


1. PRODUCT IDENTIFICATION

1.1	Product Name: TRISSOLA TRUE KERATIN SOLUTION
1.2	Chemical Name: Aqueous Solution
1.3	Synonyms: ED-TTKS15
1.4	Trade Names: Trissola True Keratin Solution
1.5	Product Use: Hair Conditioner - Professional Use Only
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	<p>Hazard Identification:</p> <p>This product is classified as a HAZARDOUS SUBSTANCE but not as DANGEROUS GOODS according to the classification criteria of [NOHSC: 1088 (2004)] and ADG Code (Australia). WARNING! May cause an allergic skin reaction. Product releases formaldehyde (gas), a suspected carcinogen.</p> <p>Hazard Statements (H): H317 – May cause an allergic skin reaction. Product releases formaldehyde (gas), a suspected carcinogen.</p> <p>Precautionary Statements (P): P201 – Obtain special instructions before use. P202 – Do not handle until all safety precautions have been read and understood. P261 – Avoid breathing dust/fume/gas/mist/vapours/spray. P272 – Contaminated work clothing should not be allowed out of the workplace. P280 – Wear protective gloves/protective clothing/eye protection/face protection. P281 – Use personal protective equipment as required. P302+P352 – IF ON SKIN: Wash with soap and water. P308+P313 - IF exposed or concerned: Get medical advice/attention. P333+P313 – If skin irritation or a rash occurs: Get medical advice/attention. P321 – Specific treatment (see section 4.1 of this Safety Data Sheet). P363 – Wash contaminated clothing before reuse. P405 – Store locked up. P501 – Dispose of contents/container to licensed, authorized treatment, storage and disposal facility (see Section 13.1 of this Safety Data Sheet).</p>	
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2.2	Routes of Entry:	Inhalation:	YES	Absorption:	YES	Ingestion:	YES
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2.3	Effects of Exposure:
	<p>INGESTION: If product is swallowed, may cause nausea, vomiting and/or diarrhea.</p> <p>EYES: Direct contact may cause mild irritation. 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: May cause irritation and sensitization of the respiratory tract, especially if proper ventilation is not used or otherwise used improperly, e.g. excessive amounts of product are applied. When exposed to high heat (e.g., flat iron), may cause sore throat, coughing, and shortness of breath.</p>

2. HAZARD IDENTIFICATION – cont'd

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 can 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. Frequent or prolonged exposure to product may cause hypersensitivity leading to contact dermatitis. Repeated or prolonged skin contact with product may cause an allergic reaction in some people. Proper ventilation must be used to ensure the OSHA TLV's are not exceeded. Avoid prolonged contact to concentrated vapors.
2.7	Target Organs: Respiratory System, Skin, Eyes.

3. COMPOSITION & INGREDIENT INFORMATION

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	
WATER (AQUA)	7732-18-5	ZC0110000	231-791-2	60-100	NA	NA	NF	NF	NF	NA	NA	NA	
CETEARYL ALCOHOL	8005-44-5	NA	267-008-6	≤ 10.0	NA	NA	NF	NF	NF	NA	NA	NA	
BEHENTRIMONIUM METHOSULFATE	81646-13-1	NA	279-791-1	≤ 10.0	NA	NA	NF	NF	NF	NA	NA	NA	
METHYLENE GLYCOL	463-57-0	NA	207-339-5	< 3.0	5.0	NA	1.0	2.0	NF	0.75	2.0	NA	0.1 NIOSH
POLYQUATERNIUM-7	26590-05-6	NA	NA	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
LANOLIN	8006-54-0	NA	232-384-6	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
COCONUT OIL	8001-31-8	GG6040000	232-282-8	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
POLYQUATERNIUM-55	306769-73-3	NA	NA	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
HYDROLYZED KERATIN	69430-36-0	NA	274-001-1	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
FRAGRANCE (PARFUM) *	NA	NA	NA	1-5	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
CYCLOPENTASILOXANE	541-02-6	NA	208-764-9	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
SODIUM PCA	28874-51-3	TW4000000	249-277-1	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
ARGININE	74-79-3	CF1934200	200-811-1	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
ASPARTIC ACID	56-84-8	NA	200-291-6	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
PCA	98-79-3	TW3710000	202-700-3	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
GLYCINE	56-40-6	MB7600000	200-272-2	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
ALANINE	302-72-7	AY2980000	206-126-4	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
SERINE	302-84-1	NA	206-130-6	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
VALINE	516-06-3	YV9361000	208-220-0	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
SODIUM LACTATE	72-17-3	NA	200-772-0	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
ARGININE HCL	1119-34-2	NA	214-275-1	0.1-1	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	
UREA	57-13-6	NA	200-315-5	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
DISODIUM EDTA	139-33-3	AH4375000	205-358-3	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	

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	
* 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:	<p>Pre-existing dermatitis, other skin conditions, and pre-existing skin or eye disorders. Overexposure to product may cause lung damage and aggravate pulmonary conditions. Do not use on broken skin or irritated areas. In some individuals contact with skin may aggravate skin diseases such as eczema and contact dermatitis.</p>															
		<table border="1"> <tr> <td colspan="2">HEALTH</td> <td>1</td> </tr> <tr> <td colspan="2">FLAMMABILITY</td> <td>0</td> </tr> <tr> <td colspan="2">PHYSICAL HAZARDS</td> <td>0</td> </tr> <tr> <td colspan="2">PROTECTIVE EQUIPMENT</td> <td>C</td> </tr> <tr> <td>EYES</td> <td>SKIN</td> <td></td> </tr> </table>	HEALTH		1	FLAMMABILITY		0	PHYSICAL HAZARDS		0	PROTECTIVE EQUIPMENT		C	EYES	SKIN	
HEALTH		1															
FLAMMABILITY		0															
PHYSICAL HAZARDS		0															
PROTECTIVE EQUIPMENT		C															
EYES	SKIN																

5. FIREFIGHTING MEASURES

5.1	Flashpoint & Method: This product is not flammable.
5.2	Autoignition Temperature: NA
5.3	Flammability Limits: Lower Explosive Limit (LEL): NE Upper Explosive Limit (UEL): NE
5.4	Fire & Explosion Hazards: When involved in a fire, this product may decompose to form toxic gases (e.g., CO, CO₂, NO_x, SO_x and formaldehyde).
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 small spills (e.g., <1 gallon (3.785 liters)) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows). 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 spills ≥ 1 gallon (3.785 liters), deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Transfer product 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.
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7. HANDLING & STORAGE INFORMATION

7.1	Work & Hygiene Practices: Avoid eye contact. Avoid breathing vapors. Wear protective gloves and avoid direct skin contact whenever possible. Wash hands thoroughly after using this product and before eating, drinking, or smoking. Keep away from foodstuffs and beverages.
7.2	Storage & Handling: Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation is preferred, fans, open doors and windows). Do not store in damaged or unmarked containers or storage devices. Keep away from heat and direct sunlight. Keep containers securely closed when not in use.
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., local exhaust ventilation is preferred, fans, open doors and windows). 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, however local source capture exhaust is recommended. 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:	0.980 – 1.100 @ 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:	Thick, white, opaque conditioner
9.8	Odor Threshold:	Sweet, fruity odor
9.9	Solubility:	Soluble
9.10	pH	2.5-3.5
9.11	Viscosity:	3,000 – 6,000 CpS
9.12	Other Information:	Complies with Federal and State regulations for VOC content.

10. STABILITY & REACTIVITY

10.1	Stability: This product is stable when stored in a cool dry location out of direct sunlight and away from other sources of heat.
10.2	Hazardous Decomposition Products: Oxides of carbon (CO, CO₂) and sulfur (SO₂), and formaldehyde gas.
10.3	Hazardous Polymerization: Will not occur.
10.4	Conditions to Avoid: Open flames, sparks, high heat, direct sunlight and close proximity to incompatible substances.
10.5	Incompatible Substances: High temperatures, sources of heat and direct sunlight.

11. TOXICOLOGICAL INFORMATION

11.1	Toxicity Data: This product has not been tested on animals to obtain toxicological data. There are toxicology data for the components of this product, which are found in the scientific literature. These data have not been presented in this document.
11.2	Acute Toxicity: See section 2.5
11.3	Chronic Toxicity: See section 2.6
11.4	Suspected Carcinogen: Product releases formaldehyde (gas), a suspected carcinogen, which is listed as: OSHA: Carcinogen; NTP: Known Human Carcinogen (NTP 12th Report – June 10, 2011); IARC: Human Sufficient Evidence, Animal Sufficient Evidence, Group 1; ACGIH: A2 -Suspected Human Carcinogen; EC: Category 3
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: The following statements refer to the environmental fate of <u>methylene glycol</u>. When released into the soil, this material is expected to leach into groundwater. When released into water, this material is expected to readily biodegrade. When released into water, this material is not expected to evaporate significantly. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals.
12.2	Effects on Plants & Animals: There is no specific data available for this product.
12.3	Effects on Aquatic Life: Fish Toxicity: 4960 µg/L 96 hour(s) LC₅₀ (Mortality) Striped bass (<i>Morone saxatilis</i>) Invertebrate Toxicity: 14000 µg/L 48 hour(s) EC₅₀ (Physiological) Water flea (<i>Daphnia magna</i>) Algal Toxicity: 4500 µg/L 48 hour(s) (Population Growth) Cryptomonad (<i>Chilomonas paramecium</i>) Fate and Transport: K_{ow}: 151.36 (log = 2.18) (estimated from water solubility); K_{oc}: 481.95 (log = 2.69) (estimated from water solubility)

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: This product contains methylene glycol a substance subject to SARA 313 reporting requirements.	
15.2	SARA Threshold Planning Quantity: Formaldehyde: 226.8 kg (500 lbs) TPQ – SARA 302	
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 (RO) : Formaldehyde: 45.4 kg (100 lbs) - SARA 304	
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: <u>Methylene Glycol</u> is on the following state criteria lists: California, New Jersey, Pennsylvania, Minnesota, and Massachusetts. <u>Benzyl Alcohol</u> is found on the following state criteria lists: Florida Toxic Substances List, Massachusetts Hazardous Substances List, Minnesota Hazardous Substances List, Pennsylvania Hazardous Substances List. When used as directed, this product releases formaldehyde gas. <u>Formaldehyde (gas)</u> is listed on the following state criteria lists: California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65); Minnesota Hazardous Substances List; Pennsylvania Right-To-Know List; Rhode Island Right-To-Know List. <u>California Proposition 65 Warning</u>: WARNING: Use of Trissola True Keratin Solution as directed will expose you to formaldehyde (gas), a chemical known to the State of California to cause cancer. No components of this product are listed on the California Proposition 65 lists.	

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.
Formaldehyde (1 % ≤ C < 5 %) is listed in Annex I of EU Directive 67/548/EEC.
Harmful (Xn). Risk Phrases (R): R40-Limited evidence of a carcinogenic effect. R43 - May cause sensitisation by skin contact.
WARNING! May cause an allergic skin reaction. Product releases formaldehyde (gas), a suspected carcinogen.
Hazard Statements (H): H317 – May cause an allergic skin reaction. Product releases formaldehyde (gas), a suspected carcinogen.
Precautionary Statements (P): P201 – Obtain special instructions before use. P202 – Do not handle until all safety precautions have been read and understood. P261 – Avoid breathing dust/fume/gas/mist/vapours/spray. P272 – Contaminated work clothing should not be allowed out of the workplace. P280 – Wear protective gloves/protective clothing/eye protection/face protection. P281 – Use personal protective equipment as required. P302+P352 – IF ON SKIN: Wash with soap and water. P308+P313 - IF exposed or concerned: Get medical advice/attention. P333+P313 – If skin irritation or a rash occurs: Get medical advice/attention. P321 – Specific treatment (see section 4.1 of this Safety Data Sheet). P363 – Wash contaminated clothing before reuse. P405 – Store locked up. P501 – Dispose of contents/container to licensed, authorized treatment, storage and disposal facility (see Section 13.1 of this Safety Data Sheet).
HazChem Code: None allocated.
Poison Schedule: None allocated.



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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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards MSDS Revision: 1.2 MSDS Revision Date: 09/01/2012

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:

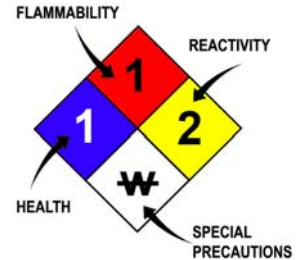
NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

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:

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
TD₀₁	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD₀₁, LD₀₁, & LD₀₁ or TC, TC₀₁, LC₀₁, & 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:

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