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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision: 2.0

SDS Revision Date: 12/31/2013

		1. 1	PRODUC						-				
.1	Product Name:	LM M	OTOR OII	SAVER									
.2	Chemical Name:	-	n Oil Mixture										
3	Synonyms:	NA											
4	Trade Names:	LM Motor	Oil Saver										
5	Product Use:	Oil Additiv	/e										
6	Distributor's Name:	Worldpad	c, Inc.										
7	Distributor's Address:	37137 Hi	ckory Street, N	lewark, CA 945	60 USA								
В	Emergency Phone:	INFOTE	RAC: +1 (80	00) 535-5053	3 / +1 (3	<mark>52) 323-</mark> 3	500 (CON.	TRAC	T 84	261)		
9	Business Phone / Fax:	+1 (510)	608-5525 / +1	(510) 742-9262	2								
			2. HA	ZARDS II	DENTI	FICATION)N						
1	Hazard Identification:	This prod		d as a hazardo				ngerou	s good	ds acco	ording	to	
		the classi	fication criteria	of [NOHSC: 1	088 (2004	i)] and ADG	Code (Austra	ılia).		ŭ		
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			•	nts (P): P261	- Avoid	breathing m	ist/spra	avs F	272 -	Conta	aminat	ed	
				ot be allowed o									
				: IF SWALLO									
				1 - Do NOT inc									
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				before reuse									
				enses treatme								-	•
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		Skin: Ingestion	May ca lead to : May ca	ause irritation, of dermatitis.	defatting, sensation	drying and of the mou	cracking	g of sl throat,	kin. Pro abdon	olonge	d and	repeat	estinal irritation
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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 2.0 SDS Revision Date: 12/31/2013 3. COMPOSITION & INGREDIENT INFORMATION – cont'd EXPOSURE LIMITS IN AIR (mg/m3) ACGIH ppm ppm ppm FS. FS-FS-RTECS No. EINECS No. STEL PEAK STEL IDLH OTHER CHEMICAL NAME(S) CAS No STEL **TWA** 69011-36-5 NA 500-241-6 1-5 NA NA NF NF NF NA NA NA ISOTRIDECANOL, ETHOXYLATED DISTILLATES (PETROLEUM), 94741-88-4 NA NA 1-5 (5) NA (5) NF NF (5) (10)* NA * NIOSH SOLVENT-REFINED HEAVY **PARAFFINIC** 4. FIRST AID MEASURES First Aid: DO NOT INDUCE VOMITING. Contact Infotrac +1 (800) 535-5053 or the nearest Poison Control Ingestion: Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 Eyes: minutes, holding eyelid(s) open to ensure complete flushing. If the eyes or face become swollen during or following use, consult a physician or emergency room immediately. Remove contaminated clothing and wash affected areas with soap and water. If discomfort persists Skin: and/or the skin reaction worsens, contact a physician immediately. Do not wear contaminated clothing until after it has been properly cleaned. Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial Inhalation: respiration. Seek immediate medical attention. Medical Conditions Aggravated by Persons with pre-existing central nervous system (CNS) **HEALTH** 2 Exposure disease, neurological conditions, skin disorders, chronic **FLAMMABILITY** 1 respiratory diseases, or impaired liver or kidney function should **PHYSICAL HAZARDS** 0 avoid exposure. PROTECTIVE EQUIPMENT В **EYES** SKIN 5. FIREFIGHTING MEASURES Fire & Explosion Hazards: High heat will cause product to boil, evolving vapor that could cause explosive rupture of closed containers. Avoid all ignition sources such as sparks, heat and open flames. Product or residue can ignite explosively. If involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., CO, CO₂, and NOx), smoke, hydrocarbons and their derivatives, metal oxides, hydrogen sulfide (H₂S), aldehydes & other toxic pyrolysis products. 5.2 Extinguishing Methods: Water, Foam, CO₂, Dry Chemical, low velocity water fog, Halon (if permitted) 5.3 Firefighting Procedures: As with any fire, firefighters should wear appropriate protective equipment including a MSHA/NIOSH approved or equivalent self-contained breathing apparatus (SCBA) and protective clothing. Treat as hot oil. Hazardous decomposition products may be released. Thermal degradation may produce oxides of carbon, and/or nitrogen, hydrocarbons and/or derivatives. Fire should be fought from a safe distance. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. 6. ACCIDENTAL RELEASE MEASURES Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Spills Equipment (PPE). Use safety glasses or safety goggles and face shield; use gloves and other protective clothing (e.g., apron, boots, etc.) to prevent skin contact. Small Spills: Wear appropriate protective equipment including gloves and protective eyewear. Use a noncombustible, inert material such as vermiculite or sand to soak up the product and place into a container for later Large Spills: Keep incompatible materials (e.g., oxidizers, strong acids, alkalis) away from spill. Stay upwind and away from spill or release. Isolate immediate hazard area and keep unauthorized personnel out of area. Stop spill or release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant. Recover as much free liquid as possible and collect in acid-resistant container. Use absorbent to pick up residue. Avoid discharging liquid directly into a sewer or surface waters.



9.14

9.15

9.16

9.17

Autoignition Temperature:

Viscosity:

Other Information:

Decomposition Temperature:

NA

NA

VOC content: 9%

Dynamic: 1299 mPa-s (1299 cPs) @ 20 °C (68 °F)

SAFETY DATA SHEET

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WP-040 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 2.0 SDS Revision Date: 12/31/2013 7. HANDLING & STORAGE INFORMATION Avoid breathing mists or spray. Avoid eye and skin contact. Wear protective equipment when handling product. Work & Hygiene Practices: Keep out of the reach of children. Do not eat, drink or smoke when handling this product. Wash hands and exposed skin areas with soap and warm water thoroughly after handling. Do not expose to heat and flame. Use only in ventilated areas. Immediately clean-up and decontaminate any spills or residues. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material 7.2 Storage & Handling: Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct sunlight. Store in closed containers. Avoid temperatures above 40°C (120°F). Keep away from incompatible substances (see Section 10) and food/drink. Protect containers from physical damage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. 7.3 Special Precautions: Empty containers may retain hazardous product residues. **EXPOSURE CONTROLS & PERSONAL PROTECTION** 8. 8.1 Ventilation & Engineering Controls: Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eve-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: Avoid eye contact. Safety glasses with side shields must be used when handling or using this product. A protective face shield is also recommended. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (FU) Hand Protection: 8.4 Wear protective, chemical-resistant gloves (e.g., neoprene, nitrile) when using or handling this product. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. 8.5 Body Protection: Not required under normal conditions of use. A chemical resistant apron and/or protective clothing are recommended when handling or using large quantities (e.g., > 5 gallons (18.9 L)) of this product. Protective working garments should meet EU Standard EN 344 or equivalent. 9. PHYSICAL & CHEMICAL PROPERTIES Appearance: Clear to light yellow paste-like liquid 9.2 Odor: Mild petroleum odor 9.3 Odor Threshold: NΑ 9.4 NΑ 9.5 Melting Point/Freezing Point NA 9.6 Initial Boiling Point/Boiling Range: NA 9.7 Flashpoint: > 232 °C (> 450 °F) 9.8 Upper/Lower Flammability Limits: NA 9.9 Vapor Pressure NA 9.10 Vapor Density NA 9.11 Relative Density: 0.896 g/cm3 @ 20 °C (68 °F) 9.12 Solubility Insoluble in cold water 9.13 Partition Coefficient (log Pow): NA



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 2.0 SDS Revision Date: 12/31/2013 10. STABILITY & REACTIVITY 10.1 Stability: This product is stable under normal storage and use conditions. 10.2 Hazardous Decomposition Products: Oxides of carbon (CO, CO₂), sulfur (SO_x), nitrogen (NO_x), and oxides of phosphorous, calcium and zinc. Hydrogen sulfides and alkyl mercaptans may also result 10.3 Hazardous Polymerization: Will not occur. Conditions to Avoid 10.4 Open flames, high heat and direct sunlight. Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or other sources of ignition. 10.5 Incompatible Substances: Strong oxidizing agents, acids or alkalis. 11. TOXICOLOGICAL INFORMATION Absorption: YES Ingestion: YES 11 1 Routes of Entry: 11.2 Toxicity Data: This product has not been tested on animals to obtain toxicological data. Toxicology data for some of the components of this product, found in scientific literature, are presented below: <u>Distillates (Petroleum), Solvent-Dewaxed Heavy Paraffinic</u>: LD₅₀ (oral, rat) > 5000 mg/kg; LD₅₀ (dermal, rabbit) > 5000 mg/kg; 2-Butoxyethyl Acetate: LD₅₀ (oral, rat) 1880 mg/kg; Distillates (Petroleum), Solvent-Refined Heavy Paraffinic: LD₅₀ (oral, rat) > 5000 mg/kg; LD₅₀ (dermal, rabbit) > 5000 mg/kg. 11.3 Acute Toxicity: See section 2.4 11.4 Chronic Toxicity: See section 2.5 11.5 Suspected Carcinogen: This product is or contains a component that is not classifiable as to its carcinogenicity to humans based on its IARC, ACGIH, NTP, or EPA classification. 2-Butoxyethyl Acetate is listed by ACGIH as Group A3: Confirmed animal carcinogen with unknown relevance to humans. 11.6 Reproductive Toxicity: This product is not reported to cause reproductive toxicity in humans. Mutagenicity This product is not reported to produce mutagenicity 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. 11.7 Irritancy of Product: See Section 2.3 11.8 Biological Exposure Indices: NA Physician Recommendations: 11.9 Treat symptomatically. 12. ECOLOGICAL INFORMATION Environmental Stability: 12.1 There is no specific data available for this product. 12.2 Effects on Plants & Animals: There is no specific data available for this product. Effects on Aquatic Life Distillates (Petroleum), Solvent-Dewaxed Heavy Paraffinic: EC50 (Algae, 96h): > 1000 mg/L; 2-Butoxyethyl Acetate: EC₅₀ (Daphnia magna, 48h): > 37 mg/L; Isotridecanol, Ethoxylated: EC₅₀ (Algae, 72h): > 10 mg/L 13. DISPOSAL CONSIDERATIONS Waste Disposal: 13.1 Dispose of in accordance with federal, state, provincial and local regulations. The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. Dispose of surplus and non-recyclable products through a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should, at all times, comply with the requirements of environmental protection and waste disposal legislation and any regional or local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers Special Considerations: 13.2 Used oil may be recyclable. Do not cut, weld or grind on used containers unless they have been cleaned internally thoroughly. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers 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, SCT, ADGT, ADR and the CTDGR 49 CFR (GND): NA1993, COMBUSTIBLE LIQUIDS, N.O.S., 3, III Excepted from regulation per 49 CFR §173.121, IP VOL ≤ 450 L. 14.2 IATA (AIR): **NOT REGULATED** IMDG (OCN): 14.3 **NOT REGULATED** TDGR (Canadian GND): 14.4 NOT REGULATED 14.5 ADR/RID (EU): NOT REGULATED NOT REGULATED 14.6 SCT (MEXICO): 14.7 ADGR (AUS): NOT REGULATED



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		15. REGULATORY INFORMATION
15.1	SARA Reporting Requirements:	This product contains zinc compounds, substances subject to SARA Title III, section 313 reporting requirements.
15.2	SARA Threshold Planning Quantity:	NA
15.3	TSCA Inventory Status:	All components of this product are listed in the TSCA Inventory or are exempt.
15.4	CERCLA Reportable Quantity (RQ):	NA
15.5	Other Federal Requirements:	NA NA
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the Controlled Products Regulations (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:	No 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 (CA), 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:	The primary components of this product are not listed in Annex I of EU Directive 67/548/EEC. Irritant (Xi). Risk Phrases (R): R36/37/38-51/53-65 – Irritating to eyes, respiratory system and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful – may cause lung damage if swallowed. Safety Phrases (S): S(2)-23-24-62 - Keep out of the reach of children. Do not breathe mists/vapors/spray. Avoid contact with skin. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label where possible.
10.1	Lou to a	16. OTHER INFORMATION
16.1	Other Information:	DANGER! MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAY. May cause an allergic skin reaction. Wear protective gloves/eye protection. If swallowed, immediately call a Poison Center or doctor/physician. Avoid breathing mist/sprays. If skin irritation or rash occurs: Get medical advice/attention. KEEP OUT OF REACH OF CHILDREN.
16.2	Terms & Definitions:	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 & Worldpac'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:	Worldpac, Inc. 37137 Hickory Street Newark, CA 94560 USA Tel: +1 (510) 608-5525 Fax: +1 (510) 742-9262 http://www.worldpac.com
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, OR 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 No.	Chemical Abstract Service Number

EXPOSURE LIMITS IN AIR:

ACGIH	ACGIH American Conference on Governmental Industrial Hygienists	
TLV	TLV Threshold Limit Value	
OSHA	U.S. Occupational Safety and Health Administration	
PEL	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
ı		and provide oxygen to the hody

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

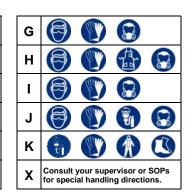
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α			
В			
С		型	
D	B	型	
Е			
F			







Full Face Respirator

Synthetic Apron



(Cy Face Shield & Protective Eyewear







Dust Respirator

Dust & Vapor Half-Mask Respirator

Respirator

Airline Hood/Mask or SCBA

OTHER STANDARD ABBREVIATIONS:

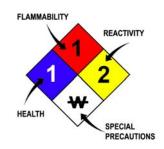
NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

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 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
W	Use No Water
ОХ	Oxidizer
TREFOIL	Radioactive



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 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	HMIS 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			(2)	\bigcirc	®		ĸ	
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F	
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive	

EC (67/548/EEC) INFORMATION:

I.		M	¥			×	×
С	E	F	N	0	Т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

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