MATERIAL SAFETY DATA SHEET

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MSDS-004

Prep	pared to OSHA,	ACC, ANSI,	NOHSC, WHM	IS & 2001/58 E	C Standards	MSDS F	Revision: 1	1.2	MSDS	Revision D	ate: 04/1	8/2008
				1. PRO	DUCT IDE	NTIFIC	ATION					
1.1	Product Name:											
	ACETONE											
1.2	Chemical Name:											
	2-PROPANON	E										
1.3	Synonyms:											
1.4	NA Trade Names:											
1.4	NA											
1.5	Product Use:											
	PROFESSIONA	L OR SUNDE	RY USE ONLY									
1.6	Manufacturer's Na											
1 7	OPI PRODUCT	•										
1.7	Manufacturer's Ac		O. HOLLYWOO	D CA 91405 II	ε Δ							
1.8	Emergency Phone		O. HOLLIWOO	D, CA 71003 0.	<i>,</i> ,							
			527-3887 /	+1 (800) 424	4-9300							
1.9	Business Phone:											
	+1 (818) 759-2	2400 / +1 (80	00)-341-9999									
				2 1147	ADD IDEN	ITIEIC	ATION					
2.1	Hozord Identificati	on.		Z. ПАZ	ARD IDEN	VIIFICA	AIION					
2.1	Hazard Identification: Flammable liquid. This product is classified as a hazardous substance and as dangerous goods according to the classification criteria of NOHSC and ADG Code (Australia).				tion criteria							
2.2	Routes of Entry:			Inhalation:	YES	Ab	sorption:		YES	Ingestion	า:	YES
2.3	Effects of Exposure											
	INGESTION:	-	is swallowed, ı	•		•				-	-	
	EYES & SKIN:		may produce ion, ulceration									
			urns and eye (
			itation and wa								product	can cause
		-	in reactions (e	-			_	-	· -			
	INHALATION:		this product is of overexpos									
			ated vapors ca									
		Odor may	give some wo	rning of expos	ure, but odor	fatigue n	nay occu	r				
2.4	Symptoms of Over								_			
		_	xposure may i Itering. The pi					_				
	repeated exp	_	ileting. The pi	ouder cuit ec	aose anergie	JKIII ICUC		g., rasire.	, wens, .	acimamis	opon pi	ololigea ol
2.5	Acute Health Effec	cts:										
			es and skin ned	ar affected are	as. Addition	ally, high	concentro	ations of	vapors c	an cause o	drowsines	s, dizziness,
2.6	Chronic Health Eff											
2.0	The material may accentuate any pre-existing dermatitis condition. None known											
2.7	, , , , , , , , , , , , , , , , , , , ,											
	Eyes, skin & re	spiratory sy	/stem.									
			3. COI	MPOSITIO	N & INGR	EDIEN1	INFO	RMATI	ON			
								EXP	OSURE LIM	AITS IN AIR	(mg/m³)	
							ACGIH	l - ppm		OSHA - pp	m	OTHER
	CHEMICAL NA	ME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	PEL	STEL	IDLH	
ACET	ONE		67-64-1	AL3150000	200-662-2	> 90.0	500	750	1000	1000	NE	
			-	•	•	•	•	•	•	•	•	•
NΙΛ	- Not Available	ND - Not F	Octorminad: NE	Not Establis	had C Call	na Limit: 9	Soo Soction	on 16 for	A ddition	al Dofinition	ns of Torm	as Usod

NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2004 format.

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 1.2 MSDS Revision Date: 04/18/2008 4. FIRST AID MEASURES First Aid: 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 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. 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. 4 2 Medical Conditions Aggravated by Exposure: HEALTH 1 Pre-existing dermatitis, other skin conditions, and disorders of the target organs (eyes, 3 **FLAMMABILITY** skin, respiratory system). REACTIVITY 0 PROTECTIVE EQUIPMENT В **SKIN EYES** 5. FIREFIGHTING MEASURES Flashpoint & Method: -18°C (0°F) 5.2 Autoignition Temperature: 869°F 5.3 Flammability Limits: Lower Explosive Limit (LEL): 2.5 Upper Explosive Limit (UEL): 12.8 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, CO₂, NO_x). Extinguish all nearby sources of ignition as vapors may travel and flash back. Extinguishing Methods: HazChem Code: 2YE Hazard Identification Number: 33 Water, Foam, CO₂, Dry Chemical 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. 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

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.

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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.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Density:	0.791
9.2	Boiling Point:	133 °F
9.3	Melting Point:	ND
9.4	Evaporation Rate:	< 1.0 (n-BuAc = 1.0)
9.5	Vapor Pressure:	ND
9.6	Molecular Weight:	NE
9.7	Appearance & Color:	Clear liquid with a sweet pungent odor.
9.8	Odor Threshold:	NE
9.9	Solubility:	Soluble in water.
9.10	Ph	NA
9.11	Viscosity:	< 500 cPs
9.12	Other Information:	NA

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	10. STABILITY & REACTIVITY
.1	Stability:
	Relatively stable under ambient conditions when stored properly.
2	Hazardous Decomposition Products:
	If exposed to <u>extremely high temperatures</u> , products of thermal decomposition may include irritating vapors and toxic gases (e.g. oxides of carbon & nitrogen).
3	Hazardous Polymerization:
	Will not occur.
4	Conditions to Avoid:
	Exposure or contact to extreme temperatures, incompatible chemicals, strong light sources, sparks, flame.
5	Incompatible Substances:
	Strong oxidizers, peroxides or strong acids.
	11. TOXICOLOGICAL INFORMATION
1	Toxicity Data:
	This product has NOT been tested on animals to obtain toxicology data. There are toxicology data for the components of t product, which are found in scientific literature. These data have not been presented in this document.
2	Acute Toxicity:
-	See Section 2.5
3	Chronic Toxicity:
	See Section 2.6
1	Suspected Carcinogen: No
;	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.
	Teratogenicity:
	This product is not reported to cause teratogenic effects in humans.
	Reproductive Toxicity: This product is not reported to cause reproductive effects in humans.
ó	Irritancy of Product:
	See Section 2.3
7	Biological Exposure Indices: NE
8	Physician Recommendations:
	Treat symptomatically.
	12. ECOLOGICAL INFORMATION
1	Environmental Stability: The components of this product will slowly degrade over time into a variety of organic compounds. Specific environmental do
	available for the components of this product are available, but are not presented in this MSDS.
2	Effects on Plants & Animals:
$\overline{}$	There is no specific data available for this product.
3	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 li Aquatic toxicity data for components of this product are available, but are not presented in this MSDS.
	13. DISPOSAL CONSIDERATIONS
1	Waste Disposal: Dispose in accordance with local, state and Federal hazardous waste laws.
2	Special Considerations:

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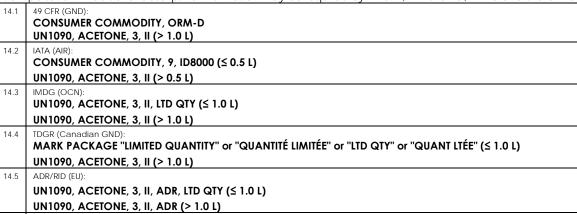
UN1090, ACETONA, 3, II, CANTIDAD LIMITADA (≤ 1.0 L)

MSDS Revision: 1.2

MSDS Revision Date: 04/18/2008

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.





15. REGULATORY INFORMATION

15.1 SARA Reporting Requirements:

NA

14.6

15.2 SARA Threshold Planning Quantity:

NA

15.3 TSCA Inventory Status:

MEXICO (SCT)

All components of this product are listed in the TSCA Inventory or are exempt.

15.4 CERCLA Reportable Quantity (RQ):

Acetone - 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.



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 New York List of Hazardous Substances Acetone Pennsylvania Hazardous Substances List Acetone Washington Permissible Exposure Limits for Air Contaminants Acetone Wisconsin Hazardous Substances List Acetone

15.8 67/548/EEC (European Union) Requirements:

The primary component of this product is listed in Annex I of EU Directive 67/548/EEC:

<u>Acetone</u>: 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 dizziness. 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.





http://www.shipmate.com/

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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:			
	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 & 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	Prepared for: OPI Products, Inc. 13034 Saticoy Street No. Hollywood, CA 91605 USA +1 (818) 759-2400 phone +1 (818) 759-5770 fax http://www.opi.com/			
16.5	Prepared by:			



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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 Hygienists	
TLV	Threshold Limit Value	
OSHA	U.S. Occupational Safety and Health Administration	
PEL	PEL Permissible Exposure Limit	
IDLH	IDLH Immediately Dangerous to Life and Health	

FIRST AID MEASURES.

111017112711	
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.

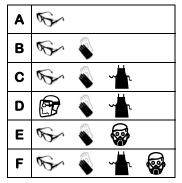
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

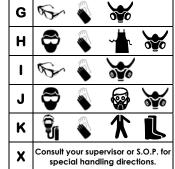
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

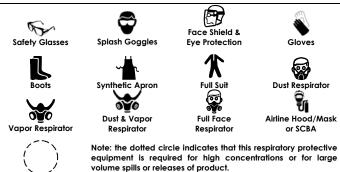
0	Minimal Hazard	
1	Slight Hazard	
2 Moderate Hazard		
3	Severe Hazard	
4	Extreme Hazard	



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

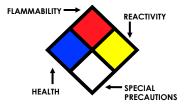
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

Autoignition 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
1	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
-₩ -	Use No Water
OX	Oxidizer



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the
	exposed animals s
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
TC, TCo, LCio, & LCo	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:

		M	*		Q	×	X
С	E	F	N	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful