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# **MATERIAL SAFETY DATA SHEET**

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			3. CON	<b>NPOSITION</b>	I & INGRE	DIENT	INFC	)RM	ATIO	N					
			EXPC							(POSURE LIMITS IN AIR (mg/m³)					,
						AC		I	NOHSC	<u> </u>		OSHA			
						рр	m	ES-	ppm ES-	ES-		ppm		OTHER	
CHEMICAL NAME(S)			CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	TWA	STEL	PEAK	PEL	STEL	IDLH	
ETHYL ACETATE			141-78-6	AH5425000	201-550-6	≤ 35.0	400	400	720	1440	NF	NA	NA	2000	400 TWA
BUTYL ACETATE			123-86-4	AF7350000	204-658-1	≤ 20.0	150	200	713	950	NF	200	200	1700	150 TWA
NITROCELLULOSE			9004-70-0	QW0970000	NA	≤ 10.0	(10)	NE	NF	NF	NF	(10)	NE	NE	
ALCOHOL DENATURED			64-17-5	KQ6300000	200-578-6	≤ 10.0	1900	NA	1880	NF	NF	1000	NA	NA	
SUCR	OSE ACETATE IS	OBUTYRATE	126-13-6	WN6550000	204-771-6	≤ 10.0	NA	NA	NF	NF	NF	NA	NA	NA	
ETHYL	TOSYLAMIDE		80-39-7	NA	NA	≤ 10.0	NA	NA	NF	NF	NF	NA	NA	NA	
ISOPR	OPYL ALCOHO	L	67-63-0	NT8050000	200-661-7	≤ 10.0	400	500	983	1230	NF	400	500	2000	400TWA
ADIPIC ACID/NEOPENTYL GLYCOL/TRIMELLITIC ANHYDRIDE COPOLYMER		28407-73-0	NA	NA	≤ 5.0	NA	NA	NF	NF	NF	NA	NA	NA		
TOSYLAMIDE/EPOXY RESIN		130353-62-7	NA	NA	≤ 3.0	NA	NA	NF	NF	NF	NA	NA	NA		
ETOCRYLENE		5232-99-5	NA	NA	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		
DIMETHICONE		9006-65-9	NA	NA	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		
KUKUI (ALEURITES MOLUCCANA) NUT OIL		8015-80-3	NA	NA	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		
ASCORBIC ACID		50-81-7	NA	NA	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		
TOCOPHERYL (VITAMIN E) ACETATE		7695-91-2	NA	231-710-0	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		
ALOE BARBADENSIS (ALOE VERA) EXTRACT			85507-69-3	NA	287-390-8	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
HYDROLYZED WHEAT PROTEIN		70084-87-6	NA	NA	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		
CI 60725 (VIOLET #2)			81-48-1	CB7700000	201-353-5	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
				4. FIF	RST AID M	EASUR	RES								
4.1	First Aid: INGESTION:  EYES:  SKIN:	patient is vo nearest Poisc ingested and Splashes are minutes. If irr	do not induce miting, continu on Control Cer I the amount o not likely; how itation occurs, curs and prod	ve to offer wa nter or local e f the substanc vever, if produ contact a phy	ter or milk. It mergency nue that was sworth the control of the co	Never giv mber. P allowed. eyes, flu	ve wate rovide sh with	er or r an es copia	nilk to timate ous am	an un of the ounts o	consci	ious p at whic warm	erson. ch the water	Cont mater	act the ial was east 15
	INHALATION:	effected area	a with soap and m to fresh air c	d water. If irrit		• .					-		_		y or me
4.2		ns Aggravated by E		ii Jiice.					- 4-1-					_	
7.2	None known.	is Aggiavated by E	Aposure.					<u>Li</u>	EALT	H				1	
								F	LAM	MAB	ILITY			3	1
								R	EAC	<b>TIVIT</b>	Υ			0	)
								Р	ROTE	CTIV	/E EG	QUIP	MEN	T A	`
								Ε	/ES						

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5. FIREFIGHTING MEASURES 5.1 Flashpoint & Method: -4 °C (24 °F) estimated. 5.2 Autoignition Temperature: NA Flammability Limits: NE 5.3 Lower Explosive Limit (LEL): NE Upper Explosive Limit (UEL): WARNING: Flammable! Keep away from heat, lit cigarettes, sparks & open flame. Keep container closed. 5.5 Extinguishing Methods: HazChem Code: 3YE Hazard Identification Number: 33 CO<sub>2</sub>, Halon, Dry Chemical, Foam Firefighting 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 travel to a source of ignition and flash back to a leaking or open container. First responders should wear eye protection. Structural firefighters must wear SCBAs and full protective equipment. Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product. 6. ACCIDENTAL RELEASE MEASURES 6.1 Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. For small spills (e.g., <1 gallon) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows) and secure all sources of ignition. 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, deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Use ONLY non-sparking tools for recovery and cleanup. Transfer liquid 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.

## 7. HANDLING & STORAGE INFORMATION

7.1 Work & Hygiene Practices:

Avoid prolonged contact with the product. Avoid breathing vapors of this product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans). After use, wash hands and exposed skin with soap and water. Do not eat, drink or 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. Keep container closed tightly when not in use. Empty container may contain residual amounts of this product; therefore, empty containers should be handled with care. Store containers in a cool, dry location, away from direct sunlight, other light sources, or sources of intense heat. Store away from incompatible materials (see Section 10).

7.3 Special Precautions:

Open containers slowly on a stable surface. Keep container tightly closed when not in use. Empty containers may contain residual amounts of this product; therefore, empty containers should be handled with care.

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 01/28/2010 8. EXPOSURE CONTROLS & PERSONAL PROTECTION 8.1 Ventilation & Engineering Controls When working with large quantities of product, provide adequate ventilation (e.g., local exhaust ventilation, fans). Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes. 8.2 No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states, or Australia. 8.3 Depending on the use of this product, splash or safety glasses may be worn. If necessary, refer to U.S. OSHA 29 CFR §1910.133, Canadian standards, or the European Standard EN166. 8.4 If anticipated that prolonged & repeated skin contact will occur during use of this product, wear latex or rubber gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the E.C. member states. 8.5 No special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the E.C. member states, or U.S. OSHA. 9. PHYSICAL & CHEMICAL PROPERTIES Density: 0.96 Boiling Point: 9.2 171 - 640°F 9.3 Melting Point: NE 9.4 Evaporation Rate: NA 9.5 Vapor Pressure: NA 9.6 Molecular Weight: NE 9.7 Appearance & Color: Viscous liquid, various colors 9.8 Odor Threshold 9.9 Solubility: Insoluble 9.10 NΑ 9 11 Viscosity: > 1200 cPs 9.12 Other Information: NA 10. STABILITY & REACTIVITY 10.1 Stable under ambient conditions when stored properly (see Section 7, Storage and Handling). 10.2 Hazardous Decomposition Products: If exposed to extremely high temperatures, the products of thermal decomposition may include irritating vapors and carbon oxide gases (e.g., CO, CO<sub>2</sub>). 10.3 Hazardous Polymerization: May occur, if exposed to extremely high temperatures. 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). 10.5 Incompatible Substances: None known.

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 01/28/2010 11. TOXICOLOGICAL INFORMATION 11.1 Toxicity Data: This product has NOT been tested on animals to obtain toxicology data. There are toxicology data for the components of the product, which are found in 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: This product contains Isopropyl Alcohol, which is not carcinogenic to humans, but is listed as a Group 3 carcinogen by IARC. 11.5 Reproductive Toxicity: This product is not reported to cause 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. This product is not reported to cause teratogenic effects in humans. Reproductive Toxicity: This product is not reported to cause reproductive effects in humans. 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 components of this product will slowly degrade over time into a variety of organic compounds. Specific environmental data available for the components of this product are as follows: Ethyl Acetate:  $K_{OC}$  = 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 H<sub>2</sub>O 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; however, very large releases of this product may be harmful or fatal to overexposed aquatic life. 13. DISPOSAL CONSIDERATIONS Waste Disposal: 13.1 Waste disposal must be in accordance with appropriate Federal, state, and local regulations. 13.2 Special Considerations U.S. EPA WASTE NUMBER: D001 (characteristic - ignitable)

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### 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.

EXCEPTED QUANTITY (49 CFR §173.4a) (≤ 30 ml) CONSUMER COMMODITY, ORM-D (≤ 1.0 L)

UN1263, PAINT RELATED MATERIAL, 3, II (> 1.0 L) 14.2 IATA (AIR)

EXCEPTED QUANTITY (AIR SHIPPER § 4.1.2) (≤ 30 ml) CONSUMER COMMODITY, 9, ID8000 (≤ 0.5 L) UN1263, PAINT RELATED MATERIAL, 3, II (> 0.5 L)

IMDG (OCN) EXCEPTED QUANTITY (2008 IMO § 3.5.1) (≤ 30 ml) UN1263, PAINT RELATED MATERIAL, 3, II, LTD QTY (≤ 1.0 L) UN1263, PAINT RELATED MATERIAL, 3, II (> 1.0 L)

14 4 TDGR (Canadian GND)

MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (≤ 1.0 L) UN1263, PAINT RELATED MATERIAL, 3, II (> 1.0 L)

14.5 ADR/RID (EU):

UN1263, PAINT RELATED MATERIAL, 3, II, ADR

14.6 MEXICO (SCT)

UN1263, PRODUCTOS PARA PINTURA, 3, II, CANTIDAD LIMITADA (≤ 1.0 L)

14.7 ADGR (Australia)

UN1263, PAINT RELATED MATERIAL, 3, II, ADR







### 15. REGULATORY INFORMATION

15.1 SARA Reporting Requirements:

SARA 304 (40 CFR Table 302.4) – Butyl Acetate, Ethyl Acetate

15.2 SARA Threshold Planning Quantity:

There are no specific Threshold Planning Quantities for the components of this product.

TSCA Inventory Status: 15.3

The components of this product are listed on the TSCA Inventory.

15.4 CERCLA Reportable Quantity (RQ):

Butyl Acetate: 5000 lbs.; Ethyl Acetate: 5000 lbs.

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. Class B2 Flammable Liquid.



Ingredients in this mixture on found on the following state criteria lists:

California OSHA Hazardous Substances List Butyl Acetate, Ethyl Acetate, Isopropanol **Delaware Air Quality Management List** Butyl Acetate, Ethyl Acetate, Nitrocellulose Massachusetts Hazardous Substances List Butyl Acetate, Ethyl Acetate, Isopropanol Minnesota Hazardous Substances List

New Jersey Right to Know Hazardous Substances List

New York List of Hazardous Substances

Pennsylvania Hazardous Substances List

Washington Permissible Exposure Limits for Air Contaminants

Wisconsin Hazardous Substances List

Butyl Acetate, Ethyl Acetate, Isopropanol, Camphor

Isopropanol, Nitrocellulose Butvl Acetate, Ethyl Acetate

Butyl Acetate, Ethyl Acetate, Isopropanol, Nitrocellulose

Butyl Acetate, Ethyl Acetate, Isopropanol

**Ethyl Acetate** 



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### 15. REGULATORY INFORMATION - continued

67/548/EEC (European Union) Requirements:

The primary component of this product is not listed in Annex I of EU Directive 67/548/EEC:

Ethyl Acetate: Flammable (F). R: 11-36/37/38 – Highly flammable. Irritating to eyes, respiratory system and skin. S: 2-16-23-29-33 – Keep out of the reach of children. Keep away from sources of ignition - No smoking. Do not breathe gas, fumes, vapor or spray. Do not empty into drains. Take precautionary measures against static discharges.

Butyl Acetate: Flammable (F), R: Flammable, S: 9-16-33 - Keep container in a well-ventilated place. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.



## 16. OTHER INFORMATION

16.1 Other Information:

> EXTREMELY FLAMMABLE! Keep away from heat or flame. Use only as directed. Avoid eye contact. If contact occurs, flush eye thoroughly with running water. Use only in a well-ventilated area. If redness or other signs of adverse reaction occur, discontinue use immediately. Keep container closed. Store in a cool place. KEEP OUT OF REACH OF CHILDREN.

16.2 Terms & Definitions

Please see last page of this MSDS.

16.3

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 & OPI Products' 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.

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## **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	GIH 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.

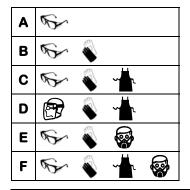
# HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

### **HEALTH, FLAMMABILITY & REACTIVITY RATINGS:**

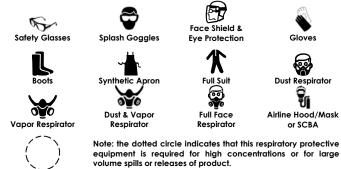
0	Minimal Hazard					
1	Slight Hazard					
2	Moderate Hazard					
3	Severe Hazard					
4	Extreme Hazard					



### PERSONAL PROTECTION RATINGS:







### OTHER STANDARD ABBREVIATIONS:

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

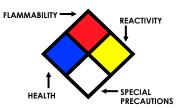
#### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

#### FLAMMABILITY LIMITS IN AIR:

Autoignition	Minimum temperature required to initiate combustion						
Temperature	ature 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
<del>-W-</del>	Use No Water
OX	Oxidizer



#### TOXICOLOGICAL INFORMATION:

LD <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s
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>lo</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 TC, TC <sub>o</sub> , LC <sub>io</sub> , & LC <sub>o</sub>	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
TLm	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	U.S. Toxic Substance Control Act					
EU	European Union (European Union Directive 67/548/EEC)					

### EC INFORMATION:

T.		No.	*		<b>9</b>	×	X
С	E	F	N	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful