### **SAFETY DATA SHEET**

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

SDS Revision: 1.0

SDS Revision Date: 12/17/2018

riepa	aled to OSI IA, ACC, ANSI	I, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 12/17/2018
		4 DDODUCT 0 COMPANY IDENTIFICATION
	1	1. PRODUCT & COMPANY IDENTIFICATION
1.1	Product Name:	OPI ProSpa SKIN CARE HANDS & FEET ADVANCED SOFTENING SOCKS
.2	Chemical Name:	Aqueous Lotion
.3	Synonyms:	NA NA
.4	Trade Names:	AS104, AS105, AS106, AS107, AS108, AS109, AS110, AS111
.5	Product Use:	Professional or Sundry Use Only
.6	Distributor's Name:	OPI Products, Inc.
.7	Distributor's Address:	4500 Park Granada Blvd, Calabasas, CA 91302 USA
.8	Emergency Phone:	CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 16377)
.9	Business Phone / Fax:	Tel: +1 (818) 999-5112
		2. HAZARDS IDENTIFICATION
.1	Hazard Identification:	This product is not classified as a hazardous substance or as dangerous goods according to the classification criteria
		NOHSC: 1008 (2004) and ADG Code (Australia).
		WARNING! MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION.
		Classification: Skin Sens. 1A; Eye Irrit. 2B
.2	Label Elements:	
.2	Laber Liements.	Hazard Statements (H): H317 – May cause an allergic skin reaction. H319 – Causes serious eye irritation.
		Precautionary Statements (P): P261 – Avoid breathing mist/spray. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and
		easy to do. Continue rinsing. P337+P313 – If eye irritation persists: Get medical advice/attention.
		P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention. P321 – Specific
		treatment (See Section 4 First Aid of this SDS).
.3	Other Warnings:	KEEP OUT OF REACH OF CHILDREN.

# 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m²)

			EINECS No. %	EXPOSURE LIMITS IN AIR (mg/m³)									
		RTECS No.		%	ACGIH			NOHSC			OSHA		
					pį	om		ppm			ppm		OTHER
CHEMICAL NAME(S)	CAS No.				TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	
VATER	7732-18-5	NA	231-791-2	60-100	NA	NA	NF	NF	NF	NA	NA	NA	
VATER													
GLYCERIN	56-81-5	MA805000	200-289-5	5-20	10	NA	NF	NF	NF	15	NA	NA	
IYDROGENATED POLYISOBUTENE	40921-86-6	NA	NA	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
JREA	57-13-6	NA	200-315-5	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
DIMETHICONE	63148-62-9	JT6484500	213-915-7	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
CETEARYL ALCOHOL	67762-27-0	NA	267-008-6	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
GLYCERYL STEARATE	31566-31-1	RG19250000	250-705-4	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
PEG-100 STEARATE	9004-99-3	MD0907300	NA	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
BUTYROSPERMUM PARKII (SHEA)	91080-23-8	NA	NA	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
BUTTER	Eye Irrit. 2B; F	1320											
PARFUM (FRAGRANCE)	NA	NA	NA	< 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
CAPRYLIC/CAPRIC FRIGLYCERIDES	73398-61-5	NA	265-724-3	< 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
BETAINE	107-43-7	NA	203-490-6	< 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
CETEARETH-25	68439-49-6	NA	NA	< 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
MACADAMIA TERNIFOLIA SEED OIL	129811-19-4	NA	NA	< 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
PHENOXYETHANOL	122-99-6 Acute Tox. 4 *	KM0350000 ; Eye Irrit. 2; H30	204-589-7 2. H319	< 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
CHLORPHENESIN	104-29-0	TY4260000	203-192-6	< 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
GLYCERYL CAPRYLATE	26402-26-6	NA	247-668-1	< 1.0	NA	NA	NF	NF	NF	NA	NA	NA	

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SDS Revision: 1.0 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision Date: 12/17/2018 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m3) ACGIH NOHSC ppm ppm ppm FS. FS-FS-STEL RTECS No. EINECS No. TI V STEL PEAK PEL IDLH OTHER CHEMICAL NAME(S) CAS No. STEL **TWA** ACRYLATES/C10-30 ALKYL < 1.0 NΑ NA NA NA NA NF NF NF NA NA NA ACRYLATE CROSSPOLYMER NA 201-327-3 81-13-0 < 1.0 NA NA NF NF NF NA NA NA **PANTHENOL** 98-92-0 NA 202-713-4 < 1.0 NA NA NF NF NF NA NA NA NIACINAMIDE 11138-66-2 NF NA 234-394-2 NA NF NF NA NA NA < 1.0 ΑN XANTHAN GUM < 1.0 NA NA NF NF NF NA NA NA ALLERGEN 97-59-6 NA 202-592-8 ALLANTOIN 139-33-3 NA 205-358-3 < 0.1 NA NA NF NF NF NA NA NA DISODIUM EDTA TY2000000 57-55-6 200-338-0 < 0.1 NA NA 474 NF NF NA NA NA PROPYLENE GLYCOL 7695-91-2 GA8747000 231-710-0 < 0.1 NA NA NF NF NF NA NA NA TOCOPHERYL ACETATE GO78775000 204-881-4 2 NA 10 NF NF 10 NA NA 128-37-0 < 0.1 BHT (BUTYLATED HYDROXYTOLUENE) Acute Aq. Tox. 1; Chronic Aq. Tox. 1; H400, H410 (2) NA (10) (2) NIOSH 1310-73-2 WB4900000 215-185-5 0-1 (2) NA (2) NF NF SODIUM HYDROXIDE Skin Corr. 1A; 1; H314 GG6040000 COCOS NUCIFERA (COCONUT) 8001-31-8 232-282-8 < 0.1 NA NA NF NF NF NA NA NA OIL 85507-69-3 NA 287-390-8 < 0.1 NA NA NF NF NF NA NA NA ALOE BARBADENSIS LEAF JUICE 4. FIRST AID MEASURES 4.1 First Aid: If ingested, do not induce vomiting. Drink plenty of water or milk IMMEDIATELY. If the patient is vomiting. Ingestion: continue to offer plenty of 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 and amount of the substance that was swallowed. If product is in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. Open and Eyes: close eyelid(s) to ensure thorough irrigation. If problem persists, consult a physician. Skin: If redness, dryness or other signs of irritation to the skin develop, wash affected skin areas with plenty of warm water and soap. If irritation persists, consult a physician. Inhalation: Remove victim to fresh air at once. 4.2 Effects of Exposure: Ingestion: If product is swallowed, may cause nausea, vomiting and/or diarrhea. Slightly irritating to the eyes. Eyes: May be irritating to skin in some sensitive individuals, especially after prolonged contact. Skin: Inhalation: Inhalation is unlikely; however, vapors of this product may be slightly irritating to some sensitive individuals 4.3 Symptoms of Overexposure Symptoms of overexposure may include redness, itching, and irritation 4.4 Acute Health Effects Redness, itching, and irritation of skin at the site of contact for some sensitive individuals. 4.5 Chronic Health Effects: No chronic health effects are known, although symptoms and discomfort may occur for several days following overexposure following ingestion. Components in the fragrance, contained in very small quantities in this product, may be mild allergens to some sensitive individuals 4.6 Target Organs: Eyes, Skin 4.7 Medical Conditions None known. **HEALTH** 1 Aggravated by Exposure: **FLAMMABILITY** 0 **PHYSICAL HAZARDS** 0 PROTECTIVE EQUIPMENT В **EYES** SKIN 5. FIREFIGHTING MEASURES This product is non-flammable. When exposed to high temperatures, may produce hazardous Fire & Explosion Hazards: 5.1 decomposition products such as oxides of carbon (e.g., CO, CO<sub>2</sub>) and nitrogen (e.g., NO<sub>x</sub>) and smoke 5.2 Extinguishing Methods: Water, Foam, CO2, Dry Chemical 5.3 Firefighting Procedures: First responders should wear eye protection. Structural fire fighters must wear full protective equipment and MSHA/NIOSH-approved self-contained breathing apparatus. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

If necessary, rinse contaminated equipment with soapy water before returning to service.



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		6. ACCID	FNTAI	RFI	FASE	MFA	SURI	FS			
6.1	Spills:	Before cleaning any spill of							wear an	nronriate	Personal Protect
		Equipment.	i icak, ii	idividual	3 IIIVOIVO	и пт эрп	Cicano	ip must	wcai ap	ргорпак	2 i cisonai i ioteci
		For small spills (e.g., < 1 gal	on (3.8 L)	)) wear a	ppropriat	e person	al prote	ctive equ	uipment (e	e.g., gog	gles, gloves). Remo
		spilled material with absorbe									
		in accordance with local, sta									ontainer with plenty
		warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse.  For <u>large spills</u> (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected individuals. Dike and contain							aantain anill with in		
		material (e.g., sand or earth									
		containers for proper dispos									
		water. Keep spills and clear	ing runoff	s out of o	drains, m	unicipal s	ewers a	nd oper	bodies o	f water.	
		7 114115111	10 0 6		<u> </u>	NEOD		1011			
71	Work & Hygiana Brastiana:	7. HANDLII	NG & S	SIUR	AGE I	NFOR	KIVIA I	ION			
7.1	Work & Hygiene Practices: Storage & Handling:	Avoid eye contact.	uell ven	tilated la	antina (a	a local	avbaus	tvontilat	tion fond	. Do no	t atara in damagad
1.2	Storage & Handling:	Use and store in a cool, dry unmarked containers or store									t store in damaged
7.3	Special Precautions:	Spilled material may present								C.	
		pinou matorial may procent	и опррин	y mazara	ii ioit uiio	ittorraou.	Ciodire	и оршо	prompay.		
		8. EXPOSURE CO			PERS		L PR	OTEC			
8.1	Exposure Limits: ppm (mg/m³)		AC	GIH	ES-	NOHSC ES-	ES-		OSHA	1	OTHER
	, ,	CHEMICAL NAME(S)	TLV	STEL	TWA	STEL	PEAK	PEL	STEL	IDLH	
		GLYCERIN PROPYLENE GLYCOL	10 NA	NA NA	NF 474	NF NF	NF NF	15 NA	NA NA	NA NA	
		BHT (BUTYLATED	2	NA	10	NF	NF	10	NA	NA NA	
		HYDROXYTOLUENE)			-						
8.2	Ventilation & Engineering	SODIUM HYDROXIDE	(2)	NA -f	(2)	NF	NF	(2)	NA In	(10)	(2) NIOSH
0.2	Controls:	When working with large of Ensure that an eyewash state									iust ventilation, far
8.3	Respiratory Protection:	None required if used in a w			4011110 4	unable iii	00000	СХРООЦ	ire to eye.	J	
8.4	Eye Protection:	Avoid eye contact. Protecti			safety dla	asses wit	th side-s	shield) is	recomm	ended a	t 🙉
		all times when handling this									
8.5	Hand Protection:	None required under normal	condition	s of use.	•	-					
8.6	Body Protection:	None required under normal	condition	s of use.							
		9. PHYSIC	AL & 0	CHEM	ICAL	PROF	PERT	<u>IES</u>			
9.1	Appearance:	Semi-viscous lotion									
9.2	Odor:	Apple spice odor									
9.3	Odor Threshold:	ND									
9.4	pH:  Melting Point/Freezing Point:	NA									
9.6	Initial Boiling Point/Boiling	l ND									
	Range:	ND									
9.7	Range: Flashpoint:		le.								
	Range: Flashpoint: Upper/Lower Flammability	ND	le.								
9.7	Range: Flashpoint:	ND This product is non-flammab	le.								
9.7	Range: Flashpoint: Upper/Lower Flammability Limits:	ND This product is non-flammab	le.								
9.7 9.8 9.9	Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure:	ND This product is non-flammab NA ND	le.								
9.7 9.8 9.9 9.10	Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density:	ND This product is non-flammab NA ND NA	le.								
9.7 9.8 9.9 9.10 9.11	Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density:	ND This product is non-flammab NA ND NA NA NA	le.								
9.7 9.8 9.9 9.10 9.11 9.12	Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility:	ND This product is non-flammab NA ND NA NA NA Soluble in water	le.								
9.7 9.8 9.9 9.10 9.11 9.12 9.13 9.14 9.15	Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log Pow): Autoignition Temperature: Decomposition Temperature:	ND This product is non-flammab NA ND NA NA Soluble in water NA NA NA NA	le.								
9.7 9.8 9.9 9.10 9.11 9.12 9.13 9.14 9.15 9.16	Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log Pow): Autoignition Temperature: Decomposition Temperature: Viscosity:	ND This product is non-flammab NA ND NA NA Soluble in water NA NA NA NA NA NA NA NA	le.								
9.7 9.8 9.9 9.10 9.11 9.12 9.13 9.14 9.15	Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log Pow): Autoignition Temperature: Decomposition Temperature:	ND This product is non-flammab NA ND NA NA Soluble in water NA NA NA NA	le.								
9.7 9.8 9.9 9.10 9.11 9.12 9.13 9.14 9.15 9.16	Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log Pow): Autoignition Temperature: Decomposition Temperature: Viscosity:	ND This product is non-flammab NA ND NA NA Soluble in water NA NA NA NA NA NA NA NA		ITV 0	DEA	CTIV/I	TV				
9.7 9.8 9.9 9.10 9.11 9.12 9.13 9.14 9.15 9.16 9.17	Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log Pow): Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information:	ND This product is non-flammab NA ND NA NA NA Soluble in water NA	te.	LITY 8	& REA	CTIVI	TY				
9.7 9.8 9.9 9.10 9.11 9.12 9.13 9.14 9.15 9.16	Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log Pow): Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information:  Stability: Hazardous Decomposition	ND This product is non-flammab NA ND NA NA Soluble in water NA NA NA NA NA NA This product is stable.	TABIL	LITY 8	k REA	CTIVI	TY				
9.7 9.8 9.9 9.10 9.11 9.12 9.13 9.14 9.15 9.16 9.17 10.1	Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log Pow): Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information:  Stability: Hazardous Decomposition Products:	ND This product is non-flammab NA ND NA NA Soluble in water NA NA NA NA NA This product is stable. Oxides of carbon and nitroget	TABIL	LITY 8	& REA	CTIVI	TY				
9.7 9.8 9.9 9.10 9.11 9.12 9.13 9.14 9.15 9.16 9.17	Range: Flashpoint: Upper/Lower Flammability Limits: Vapor Pressure: Vapor Density: Relative Density: Solubility: Partition Coefficient (log Pow): Autoignition Temperature: Decomposition Temperature: Viscosity: Other Information:  Stability: Hazardous Decomposition	ND This product is non-flammab NA ND NA NA Soluble in water NA NA NA NA NA NA This product is stable.	TABIL			CTIVI	TY				

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision Date: 12/17/2018 11. TOXICOLOGICAL INFORMATION Inhalation: NO Absorption: YES 11.1 Routes of Entry: Ingestion: YES 11 2 Toxicity Data: The 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. This data has not been presented in this document. 11.3 Acute Toxicity: See Section 4.4 11.4 Chronic Toxicity: See Section 4.5 11.5 Suspected Carcinogen: This product contains BHT (Butylated Hydroxytoluene), which is not carcinogenic to humans, but is listed as Group 3 carcinogens by the IARC 11.6 Reproductive Toxicity: This product is not reported to produce reproductive toxicity in humans. Mutagenicity: This product is not reported to produce mutagenic effects in humans. Embryotoxicity This product is not reported to produce embryotoxic effects in humans. Teratogenicity: This product is not reported to produce teratogenic effects in humans. Reproductive Toxicity: This product is not reported to produce reproductive effects in humans. 11.7 Irritancy of Product: See Section 4.2 11.8 Biological Exposure Indices NE Physician Recommendations: 11.9 Treat symptomatically. 12. ECOLOGICAL INFORMATION 12 1 Environmental Stability There are no specific data available for this product. 122 Effects on Plants & Animals: There are no specific data available for this product. 12.3 Effects on Aquatic Life: There are no specific data available for this product. 13. DISPOSAL CONSIDERATIONS Waste Disposal: Dispose of in accordance with Federal, state and local regulations. 13.1 13.2 Special Considerations 14. TRANSPORTATION INFORMATION The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR. 14.1 49 CFR (GND): NOT REGULATED IATA (AIR): 14.2 **NOT REGULATED** 14.3 IMDG (OCN): **NOT REGULATED** TDGR (Canadian GND): 14 4 **NOT REGULATED** ADR/RID (EU): 14 5 NOT REGULATED SCT (MEXICO): 14.6 **NOT REGULATED** 14.7 ADGR (AUS): **NOT REGULATED** 15. REGULATORY INFORMATION 15.1 SARA Reporting This product does not contain any substances subject to SARA Title III, Section 313 reporting requirements. Requirements: 15.2 SARA Threshold Planning There are no specific Threshold Planning Quantities for the components of this product. Quantity TSCA Inventory Status: 15.3 The components of this product are listed on the TSCA Inventory or are otherwise exempt. CERCLA Reportable Quantity 15.4 Sodium Hydroxide: 454 kg (1,000 lbs.) (RQ): Other Federal Requirements: 15.5 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 SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS D2B (Other Toxic Effects). 15.7 State Regulatory Information: None of the ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI) 15.8 Other Requirements: Note: Contains a tree nut. 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.

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SDS Revision: 1.0 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision Date: 12/17/2018 16. OTHER INFORMATION WARNING! MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION. Use only as 16.1 Other Information: directed. If skin irritation or rash occurs, discontinue use immediately. If in eyes, rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists or skin irritation persists, seek medical advice/attention. KEEP OUT OF REACH OF CHILDREN. Terms & Definitions: 16.2 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 & OPI'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: OPI Products, Inc. 4500 Park Granada Blvd Calabasas, CA 91302 USA Tel: +1 (818) 999-5112 http://www.opi.com 16.5 Prepared by: ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700

http://www.shipmate.com

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#### **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	Chemical Abstract Service Number
RTECS N	Registry of Toxic Effects of Chemical Substances Number
EINECS N	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.

#### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

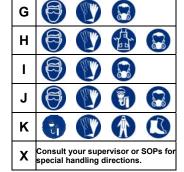
#### HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



#### PERSONAL PROTECTION RATINGS:

Α			
В			
С			
D		型	
Е			
F			





#### 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	Minimum temperature required to initiate combustion in air with no other			
Temperature	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	FLAMMABILITY
1	Slight Hazard	REACTIVITY
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	$\langle 2 \rangle$
ALK	Alkaline	<b>X</b> -/
COR	Corrosive	/ <b>w y</b>
₩	Use No Water	HEALTH
ОХ	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

#### TOXICOLOGICAL INFORMATION:

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

#### REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System				
DOT	U.S. Department of Transportation				
TC	Transport Canada				
EPA	U.S. Environmental Protection Agency				
DSL	Canadian Domestic Substance List				
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:

0	<b>(</b>	<b>(4)</b>	<b>@</b>	<b>(T)</b>	<b>®</b>		ĸ
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compresse d	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

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

			$\Diamond$			$\Diamond$		<b>1</b>
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environmen t