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# MATERIAL SAFETY DATA SHEET

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MSDS-060

Prep	ared to OSHA,	ACC, ANSI, NOHSC, WHMIS	& 2001/58 EC Stando	ards MS	DS Revision: 2.0	MSDS	Revision Date: 10/22	2/2009
			1. PRODUCT	<b>IDENTIF</b>	ICATION			
1.1	Product Name:							
	OPI BRUSI	H CLEANER						
1.2	Chemical Name:							
	ACETONE SOL	UTION						
1.3	Synonyms:							
1.4	NA Trade Names:							
17	AL 201, AL 204	. AL 206						
1.5	Product Use:	, , , , , , , , , , , , , , , , , , , ,						
	PROFESSIONA	L OR SUNDRY USE ONLY						
1.6	Manufacturer's No							
1,7	OPI PRODUCTS  Manufacturer's Ac	<del></del>						
1./		Y STREET, NO. HOLLYWOOD,	CA 91605 USA					
1.8	Emergency Phone		CA 71000 00A					
	CHEMTREC:	+1 (703) 527-3887 / +	1 (800) 424-9300					
1.9	Business Phone:							
	+1 (818) 759-2	400 / +1 (800) 341-9999						
			2. HAZARD I	DENTIF	CATION			
2.1	Hazard Identification							
		classified as a HAZARDOU		DANGERO	OUS GOODS according	g to the c	lassification criteria	of NOHSC:
2.2	Routes of Entry:	d ADG Code (Australia). Flo		YES	A la un li - un li	VEC	T	VEC
2.3	Effects of Exposure	•	Inhalation:	1.62	Absorption:	YES	Ingestion:	YES
2.0	INGESTION:	If product is swallowed, ma	av cause nausea, vo	miting and	/or diarrhea and cen	ral nervo	us system depressio	n.
	EYES & SKIN:	The liquid may produce ey						
		inflammation, ulceration.	The vapor is discom	forting to	the eye. Splashes m	ay cause	severe eye irritatio	n, possible
		corneal burns and eye do itching, irritation and water						
								can cause
	allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure.  INHALATION: Vapors of this product may be moderately irritating to the nose, throat and other tissues of the respiratory system.				ory system.			
	Symptoms of overexposure can include coughing, wheezing, nasal congestion, and difficulty breathing. Inhalation of concentrated vapors can cause central nervous system depression (e.g., drowsiness, dizziness, headaches, nausea).				halation of			
		Odor may give some warr				wsiness, c	lizziness, headache	s, nausea).
2.4	Symptoms of Over		ing of exposore, but	odor range	oc may occor.			
	Symptoms of	skin overexposure may in	clude redness, itchin	g, and irri	tation of affected are	as. Ove	rexposure in eyes r	nay cause
		ng and watering. The pro	duct can cause alle	rgic skin i	eactions (e.g., rashe	s, welts, o	dermatitis) upon pro	olonged or
2.5	Acute Health Effect							
2.5		ation to eyes and skin near	affected areas. Add	itionally. h	iah concentrations of	vapors co	an cause drowsiness	dizziness
	headaches ar				9.1 00110011110110 01	· apois c	an caose arowsiness	, dizziiicss,
2.6	Chronic Health Effe	ects:						
0.5		nay accentuate any pre-ex	isting dermatitis cond	dition. Nor	ne known			
2.7	Target Organs:	enizatory system						
	Eyes, skin & re	spiratory system.						
NA -	: Not Available:	ND = Not Determined; NE =	: Not Established: C =	Cailing Liv	nit: See Section 14 for	Addition	al Definitions of Tors	r Usad
		nuired information is include		•				3 USECI

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 10/22/2009 3. COMPOSITION & INGREDIENTS EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC **OSHA** OTHER ppm ppm ppm ES-ES-ES-CHEMICAL NAME(S) CAS No. RTECS No. **EINECS No.** % TLV STEL **TWA** STEL PEAK PEL **STEL** IDLH **ACETONE** 67-64-1 AL3150000 200-662-2 ≤ 85.0 1800 750 1185 2375 NF 2400 1000 NE ETHOXYDIGLYCOL 111-90-0 KK8750000 203-919-7 ≤ 15.0 NA NA NF NF NF NA NA NA MALALEUCA ALTERNIFOLIA 68647-73-4 RJ3697600 285-377-1 ≤ 1.0 NA NA NF NF NF NA NA NA (TEA TREE) OIL 4. FIRST AID MEASURES First Ald: INGESTION: If ingested, do not induce vomiting! If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give water or milk to an unconscious person. Contact the nearest Polson 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. SKIN & EYES: If product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. Open and close eyelid(s) to ensure thorough irrigation. Seek immediate medical attention. If problem persists, seek immediate medical attention. If irritation occurs & product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with plenty of soap and water. Remove all contaminated clothing, including footwear and wash thoroughly before reuse. If irritation, redness or swelling persists, consult a physician immediately. INHALATION: Remove victim to fresh air at once. If breathing stops, perform artificial respiration. Seek immediate medical attention. Medical Conditions Aggravated by Exposure: 4.2 HEALTH 1 Pre-existing dermatitis, other skin conditions, and disorders of the target organs (eyes, **FLAMMABILITY** 3 skin, respiratory system). REACTIVITY 0 PROTECTIVE EQUIPMENT B **SKIN EYES** 5. FIREFIGHTING MEASURES Flashpoint & Method: 5.1 17 °C (62 °F) 5.2 Autolgnition Temperature: NA 5.3 Flammability Limits: 2.5 Lower Explosive Limit (LEL): Upper Explosive Limit (UEL): 12.8 Fire & Explosion Hazards: 5.4 This product is an extremely flammable liquid. When involved in a fire, this product may ignite and decompose to form toxic gases (e.g., CO, CO<sub>2</sub>, NO<sub>x</sub>). Extinguish all nearby sources of ignition as vapors may travel and flash back. Extinguishing Methods: Water, Foam, CO<sub>2</sub>, Dry Chemical 5.6 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. HAZCHEM CODE: 2YE

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### 6. ACCIDENTAL RELEASE MEASURES

6.1 Splli:

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  $\geq 1$  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 this material. Avoid breathing the vapors generated by this product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans). Wash exposed skin thoroughly with plenty of soap & water after using this product. If necessary, use a moisturizer after washing. Do not eat, drink, or smoke while handling this product.

7.2 Storage & Handling:

Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans). Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. Keep away from incompatible materials listed in Section 10. Do not store in damaged or unmarked containers or storage devices. Keep containers securely closed when not in use. Open slowly on a level, stable surface. Empty containers may contain residual amounts of this product; therefore, empty containers should be handled with care. As a precaution against exposure to the eyes, nose, throat and face, this product should not be stored higher than waist level. Keep away from children at all times!

7.3 Special Precautions:

None.

### 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1 Ventilation & Engineering Controls:

Use with adequate ventilation (e.g., local exhaust ventilation, fans). Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station).

8.2 Respiratory Protection:

No special respiratory protection is required under typical circumstances of use or handling. In instances where vapors or sprays of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia.

8.3 Eye Protection:

Wear protective eyewear (e.g., safety glasses with side-shield) at all times when handling this product. Always use protective eyewear when cleaning spills or leaks. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants.

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.,  $\geq 1$  gallon), wear rubber or impervious plastic gloves.

8.5 Body Protection

No apron required when handling small quantities.

When handling large quantities (e.g.,  $\geq$  1 gallon), eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product, wash any exposed areas thoroughly with soap and water.

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		9. PHYSICAL & CHEMICAL PROPERTIES				
.1	Density:	0.80				
.2	Bolling Point:					
.3	Melting Point:	56 °C (133 °F)				
7.4	Evaporation Rate:	ND (1.0 / n. 0.4 n 1.0)				
7.5	Vapor Pressure;	< 1.0 (n-BuAc = 1.0)				
7.6		ND NE				
	Molecular Weight:	NE CONTRACTOR OF THE CONTRACTO				
	7 Appearance & Color: Clear liquid with a fragrant, mint-like odor.					
9.8	Odor Threshold:	NE				
7.9	Solubility:	Soluble in water, alcohol and organic solvents				
9.10	pH	NA .				
9.11	Viscosity:	< 500 cPs				
7.12	Other Information:	NA NA				
	w	10. STABILITY & REACTIVITY				
10.1	Stability:					
		mblent conditions when stored properly.				
10.2	Hazardous Decomposition Products:					
ł	If exposed to <u>extremely</u> oxides of carbon & nitrog	<u>high temperatures,</u> products of thermal decomposition may include irritating vapors and toxic gases (e				
0.3	Hazardous Polymerization:	епј.				
0.5	Will not occur.					
0.4	Conditions to Avoid:					
	Exposure or contact to e	dreme temperatures, incompatible chemicals, strong light sources, sparks, flame.				
10.5	Incompatible Substances:					
10.5	·	es, acids, alkalis or potassium t-butoxide.				
0.5	·	es, acids, alkalis or potassium t-butoxide.				
10.5	·	25, acids, alkalis or potassium t-butoxide.  11. TOXICOLOGICAL INFORMATION				
10.5	Strong oxidizers, peroxid	11. TOXICOLOGICAL INFORMATION				
	Strong oxidizers, peroxiders  Toxicity Data: This product has NOT be	11. TOXICOLOGICAL INFORMATION  een tested on animals to obtain toxicology data. There are toxicology data for the components of				
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1.1 1.2 1.3	Toxicity Data: This product has NOT be product, which are found Acute Toxicity: See Section 3.5 Chronic Toxicity: See Section 3.6 Suspected Carcinogen: No Reproductive Toxicity: This product is not reported the productive toxicity: This product is not reported to the productive toxicity: This product is not reported toxicity: Teratogenicity:	11. TOXICOLOGICAL INFORMATION  ten tested on animals to obtain toxicology data. There are toxicology data for the components of in scientific literature. These data have not been presented in this document.  and to cause reproductive toxicity in humans.				
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 10/22/2009 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 available, but are not presented in this MSDS. Effects on Plants & Animals: 12.2 There is no specific data available for this product. Effects on Aquatic Life: There is no specific data available for this product. Releases of large volumes may be harmful or fatal to overexposed aquatic life. Aquatic toxicity data for components of this product are available, but are not presented in this MSDS. 13. DISPOSAL CONSIDERATIONS 13.1 Waste Disposal: Dispose in accordance with local, state and Federal hazardous waste laws. 13.2 Special Considerations: U.S. EPA Characteristic Waste: D001 (ignitability) 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. 49 CFR (GND): CONSUMER COMMODITY, ORM-D UN1090, ACETONE SOLUTIONS, 3, II (> 1.0 L) 14.2 IATA (AIR): CONSUMER COMMODITY, 9, ID8000 (≤ 0.5 L) UN1090, ACETONE SOLUTIONS, 3, II (> 0.5 L) 14.3 IMDG (OCN): UN1090, ACETONE SOLUTIONS, 3, II, LTD QTY (≤ 1.0 L) UN1090, ACETONE SOLUTIONS, 3, II (> 1.0 L) ORM-D 14.4 TDGR (Canadian GND): MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (≤ 1.0 L) UN1090, ACETONE SOLUTIONS, 3, II (> 1.0 L) 14.5 ADR/RID (EU): UN1090, ACETONE SOLUTIONS, 3, II, ADR, LTD QTY (≤ 1.0 L) UN1090, ACETONE SOLUTIONS, 3, II, ADR (> 1.0 L) MEXICO (SCT): 14.6 UN1090, SOLUCIONES DE ACETONA, 3, II, CANTIDAD LIMITADA (≤ 1.0 L) 14.7 ADGR (AUS): UN1090, ACETONE SOLUTIONS, 3, II, LTD QTY (≤ 1.0 L) UN1090, ACETONE SOLUTIONS, 3, II (> 1.0 L)

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards | MSDS Revision: 2.0 MSDS Revision Date: 10/22/2009 15. REGULATORY INFORMATION 15.1 SARA Reporting Regulrements: This material contains Diethylene glycol monoethyl ether (listed as ethoxydiglycol), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373. 15.2 SARA Threshold Planning Quantity: NA TSCA Inventory Status: 15.3 All components of this product are listed in the TSCA Inventory or are exempt. 15.4 CERCLA Reportable Quantity (RQ): Acetone: 2270 kg; 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 Canadlan 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. 15.7 State Regulatory Information: Ingredients in this mixture on found on the following state criteria lists: California OSHA Hazardous Substances List Acetone **Delaware Air Quality Management List** Acetone Massachusetts Hazardous Substances List Acetone Minnesota Hazardous Substances List Acetone, Ethoxydiglycol New York List of Hazardous Substances Acetone Pennsylvania Hazardous Substances List Acetone, Ethoxydiglycol Washington Permissible Exposure Limits for Air Contaminants Acetone Wisconsin Hazardous Substances List Acetone 67/548/EEC (European Union) Requirements: The primary component of this product is listed in Annex I of EU Directive 67/548/EEC: Acetone: Flammable (F). R: 11-36-66-67 – Highly flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizzlness. S: 9-16-23-33 - Keep container in a well-ventilated place. Keep away from sources of ignition - No smoking. Do not breathe gas, fumes, vapor or spray. Take precautionary measures against static discharges. Ethoxydiglycol: Irritating (Xi) R: 36 Irritating to eyes. S: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. HAZCHEM CODE: 2YE Poison Schedule: None Allocated

 $0.5 \cdot 1$ 

P.O. Box 787

Sisters, OR. 97759-0787 +1 (310) 370-3600 phone +1 (310) 370-5700 fax

http://www.shipmate.com/

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 10/22/2009 16. OTHER INFORMATION 16.1 Other Information: Keep out of reach of children. Do not take internally. Store in a cool, dry place. Keep away from heat and open flame. 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. 16.4 OPI Products, Inc. 13034 Saticoy Street  $0.P \cdot I$ No. Hollywood, CA 91605 USA +1 (818) 759-2400 phone +1 (818) 759-5770 fax http://www.opi.com/ 16.5 Prepared by: ShipMate, Inc.

Training & Consulting

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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
---------	----------------------------------

#### **EXPOSURE LIMITS IN AIR:**

ACGIH American Conference on Governmental Industrial Hygier	
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:

A	B			
В	8			
С	8	F.	~ h	
D			~	
D E	<b>⊕</b>			











Synthetic Apron

Dust & Vapor Respirator









Gloves

Alrline Hood/Mask Respirator 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

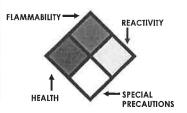
#### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

#### FLAMMABILITY LIMITS IN AIR:

Autolgnition	Minimum temperature required to initiate combustion
Temperature	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:

	(i
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
TDIa	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		
NDSL		
PSL Canadian Priority Substances List		
TSCA U.S. Toxic Substance Control Act		
EU	European Union (European Union Directive 67/548/EEC)	

#### EC INFORMATION:

F		17			<b>9</b> ;		
С	E	F	N	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxlc	Intant	Harmful