	
15.7	State Regulatory Information: 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.	
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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Tel: +1 (818) 905-5999
info@cadiveuusa.com**



16.5 Prepared by:

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

MSDS Revision: 1.1

MSDS Revision Date: 08/01/2012

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:

CAS No.	Chemical Abstract Service Number
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EXPOSURE LIMITS IN AIR:

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

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	
B	
C	
D	
E	
F	

G	
H	
I	
J	
K	
X	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:

NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
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 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:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD ₀₁	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD ₀₁ , LD ₀₁ , & LD ₀₁ or TC, TC ₀₁ , LC ₀₁ , & LC ₀₁	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
T _{lm}	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:

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

EC (67/548/EEC) INFORMATION:

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

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

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