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: 8/10/2017

1.1	Product Name:	OPI INFINITE SHINE RIDGE FILLER PRIMER
1.2	Chemical Name:	NA
.3	Synonyms:	NA NA
.4	Trade Names:	IST12
.5	Product Use:	Professional or Sundry Use Only
.6	Distributor's Name:	OPI Products, Inc.
.7	Distributor's Address:	13034 Saticoy Street, No. Hollywood, CA 91605 USA
.8	Emergency Phone:	CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 16377)
.9	Business Phone / Fax:	+1 (818) 759-2400 / +1 (818) 759-5776
		2. HAZARDS IDENTIFICATION
1	Hazard Identification:	This product is classified as a hazardous substance and as dangerous goods according to the classification criteria NOHSC: 1088 (1999) and ADG Code (Australia). WARNING! FLAMMABLE LIQUID AND VAPOR. CAUSES SERIOUS EYE IRRITATION. CAUSES MILD SK IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS Classification: Flam. Liq. 3; Eye Irrit. 2A; Skin Irrit. 3; STOT RE 3
2.2	Label Elements:	Hazard Statements (H): H226 – Flammable liquid and vapor. H319 – Causes serious eye irritation. H316 – Causes mild skin irritation. H336 – May cause drowsiness or dizziness. Precautionary Statements (P): P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 – Keep container tightly closed. P261 – P261 – Avoid breathing dust/fume/vapors. P271 – Use only outdoors or in a well-ventilated area. P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P370+P378 – In case of fire: Use CO ₂ , Halon (if permitted), Dry Chemical, Foam, as authorized. P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+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 irritations persist: Get medical advice. Attention. P332+P313 – If skin irritation occurs: Get medical advice attention. P403+P235 – Store in a well-ventilated place. Keep cool. P501 – Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF).
	Other Warnings:	

	EXPOSURE LIMITS IN AIR (mg/m³)												
					AC	GIH		NOHSC	:		OSHA		
					pp	m		ppm			ppm		
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	OTHER
DUTYL ACETATE	123-86-4	AF7350000	204-658-1	30-50	150	200	150	200	NF	200	200	1700	100 NIOSH
BUTYL ACETATE	Flam. Liq. 3; S	TOT SE 3; H226,	H336										
ETINA ACETATE	141-78-6	AH5425000	205-500-4	25-40	400	400	200	400	NF	NA	NA	2000	400 TWA
ETHYL ACETATE	Flam. Liq. 2; Ey	ye Irrit. 2; STOT S	SE 3; H225, H31	9, H336									
POLYVINYL BUTYRAL	63148-65-2	TR49550000	NA	10-20	NA	NA	NF	NF	NF	NA	NA	NA	
TOSYLAMIDE/	25035-71-6	QW0970000	200-001-8	5-10	(10)	NE	NF	NF	NF	(10)	NE	NE	
EPOXY RESIN		1	1004 007 0	I									ı
ACETYL TRIBUTYL CITRATE	77-90-7	NA	201-067-0	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
	· · · · · · · · · · · · · · · · · · ·	luta. 1B; Carc. 1E	<u> </u>										I
SILICA	7631-86-9	VV7310000	231-545-4	1-5	NA	NA	NF	NF	NF	NA	NA	3000	RESP FRAC
	71-36-3	EO1400000	200-751-6	0.1-1	NA	50	50	152	50	100	NA	1400	
BUTYL ALCOHOL	Flam. Liq. 3; Ad	cute Tox. 4; Skin	Irrit. 2; Eye Dam	. 1; STOT	SE 3; H	1226, H	302, H3	15, H3	18, H33	5, H336	6		I.
MICROCRYSTALLINE CELLULOSE	9004-34-6	NA	323-674-9	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
		1											1
HYDROGENATED CASTOR	NA	NA	NA	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
OIL/SEBACIC ACID COPOLYMER													
BENZOPHENONE-1	131-56-6	DJ0700000	205-029-4	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
BENZOI HENOINE I	Skin Irrit. 2; Eye	e Irrit. 2; STOT S	E 3; H315, H319	, H335			•						
TOCOPHERYL ACETATE	7695-91-2	GA8747000	231-710-0	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
TOO THE TEXT EXTENDED AT THE		1===:	T										1
WATER (AQUA/EAU)	7732-18-5	ZC0110000	231-191-2	0-0.1	NA	NA	NF	NF	NF	NA	NA	NA	
		1											
CAPRYLIC/CAPRIC TRIGLYCERIDE	65381-09-1	NA	265-724-3	0-0.1	NA	NA	NF	NF	NF	NA	NA	NA	
HELIANTHUS ANNUUS	84776-03-4	NA	232-273-9	0-0.1	NA	NA	NF	NF	NF	NA	NA	NA	
(SUNFLOWER) SEED OIL	0-110-03-4	IN/A	202-210-9	U-U. I	INA	INA	INI	INI	INI	INA	INA	INA	<u>l</u>
CI 77891 (TITANIUM DIOXIDE)	13463-67-7	XR2275000	236-675-5	0-0.1	NA	NA	NF	NF	NF	NA	NA	NA	
,													

$0.9 \cdot 1$

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 8/10/2017 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) **ACGIH** NOHSC **OSHA** ppm ppm ppm ES-ES-PEL STEL IDLH CHEMICAL NAME(S) CAS No. RTECS No. EINECS No. STEL TWA STEL PEAK OTHER 57-55-6 TY200000 200-338-0 0-0 1 NA NA 474 NF NF NA NA NA PROPYLENE GLYCOL Skin Irrit. 3; Eye Irrit. 2; H316, H320 93165-54-9 NA 296-941-1 0-0.1 NA NA NF NF NF NA NA NA MORINGA OLEIFERA SEED OIL 1318-74-7 FF5800000 215-609-9 0-0.1 NA NA NF NF NF NA NA NA CI 77004 (QUARTZ) IRON OXIDES (CI 77491, CI 77492, 1332-37-2 NA NΑ 0-0.1 NA NA NF NF NF NA NA NA CI 77499) 294-923-8 NF 91771-33-4 NA 0-0.1 NA NA NF NF NA NA NA BAMBUSA VULGARIS EXTRACT 590-00-1 NA 246-376-1 0-0.1 NA NA NF NF NF NA NA NA POTASSIUM SORBATE NELUMBO NUCIFERA FLOWER 85085-51-4 NA 285-379-2 0-0.1 NA NA NF NF NF NA NA NA **EXTRACT** 110-44-1 WG2100000 NA NA NA 203-768-7 0-0.1 NA NA NF NF NF SORBIC ACID Skin Irrit. 2; Eye Irrit. 2 STOT SE 3(inhalation); H315, H319, H335 231-633-2 Tb6300000 0-0.1 NA NF NF NF NA NA NA 7664-38-2 NA PHOSPHORIC ACID Skin Corr. 1B; H314 1934-21-0 UQ6400000 217-699-5 0-0.1 NA NA NF NF NF NA NA NA CI 19140 (YELLOW 5) NA 200-201-5 0-0.1 NA NA NF NF NF NA NA NA 54-28-4 **TOCOPHEROL** Aquatic Chronic 4; H413 4. FIRST AID MEASURES 4.1 First Aid: If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk Ingestion: IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give water or milk to an unconscious person. Contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed Eyes: Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. If irritation occurs, contact a physician. Skin: If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately. Inhalation: Remove victim to fresh air. Effects of Exposure: 4.2 If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system Ingestion: Eyes: Irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering. May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated contact. Skin: Vapors of this product may be slightly irritating to the nose, throat and other tissues of the respiratory Inhalation: system. Symptoms of overexposure can include coughing, wheezing, nasal congestion, and difficulty breathing. Inhalation of vapors exceeding the levels listed in Section 3 (Composition and Ingredient Information) can cause central nervous system depression (e.g., drowsiness, dizziness, headaches, nausea) Symptoms of Overexposure: Symptoms of skin overexposure in individuals may include redness, itching, and irritation of affected areas. Overexposure in eyes may cause redness, itching and watering. 44 Acute Health Effects: Mild to moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea. 4.5 Chronic Health Effects: None known. 4.6 Target Organs: Eyes, skin and respiratory system. 47 **Medical Conditions** Pre-existing skin, eye and respiratory disorders. **HEALTH** 1 Aggravated by Exposure: **FLAMMABILITY** 3 0 **PHYSICAL HAZARDS** В PROTECTIVE EQUIPMENT **EYES** SKIN

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		5. FIRE									
5.1	Fire & Explosion Hazards:	DANGER! HIGHLY FLAMMAE			VAPOR!	Keep aw	ay from h	eat, lit ci	garettes	3,	
	Futio maiobio o Matheada.	sparks & open flame. Keep cont			4						
5.2	Extinguishing Methods: Firefighting Procedures:	CO ₂ , Halon (if permitted), Dry Ch					aio produc	t will ianit	o roodil	\ <u>\</u>	3
.3	Firelighting Procedures.	This product is a Class IB flammable liquid. When involved in a fire, this product will ignite readily and decompose to produce carbon oxides. Vapors of this product are heavier than air and may								1	
		travel to a source of ignition and						triair an	ana ma	,	
		First responders should wear e	ye protect	tion. Str	uctural fire	efighters	must wea	r SCBAs	and fu	ıll	
		protective equipment. Use a wa				or direct	vapors. ۱	Vater ma	y not b	е	Ť
		effective in actually extinguishing	a fire invo	olving this	s product.						
		6. ACCIDEN	TAL R	ELEA	SE ME	ASU	RES				
.1	Spills:	Before cleaning any spill or lea Equipment.	ak, individ	luals inv	olved in s	spill clea	nup must	wear ap	opropria	te Perso	onal Protecti
		For small spills (e.g., < 1 gallon (
		spilled material with absorbent m									
		accordance with local, state and the water and soap. Remove any cort							or contai	ner with	plenty of wa
		For <u>large spills</u> (e.g., ≥ 1 gallon							ke and	contain	snill with in
		material (e.g., sand or earth). Tra									
		containers for proper disposal. F	Remove c	ontamina	ited clothir	ng promp	otly and w	ash affed			
		water. Keep spills and cleaning ru	inoffs out	of munici	pal sewers	s and ope	en bodies	of water.			
		7. HANDLING	& STO	ORAG	E INFO	ORMA	TION				
.1	Work & Hygiene Practices:	Avoid prolonged contact with the						t. Use in	a well-v	entilated	l location (e.g
		local exhaust ventilation, fans).									
		smoke while handling product.									
	7.2 Storage & Handling: Keep this material away from heat, sparks and open flame. Open containers slowly on a stable surface.										
.2	Storage & Handling:										
.2	Storage & Handling:	closed tightly when not in use.	Empty	containe	r may cor	ntain res	idual amo	unts of t	this pro	duct; the	erefore, emp
7.2	Storage & Handling:	closed tightly when not in use containers should be handled with	Empty th care.	containe Store cor	r may cor ntainers in	ntain res a cool, o	idual amo dry locatio	unts of t n, away t	this pro from dire	duct; the	erefore, emp
	Storage & Handling: Special Precautions:	closed tightly when not in use.	Empty th care. at. Store	containe Store cor away fro	r may cor ntainers in m incompa	ntain res a cool, o atible ma	idual amo dry locatio terials (Se	unts of t n, away t e Section	this profrom dire 10).	duct; the ect sunli	erefore, emp ght, other lig
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.3	Special Precautions:	closed tightly when not in use containers should be handled wisources, or sources of intense he Open containers slowly on a sta	Empty th care. eat. Store able surfa product; th	containe Store cor away fro ce. Kee nerefore,	r may cor ntainers in m incompa p containe empty con	ntain res a cool, o atible ma er tightly tainers s	idual amo dry locatio terials (Se closed wh hould be h	unts of t n, away t e Section en not in andled w	this pro from dire 10). 1 use. rith care	duct; the ect sunli	erefore, emp ght, other lig ontainers ma
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 8/10/2017 9. PHYSICAL & CHEMICAL PROPERTIES Appearance: Clear liquid 9.2 Odor Slight Odor Threshold: 9.3 NA 9.4 pH: NA 9.5 Melting Point/Freezing Point: NA 9.6 Initial Boiling Point/Boiling NA Range: 9.7 Flashpoint: - 4 °C (24.8 °F) estimated 9.8 Upper/Lower Flammability NA Limits: 9.9 Vapor Pressure: NA 9.10 Vapor Density: NA 9 11 Relative Density: NA 9.12 Solubility: NA 9.13 Partition Coefficient (log Pow): NA 9.14 Autoignition Temperature: NA 9 15 Decomposition Temperature: NA 9.16 Viscosity NA 9.17 Other Information: NA 10. STABILITY & REACTIVITY Stable under ambient conditions when stored properly (see Section 7, Storage and Handling). 10.1 Stability: 10.2 Hazardous Decomposition If exposed to extremely high temperatures, the products of thermal decomposition may include irritating vapors and Products: carbon oxide gases (e.g., CO, CO₂) 10.3 Hazardous Polymerization: May occur, if exposed to extremely high temperatures. Exposure or contact to extreme temperatures, incompatible chemicals, strong light sources, sparks, flame. 10.4 Conditions to Avoid: 10.5 Incompatible Substances This product is incompatible with strong oxidizers (e.g., peroxides, superoxides), strong acids (e.g., hydrochloric or muriatic acids), or strong bases (e.g., lye, potassium hydroxide). 11. TOXICOLOGICAL INFORMATION Absorption: YES Routes of Entry: Inhalation: NO Ingestion: YES 11.1 Toxicity Data: This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is 11.2 available for some of the components of the product and is presented below: Ethyl Acetate: LD₅₀ (oral, rat) = 5,620 mg/kg; LD₅₀ (oral, mouse) = 4,100 mg/kg; LC₅₀ (inh-6h, rat) = 16,000 ppm 11.3 Acute Toxicity: See Section 4.4 Chronic Toxicity: See Section 4.5 11.4 Suspected Carcinogen: This product contains Ethyl Acetate) which are not carcinogenic to humans, but are listed as Group 3 carcinogens by the 11.5 **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. This product is not reported to produce embryotoxic effects in humans Embryotoxicity: 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 Biological Exposure Indices: NE 11.8 11.9 Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: The components of this product will slowly degrade over time into a variety of organic compounds. environmental data available for the components of this product are as follows: Ethyl Acetate: Koc = 0.73. Water solubility: 64,000 mg/l. Bioconcentration Factor = 4-14. Bioconcentration is not anticipated to be significant. This compound can be removed from contaminated environments from volatilization, and biodegradation. This compound's half-life in water is 6.1 hours. Butyl Acetate: Koc = 1.82. Water solubility: 120 parts H₂O at 25°C (77°F). Bioconcentration Factor = 4-14. Bioconcentration is not anticipated to be significant. This compound can be removed from contaminated environments from volatilization, and biodegradation. This compound's half-life in water is 6.1 hours. 12.2 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 13.1 Waste Disposal: Dispose of in accordance with Federal, state and local regulations. 13 2 Special Considerations NA

$0.9 \cdot 1$

15.7

15.8

State Regulatory Information:

Other Requirements:

Substances List (WI).

NA

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 8/10/2017 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. UN1263, PAINT, 3, II (LTD QTY, IP ≤ 1.0 L) or CONSUMER COMMODITY, ORM-D - until 01/01/2021 14.2 IATA (AIR): (A)<(A) ID8000, CONSUMER COMMODITY, 9 (IP VOL ≤ 0.5 L) UN1263, PAINT, 3, II (LTD QTY, IP \leq 1.0 L) IMDG (OCN): UN1263, PAINT, 3, II (LTD QTY, IP VOL ≤ 1.0 L) UN1263, PAINT, 3, II (LTD QTY, IP VOL ≤ 1.0 L); or 14.4 TDGR (Canadian GND): "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (≤ 1.0 L) ADR/RID (EU): 14.5 UN1263, PAINT, 3, II (LTD QTY, IP VOL ≤ 1.0 L) 14.6 SCT (MEXICO): UN1263, PINTURA, 3, II (CANTIDAD LIMITADA, IP VOL ≤ 1.0 L) ADGR (AUS): 14.7 UN1263, PAINT, 3, II (LTD QTY, IP VOL ≤ 1.0 L) 14.8 Other: This product may also be shipped as an Excepted Quantity (IP VOL ≤ 30 ml, PKG ≤ 500 ml) 15. REGULATORY INFORMATION 15.1 SARA Reporting This product contains Ethyl Acetate, a substance that is subject to SARA Title III Section 304 reporting. Requirements There are no specific Threshold Planning Quantities for the components of this product. 15.2 SARA TPQ: 15.3 TSCA Inventory Status: The components of this product are listed on the TSCA Inventory. CERCLA Reportable 15.4 Butvl Acetate: 2.270 kg (5.000 lbs): Ethyl Acetate: 2.270 kg (5.000 lbs) Quantity Other Federal Requirements: This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G 15.5 (Cosmetics) Other Canadian Regulations: 15.6 This product has been classified according to the hazard criteria of the CPR and the Safety Data Sheet 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 B2, D2B (Flammable Liquid, Other Toxic Effects)

Exposures List for Air Contaminants (WA), Wisconsin Hazardous Substances List (WI).

Ethyl Acetate is found on the following state criteria lists: CA, DE, MA, MN, NJ, NY, PA, and WA.

<u>Butyl Acetate</u> is found on the following state criteria lists: California OSHA Hazardous Substances List (CA), Delaware Air Quality Management List (DE), Massachusetts Hazardous Substances List (MA), New Jersey Right-to-Know List (NJ), New York List of Hazardous Substances (NY), Pennsylvania Right-to-Know List (PA), and Washington Permissible

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

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SDS Revision Date: 8/10/2017

		16. OTHER INF	ORMATION
16.1	Other Information:	cause drowsiness or dizziness. Use of heat, hot surfaces, sparks, open flames and of breathing dust/fume/vapors. Use only outdoors of contaminated clothing. Rinse skin with water of Foam, as authorized. IF INHALED: Remove per cautiously with water for several minutes. Remove the several minutes.	SERIOUS EYE IRRITATION. CAUSES MILD SKIN IRRITATION. MAY only as directed. Discontinue use if irritation develops. Keep away from their ignition sources. No smoking. Keep container tightly closed. Avoid or in a well-ventilated area. IF ON SKIN (or hair): Take off immediately all r shower. In case of fire: Use CO ₂ , Halon (if permitted), Dry Chemical, rson to fresh air and keep comfortable for breathing. IF IN EYES: Rinse love contact lenses, if present and easy to do. Continue rinsing. If eye in If skin irritation occurs: Get medical advice attention. Store in a well-ACH OF CHILDREN.
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.	
16.3	Disclaimer:	government regulations must be reviewed for an the information contained herein is reliable and is not guaranteed and no warranties of any type herein relates only to the specific product(s). If the	OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other oplicability to this product. To the best of ShipMate's & OPI's knowledge, accurate as of this date; however, accuracy, suitability or completeness e, either expressed or implied, are provided. The information contained his product(s) is combined with other materials, all component properties in time to time. Be sure to consult the latest edition.
16.4	Prepared for:	OPI Products, Inc. 13034 Saticoy Street No. Hollywood, CA 91605 USA Tel: +1 (818) 759-2400 Fax: +1 (818) 759-5776 http://www.opi.com	$\mathbf{O} \cdot \mathbf{P} \cdot \mathbf{I}$
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	ShipMate* Dangerous Goods Training & Consulting

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SDS Revision Date: 8/10/2017

DEFINITION OF TERMS

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

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number
RTECS No.	Registry of Toxic Effects of Chemical Substances Number
EINECS No.	European Inventory of Existing Commercial Chemical Substances Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
IDLH	Immediately Dangerous to Life and Health
NOHSC	National Occupational Health and Safety Commission (Australia)
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average

FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

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		THE STATE OF THE S	
D		THE STATE OF THE S	
Е			
F			

G				
Н			H.	
ı				
J			F	
K	F		(
Х	Consult y special h	our supe andling d	rvisor or irections.	SOPs for



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	Chasifia Tarast Organ Tavisity Cingle Evacure

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	FLAMMABILITY
1	Slight Hazard	\ \ \
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	/ X W
W	Use No Water	HEALTH 🔪
ОХ	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

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 _{io}	Lowest dose to cause a symptom			
TCLo	Lowest concentration to cause a symptom			
TD _{Io} , LD _{Io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects			
TC, TC _o , LC _{io} , & LC _o				
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 Kow or log Koc	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	CA 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	(*)	(2)	(3)	\odot	(4)		
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

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

	③	③	\Diamond			(! >		*
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment