WOR	LD <mark>PAC ::::</mark> jilling	MATE	RIALS	SAFET	Y D	A1	Α	SH	EE	Т			e 1 of 6 - 142	
Prep	pared to OSHA, ACC, A	ANSI, NOHSC, WHM	IS & 2001/58 E	C Standards	MSDS I	Revisio	n: 2.0		MSD	S Revis	ion Da	ate:	03/07	1/2008
1. P	RODUCT IDENTIFIC	CATION					С	HEM	ICAL	RESP	PONS	E CA	RD:	95
1.1	Product Name:	HONDA O5	CVTF (US))			R	ESPON	ISE	ĺ	CU.	2		
1.2	Chemical Name:	See ingredients lis	sted in section	2			TE	EAM P	PE:	$\mathbf{\nabla}$				
1.3	Synonyms:	Automatic Transm									<hr/>			
1.4	Trade Names:	NA					- N	/HMIS		(!))			
1.5	Product Use:	Automotive - Lub	ricant				н	EALTH	•					1
1.6	Manufacturer's Name:	Nippon Oil (USA)						LAMM		ITV∙				0
1.7	Manufacturer's Address:	300 Park Blvd., Suite		01421164				EACTI						0
1.8	Business Phone:			0145 05A								NI.		-
1.9		+1 (630) 875-9701					P	ERSUI		RUIE		IN:		Х
1.9	Emergency Phone:	CHEMTREC +1	(800) 424-9	9300/+1 (703	3) 527-3	3887								
			2. IDEN	ITIFICATIC	N OF	RISK	S							
2.1	Hazard Identification: This product is class NOHSC:1088 (2004) a				DANGE	ROUS	GOOD	s acco	ording	to the	class	ificatio	on crite	eria of
2.2	Routes of Entry: Effects of Exposure:		Inhalation:	YES	Ab	sorptic	on:	N	0	Inge	estion:		YE	S
2.4	EYES: This product can cause transient mild eye irritation with short-term contact with liquid sprays or mists. SKIN: This product can cause mild, transient skin irritation with short-term exposure. INGESTION: If swallowed, no significant adverse health effects are anticipated. Ingestion can cause a laxative effect. If aspirated into the lungs, liquid can cause severe lung damage or death. INHALATION: No significant adverse health effects are expected to occur upon short-term exposure to this product. Aspiration of liquid into the lungs can cause severe lung damage or death. Symptoms of Exposure: EYES: Irritation, redness, and watering. SKIN: Possible irritation, defatting, or dermatitis (rash), characterized by dry, scaling, red, itching skin. INGESTION: Laxative effects. Gastrointestinal discomfort, nausea and headache. INHALATION: May cause irritation to the upper respiratory system. Overexposure to sprays or mists may cause chemical pneumonitis. Acute Health Effects: EYES: Slightly irritating, but will not injure eye tissue. SKIN: Low toxicity. Frequent or prolonged contact may irritate the skin.													
2.6	INGESTION: Low toxicity. Laxative effects. Gastrointestinal discomfort, nausea and headache. INHALATION: Negligible. At elevated temperatures or through mechanical action, may form vapors, mists or fumes that may be irritating to the eyes, nose, throat and lungs. Chronic Health Effects:													
2.7	Contains a petroleum-based mineral oil. Prolonged or repeated skin contact can cause mild irritation and inflammation characterized by drying, cracking, (dermatitis) or oil acne. Repeated or prolonged inhalation of petroleum-based mineral oil mists at concentrations above applicable workplace exposure levels can cause respiratory irritation or other pulmonary effects.													
	None reported by the	e manufacturer.												
2.8	Toxicological Properties: None reported by the	e manufacturer.												
								<u> </u>						
		3. 0		<u>ON & INGRE</u>	DIENT I	NFOR	MATI						<u></u>	
	EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC OSHA													
	ppm ppm ppm OTH						OTHER							
	CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- Stel	ES- PEAK	TLV	STEL	IDLH	
MINE	RAL OIL	8012-95-1	PY8030000	NA	≥ 70.0	(5)	(10)	(5)	NF	NF	(5)	NA	NA	MIST
	RIETARY INGREDIENT	NA	NA	NA	≤ 30.0	NA	NA	NF	NF	NF	NA	NA	NA	
	Not Available; ND ≡ Not Deter			•				Definition	is of Terr	ns Used				
NOTE	NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2004 format.													

MATERIAL SAFETY DATA SHEET

Page 2 of 6 WP-142

Prep	pared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision [Date: 03/01/2008			
	4. FIRST AID				
4.1	First Aid: <u>EYES</u> : Check for and remove contact lenses. Flush eyes with cool, clean, low-pressure water while occasionally eyelids. Seek medical attention if excessive tearing, redness, or pain persists. <u>SKIN</u> : Remove contaminated shoes and clothing. Wipe off excess material. Wash exposed skin with soap and				
	attention if tissue appears damaged or if irritation persists. Thoroughly clean contaminated clothing be contaminated leather goods. If material is injected under the skin, into muscle, or into the bloodstream, see immediately.	efore reuse. Discard ek medical attention			
	<u>INGESTION</u> : Do not induce vomiting unless directed to by a physician. Do not give anything to drink unless directed Never give anything by mouth to a person who is not fully conscious. Seek medical attention immediately. <u>INHALATION</u> : Vaporization is not expected at ambient temperatures. This material is not expected to cause				
4.2	disorders under anticipated conditions of use. In case of overexposure, move the person to fresh air. Medical Conditions Aggravated by Exposure: Personnel with pre-existing skin disorders should avoid repeated or prolonged contact with this product.				
	5. FIRE & EXPLOSION HAZARDS				
5.1	Flashpoint & Method: 76.7 °C (170 °F), COC				
5.2	Autoignition Temperature: NA				
5.3	Flammability Limits: Lower Explosive Limit (LEL): NA Upper Explosive Limit (UEL):	NA			
5.4	Fire & Explosion Hazards: This material can burn but will not readily ignite. This material will release vapors when heated above the flash point temperature that can ignite when exposed to a source of ignition. In enclosed spaces, heated vapor can ignite with explosive force. Mists or sprays may burn at temperatures below the flash point. Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and trace oxides of sulfur, phosphorus, zinc and nitrogen. Also, depending upon the conditions of use, low concentrations of hydrogen sulfide can be released.				
5.5	Extinguishing Methods: Dry chemical, foam, carbon dioxide, and water fog, as authorized.				
5.6	Firefighting Procedures: Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Avoid spraying water directly into storage containers because of danger of boilover. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies.				
	6. SPILLS & LEAKS				
6.1	Spills: Secure spill area, remove or minimize all sources of ignition, and maximize ventilation. Stop spill or leak at sour Deny entry to all unprotected individuals. Individuals involved in the cleanup must wear appropriate personal p Recover free liquid or cover with inert absorbent material and place into appropriate container(s) for disposal. Fe or cover with dry earth, sand, or other inert non-combustible absorbent material and place into waste contain Contain large spills to maximize product recovery or disposal. If necessary, dike well ahead of the spill to preve sewers or any natural waterway or drinking supply. Contact appropriate local and/or provincial authorities for reporting requirements. For water spills, remove from surface by skimming or with suitable absorbents. If a provincial environmental agencies, sinking and/or suitable dispersants may be used in unconfined waters. O disposal of recovered material. Ensure disposal on compliance with government requirements & secure conform regulations. Notify the appropriate federal & provincial authorities immediately. Take all additional action new remedy the adverse effects of the spill.	rotective equipment. or small spills, absorb ers for later disposal. ent runoff into drains, or assistance and/or llowed by federal & Consult an expert on mity to local disposal			
	7. STORAGE & HANDLING				
7.1	Work & Hygiene Practices: Use normal hygiene practices. Avoid breathing vapors. Avoid direct skin contact. Wash hands thoroughly after u before eating, drinking, or smoking.	sing this product and			
7.2	Storage & Handling: Use and store in a cool, dry, well-ventilated area. Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. Do not store in unmarked containers or storage devices.				
7.3	Special Precautions: Empty containers may contain product residue. Do not pressurize, cut, heat or weld empty containers. Do not reu without commercial cleaning or reconditioning.	use empty containers			

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MATERIAL SAFETY DATA SHEET

Page 3 of 6 WP-142

B. EXPOSURE CONTROL & PERSONAL PROTECTION Set Production Control of Argument Control The use of mechanical dilution ventilation is recommended to maintain aibome concentrations below the recommende or is agitated. Perspace of the explanation or misting is not expected at ambient temperatures. Therefore, the need for respiratory protection is not anticipate waportained exposure limits, whenever this material is used in a confined space, is heated above normal temperatures (up to 387 Vaportained exposure limits, whenever this material is used in a confined space, is heated above normal temperatures (up to 387 Vaportained exposure limits, whenever this material is used in a confined space, is heated above normal temperatures (up to 387 Vaportained (20 CR 1910) 34, or other equivalent intermational standards. Per Neckstone Safety glasses equipped with side shields should be adequate protection under most conditions of use. Wear goggles and/or fac shield is splashing or spraying is anticipated. Wear goggles and face shield if material is heated above 125 °F (51 °C). Have suitable requirements (20 CR 1910) 34, or other equivalent intermational standards. Per Neckstone Safety glasses continucted of chemical resistant materials such as negotene or heavy nitrile rubber if frequent or prolonged contact specied. Use heat protective gloves when handling product at elevated temperatures. Towood prograd and/or repeated xin contact. Use clean and imporvious protective clothing (a_n. neoprene or Tyvek®) if splashin removed promptly and discarded. Perspecied Dently: 0.858 g/cm ³ et 15°C 9. PHYSICAL & CHEMICAL PROPERTIES 0.858 g/cm ³ et 15°C 0.858	Prep	ared to OSHA, ACC,	, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 03/01/2008				
Image: second							
Be use of mechanical dilution ventilation is recommended to maintain aithome concentrations below the recommende occupational exposure limits, whenever this material is used in a confined space, is heated above normal temperatures (up to 38°C or is aglitated. 2 Respective productions Yaportation or misting is not exposure lamits, underever this material is used in a confined space, is heated above normal temperatures (up to 38°C or is aglitated. Yaportation or misting is not exposure of a ambient temperatures. Therefore, the need for respiratory protection is not anticipate under normal use conditions and with adequate ventilation. If deviated aithome concentrations above applicable workplace workplace texposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with adductive schedule be adequate protection under most conditions of use. Wear goggies and/or factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSH exposure lamits and ards. 3 Sep Andectone Use gloves constructed of chemical resistant materialis such as neoprene or heavy nitrile rubber if frequent or prolonged contact expected. Use head-protective gloves when handling product at elevated temperatures. 4 Hard/Pootenet P.PHYSICAL & CHEMICAL PROPERTIES 5 Vaportaceter 9. PHYSICAL & CHEMICAL PROPERTIES 6 Nak Nak 7 Perpenden direk of chemical resistant materialis should include long-sleeves, apron, boots and additional facial protection resport or reusing. Contaminated leather goods should be removed promptly and discarded. <tr< td=""><td>8.1</td><td>Ventilation & Engineering</td><td></td></tr<>	8.1	Ventilation & Engineering					
Vaporization or misting is not expected at ambient temperatures. Therefore, the need for respiratory protection is not anticipated under normal use conditions and with adequate vortiation. If evaluated athome concentrations above applicable workplac exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be use protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSH requirements (20 CFR 1910.134), or other equivalent international standards. 2 Experiments (20 CFR 1910.134), or other equivalent international standards. 3 Experiments (20 CFR 1910.134), or other equivalent international standards. 4 International standards. 5 Safety glasses equipped with side shields should be adequate protection under most conditions of use. Wear goggles and/a face shield if material is heated above 125 °F (51 °C). Have suitable eye wash water available. 3 Bed protection Avoid protonged and/or repeated skin contact. Use clean and impervious protective clothing (e.g., neoprene or Tyvek®) if splashin or spraiging conditions are present. Protective clothing should include long-sleeves, apron, boots and additional facial protection Remove oil contaminated clothing. Launder oil contaminated clothing before reusing. Contaminated leather goods should be moved giores face and additional facial protection and additional facial protection (additional facial should her device) in protective clothing face and/or face additional facial protection reusing. Contaminated clothing. Launder oil contaminated clothing closes and additional facial protection reusing. Contaminated clothing. Launder oil contaminated clothing face a		The use of mech occupational expo	The use of mechanical dilution ventilation is recommended to maintain airborne concentrations below the recommended occupational exposure limits, whenever this material is used in a confined space, is heated above normal temperatures (up to 38°C)				
under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be requirements (29 CFR 1910.134), or other equivalent international standards. 31 Safety glasses equipped with side should be adequate protection under most conditions of use. Wear goggles and/or fac shield if splashing or spraying is anticipated. Wear goggles and face shield if material is heated above 125 °F (51 °C). Have suitable eye wash water available. 41 Hardretectoric 41 Hardretectoric 42 Hardretectoric 43 Hardretectoric 44 Hardretectoric 45 Body Potoctoric Avoid prolonged and/or repeated skin contact. Use clean and impervious protective clothing (e.g., neoprene or Tyvek®) if splashin or spraying conditions are present. Protective clothing should include long-sleeves, apron, boots and additional facial protectol removed promptly and discarded. 71 Deresty: 0.858 g/cm*@15°C 72 Adding Point: NA 73 Meding Point: NA 74 Deresty: 0.858 g/cm*@15°C 74 Deresty: 0.858 g/cm*@15°C 74 Adding Point: NA 75	8.2						
Safety glasses equipped with side shelds should be adequate protection under most conditions of use. Wear goggles and/or fac shield if splashing or spraying is anticipated. Wear goggles and face shield if material is heated above 125 °F (51 °C). Have suitable eye wash water available. Hand Motaction: Use gloves constructed of chemical resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact expected. Use heat-protective gloves when handling product at elevated temperatures. 8/8 Avoid prolonged and/or repeated skin contact. Use clean and impervious protective clothing (e.g., neoprene or Tyvek®) if splashin or spraying conditions are present. Protective clothing should include long-sleeves, apron, boots and additional facial protection Remove oil contaminated clothing. Launder oil contaminated clothing before reusing. Contaminated leather goods should be removed promptly and discarded. 9/1 Density: 0.858 g/cm³ @ 15°C 9/2 Being horit: NA 9/3 Moting Point: NA 9/4 Vaporation Rate: Negligible 9/3 Moting Point: NA 9/4 Vaporation Rate: Negligible 9/3 Octaur threshold Slight mineral oil odor 9/3 Octaur threshold Slight mineral oil odor 9/3 Octau threshold Slight mineral oil close 9/3 Vacobity: In Soluble 9/3 Octau threshold Slight mineral oil close 9/3 DisO Extrac		under normal use exposure levels ar Protection factors requirements (29 C	conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace e anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used. vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA				
shield if splashing or spraying is anticipated. Wear goggles and face shield if material is heated above 125 *F (Š1 *Č). Have suitable systems water available. 84 Hand Protection: 85 Body Protection: 86 Body Protection: 87 Rody Protection: 88 Rody Protection: 89 Rody Protection: 80 Protection: 80 Rody Protection: 81 Rody Protection: 82 Rody Protection: 83 Rody Protection: 84 Hand Protection: 85 Rody Protection: 86 Rody Protection: 87 Rody Protection: 88 Rody Protection: 89 Rody Protection: 80 Protection: 81 Rody Protection: 82 Rody Rotection: 84 Hang Point: NA 94 Exeptration Rate: Negligible 95 Vapor Pressure #20 °C: NA 96 Modecut Weight: NA 97 Appear	8.3	Eye Protection:					
Bits Bits Bits 800 Procession Procession Procession 81 Bits Procession Procession Procession 81 Bits Procession Procession Procession Procession 81 Procession Procession Procession Procession Procession 81 Procession Procession Procession Procession Procession 81 Procession Procession Procession Procession Procession 82 Procession		shield if splashing o	or spraying is anticipated. Wear goggles and face shield if material is heated above 125 °F (51 °C). Have suitable				
expected. Use heat-protective gloves when handling product at elevated temperatures. 85 Body Protection: Avoid prolonged and/or repeated skin contact. Use clean and impervious protective clothing (e.g., neoprene or Tyvek®) if splashin or spraying conditions are present. Protective clothing should include long-sleeves, apron, boots and additional facial protection Remove oil contaminated clothing, Launder oil contaminated clothing before reusing. Contaminated leather goods should be removed promptly and discarded. 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Density: 0.858 g/cm³ @ 15°C 9.2 Boling Point: NA 9.4 Evaporation Rate: Negligible 9.5 Vapor Presure @ 20°C: NA 9.6 Mederular Weight: NA 9.7 Appearance & Colour: Red viscous liquid 9.8 Odour Threshold: Slight mineral oil odor 9.9 Subability: Insoluble 9.11 Vscoally: NA 9.12 Coefficient Oil/Water NA 9.13 Additional Information: DMSO Extract (base oil) < 3.0 % (IP 346)	8.4						
Avoid prolonged and/or repeated skin contact. Use clean and impervious protective clothing (e.g., neoprene or Tyvek®) if splashing or spraying conditions are present. Protective clothing should include long-sleeves, apron, boots and additional facial protection is removed promptly and discarded. 9 P. PHYSICAL & CHEMICAL PROPERTIES 9.1 Density: 0.858 g/cm³ @ 15°C 9.2 Boling Point: NA 9.3 Meting Point: NA 9.4 Evaporation Rate: Negligible 9.5 Vapor Pressure @ 20°C NA 9.4 Evaporation Rate: Na 9.5 Vapor Pressure @ 20°C NA 9.6 Molecular Weight: NA 9.7 Appearance & Colour Red viscous liquid 9.8 Odor Inveshold: Slight mineral oil odor 9.9 Sublify: Insoluble 9.10 pH: NA 9.11 Viscoalfy: NA 9.12 Conditional Information: DMSO Extract (base oil) < 3.0 % (IP 346)		expected. Use hea					
9.1 Density: 0.858 g/cm³ @ 15°C 9.2 Bolling Point: NA 9.3 Metting Point: NA 9.4 Evaporation Rate: Negligible 9.5 Vapor Presure @ 20 °C: NA 9.6 Molecular Weight: NA 9.7 Appearance & Colour: Red viscous liquid 9.8 Odour Threshold: Slight mineral oil odor 9.9 Solubility: Insoluble 9.10 pH: NA 9.11 Viscosity: NA 9.12 Coefficient Oli/Vater Distribution: NA 9.13 Additional Information: DMSO Extract (base oil) < 3.0 % (IP 346)	8.5	Avoid prolonged a or spraying conditi Remove oil contai	ions are present. Protective clothing should include long-sleeves, apron, boots and additional facial protection. minated clothing. Launder oil contaminated clothing before reusing. Contaminated leather goods should be				
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9.2 Boiling Point: NA 9.3 Melting Point: NA 9.4 Evaporation Rate: Negligible 9.5 Vapor Pressure @ 20 °C: NA 9.6 Molecular Weight: NA 9.7 Appearance & Colou: Red viscous liquid 9.8 Odour Threshold: Slight mineral oil odor 9.9 Solubility: Insoluble 9.10 pH: NA 9.11 Viscosity: NA 9.12 Codour Threshold: Slight mineral oil odor 9.13 Additional information: DMSO Extract (base oil) < 3.0 % (IP 346)	9.1	Density:					
9.3 Meling Point: NA 9.4 Evaporation Rate: Negligible 9.5 Vapor Pressure @ 20 °C: NA 9.6 Molecular Weight: NA 9.7 Appearance & Colour: Red viscous liquid 9.8 Odour Threshold: Slight mineral oil odor 9.9 Solubility: Insoluble 9.10 pH: NA 9.11 Vscosity: NA 9.12 Coefficient Oil/Water NA 9.13 Additional information: DMSO Extract (base oil) < 3.0 % (IP 346)		-					
9.4 Evaporation Rate: Negligible 9.5 Vapor Pressure @ 20 °C: NA 9.6 Molecular Weight: NA 9.7 Appearance & Colour: Red viscous liquid 9.8 Odour Threshold: Slight mineral oil odor 9.9 Solubility: Insoluble 9.10 pH: NA 9.11 Viscosity: NA 9.12 Coefficient Oil/Water Distribution: NA 9.13 Additional Information: DMSO Extract (base oil) < 3.0 % (IP 346)	9.3	-					
95 Vapor Pressure @ 20 °C: NA 96 Molecular Weight: NA 97 Appearance & Colou:: Red viscous liquid 98 Odour Threshold: Slight mineral oil odor 99 Solubility: Insoluble 910 pH: NA 921 Osficient Oil/Water NA 922 Solubility: Insoluble 93 NA 9 941 Viscosity: NA 942 Coefficient Oil/Water NA 943 Additional Information: DMSO Extract (base oil) < 3.0 % (IP 346)	9.4	_					
9.6 Molecular Weight: NA 9.7 Appearance & Colou: Red viscous liquid 9.8 Odour Threshold: Slight mineral oil odor 9.9 Solubility: Insoluble 9.10 pH: NA 9.11 Viscosity: NA 9.12 Coefficient Oli/Water NA 9.13 Additional Information: DMSO Extract (base oil) < 3.0 % (IP 346)	9.5						
9.7 Appearance & Colour: Red viscous liquid 9.8 Odour Threshold: Slight mineral oil odor 9.9 Solubility: Insoluble 9.10 pH: NA 9.11 Viscosity: NA 9.12 Coefficient Oil/Water Distribution: NA 9.13 Additional Information: DMSO Extract (base oil) < 3.0 % (IP 346)	9.6						
98 Odour Threshold: Silght mineral oil odor 99 Solubility: Insoluble 910 pH: NA 911 Viscosity: NA 912 Coefficient Oli/Water Distribution: NA 913 Additional Information: DMSO Extract (base oil) < 3.0 % (IP 346)	9.7	_					
9.9 Solubility: Insoluble 9.10 pH: NA 9.11 Viscosity: NA 9.12 Coefficient Oil/Water Distribution: NA 9.13 Additional Information: DMSO Extract (base oil) < 3.0 % (IP 346)	9.8	Odour Threshold:					
Image: Note of the state o	9.9	Solubility:					
9.12 Coefficient Oil/Water Distribution: NA 9.13 Additional Information: DMSO Extract (base oil) < 3.0 % (IP 346)	9.10	pH:	NA				
Distribution: NA 9.13 Additional Information: DMSO Extract (base oil) < 3.0 % (IP 346)	9.11	Viscosity:					
Difference Extract (base oil) (bits its) Integration (colspan="2") (bits its) 10. STABILITY & REACTIVITY 10.1 Stability: Stable under normal conditions. 10.2 Decomposition Products: Fumes, smoke, carbon monoxide, metal oxides, and trace hydrocarbons. 10.3 Polymerization: Will not occur. Vill not occur. 10.4 Conditions to Avoid: Open flames, sparks, high heat, and close proximity to incompatible substances. 10.5 Incompatible Substances:	9.12		NA				
10.1 Stability: Stable under normal conditions. 10.2 Decomposition Products: Fumes, smoke, carbon monoxide, metal oxides, and trace hydrocarbons. 10.3 Polymerization: Will not occur. 10.4 Conditions to Avoid: Open flames, sparks, high heat, and close proximity to incompatible substances. 10.5 Incompatible Substances:	9.13	Additional Information:	DMSO Extract (base oil) < 3.0 % (IP 346)				
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10.3 Polymerization: Will not occur. 10.4 Conditions to Avoid: Open flames, sparks, high heat, and close proximity to incompatible substances. 10.5 Incompatible Substances:	10.2						
10.4 Conditions to Avoid: Open flames, sparks, high heat, and close proximity to incompatible substances. 10.5 Incompatible Substances:	10.3	Polymerization:					
Open flames, sparks, high heat, and close proximity to incompatible substances. 10.5 Incompatible Substances:	10.4						
	10.4		ks, high heat, and close proximity to incompatible substances.				
strong oxidizing agents.	10.5						
		strong oxidizing ag	ienis.				

MATERIAL SAFETY DATA SHEET

Page 4 of 6 WP-142

Prep	ared to OSHA, ACC,	ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS	S Revision: 2.0	MSDS Revision Date:	03/01/2008		
11.1	11. TOXICOLOGICAL INFORMATION						
11.1		Based on animal testing from similar materials & products, the acute toxicity of this product is expected to be: Petroleum Oils - LD50 (oral, rat) > 5000 mg/kg; LD50 (dermal, rabbit) > 2000 mg/kg; LD50 (inhalation, rat) > 5000 mg/m ³					
11.2	Acute Toxicity:	50 (01a), 1a) > 5000 mg/kg, LD 50 (definal, 1abbit) > 2000 m	ng/kg, LD50 (initialation,	1at) > 5000 mg/ms			
	Mineral oil mists de	erived from highly refined oils are reported to have lo					
		single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure					
		g inflammatory reaction, lipoid granuloma formation s to lower concentrations of mineral oil mists at or near o					
	toxicological effec			osule levels produced i	io significant		
11.3	Chronic Toxicity:						
		s (up to two years) no carcinogenic effects have been re	eported in any animal	species tested.			
11.4	Suspected Carcinogen: NO						
11.5	Reproductive Toxicity:						
	Mutagenicity: Embryotoxicity:	This product is not expected to cause mutagenic effect					
	Teratogenicity:	This product is not expected to cause embryotoxic eff This product is not expected to cause teratogenic effe					
	Reproductive Toxicity:	This product is not expected to cause reproductive ha					
11.6	Irritancy of Product:						
	NA						
11.7	Biological Exposure Indice	25:					
11.8	Medical Recommendation						
		of the product(s) represented by this MSDS is greater th					
		 n. Careful gastric lavage or emesis may be considered tion requires prompt surgical debridement. 	I to evacuate large qua	antities of material. Sub	cutaneous or		
		12. ECOLOGICAL INFOR	RMATION				
12.1	Environmental Stability:						
		ical effects has not been conducted on this product. Ho					
	water may be harmful to human, animal, and aquatic life. Also, the coating action associated with petroleum and petroleum products can be harmful or fatal to aquatic life and waterfowl.						
12.2	Effect on Plants & Animals:						
	An environmental fate analysis has not been conducted on this specific product. However, plants and animals may experience harmful or fatal effects when coated with petroleum-based products.						
12.3	Effect on Aquatic Life:	mineral) lube oils will normally float on water. In stagnar	at or slow, flowing water	wave an oil lavor can			
		result, this oil layer might limit or eliminate natural atm					
		depletion in the waterway can result in a loss of mari					
	contains phosphor	us which is a controlled element for disposal in effluen	nt waters in most section	ons of North America. F	hosphorus is		
		e the formation of algae. Severe algae growth can re	educe oxygen content	in the water possibly	below levels		
	necessary to suppo	ort marine life.					
		13. DISPOSAL CONSIDE	RATIONS				
13.1	Waste Disposal:						
46.5		Dispose of in accordance with federal, state & provincial hazardous waste laws.					
13.2	Special Considerations:	unsuitable for recycling or reclamation, enclosed-co	ontrolled incineration	is recommended unle	ss otherwise		
	prohibited by local	,					
	*						
		14. TRANSPORTATION INF	ORMATION				
14.1	49 CFR (Ground): NOT REGULATED						
14.2	iata (Air): Not regulated						
14.3	IMDG (Ocean):						
14.4	NOT REGULATED TDGR (Canada):						
	NOT REGULATED						
14.5	ADR/RID (EU): NOT REGULATED						
14.6	SCT (Mexico):						
14.7	ADGR (Australia):						
14.7							

NORL	<u>DPAC :::jilling</u> a	MATERIAL	SAFE	ry data s	HEET	Page 5 of 6 WP-142
Prep	ared to OSHA, AC	CC, ANSI, NOHSC, WHMIS & 2001/58	BEC Standards	MSDS Revision: 2.0	MSDS Revision Da	ate: 03/01/2008
		15. RE	GULATORY	INFORMATION		
15.1	U.S. EPA SARA Repor					
		es not contain any substances sub	ject to SARA rep	orting requirements.		
15.2	U.S. EPA SARA Threshold Planning Quantity: NA					
15.3	U.S. EPA TSCA Invent	5				
15.4		ts of this product are listed on the Taportable Quantity (RQ):	SCA inventory or	are otherwise excepted.		
15.4	NA	portable Quantity (RQ):				
15.5	Other U.S. Federal Re	equirements:				
	NA	•				
15.6	requirements. T	^{gulations} ubstances of this product are liste his product has been classified ac all of the information required by th	cording to the h			
15.7	U.S. State Regulatory					
45.0	NA					
15.8		an Union) and Australia NOHSC:2011 (2003) Re mponents of this product are not lis		EU Directive 67/548/EEC.	×	
		16.	OTHER INF	ORMATION		
16.1	Other Information:					
16.2	Terms & Definitions:					
44.0		page of this MSDS.				
16.3	Workplace Haz contained here warranties of a	fety Data Sheet complies with U.S ardous Materials Information System in is reliable and accurate as of the any type, either expressed or imp act the manufacturer for additiona	m (WHMIS). To th is date; howeve lied, are provid	e best of ShipMate's or Wo r, accuracy, suitability or c	orldPac Inc.'s knowled completeness are not g	dge, the information guaranteed and no
16.4	Prepared for:					
	WorldPac, Inc.					
	37137 Hickory S					
	Newark, CA 94		WOR			
	510-608-5525 p		World Wide Parts	and Accessories Corporation	v	
	510-742-9262 fa					
16.5	http://www.wor Prepared by:	napac.com/				
10.5	ShipMate, Inc.					
	PO Box 787					
	Sisters, OR 977	59-0787 USΔ	Shir	Demogerous Goods		
	Phone: +1 (310)			JIVIALE		
	Fax: +1 (310) 37			Dangerous Goods Training & Consulting		
		te@shipmate.com				

WORLDPAC :::

MATERIAL SAFETY DATA SHEET

Page 6 of 6

WP-142

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 2.0

MSDS Revision Date:

03/01/2008

DEFINITIONS 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	Permissible Exposure Limit
IDLH	Immediately Dangerous to Life and Health

FIRST AID MEASURES:

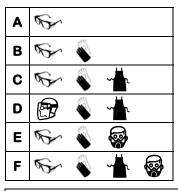
CPR	Cardiopulmonary resuscitation - method in which a person
	whose heart has stopped receives manual chest
	compressions and breathing to circulate blood and provide
	oxygen to the body.

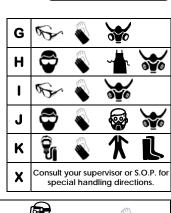
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

PERSONAL PROTECTION RATINGS:





Gloves

Dust Respirator <u>.</u>

HEALTH

FLAMMABILITY

REACTIVITY

PERSONAL PROTECTION



Dust & Vapor Half-Mask Respirator

S¥0

Airline Hood/Mask or SCBA Respirator Note: the dotted circle indicates that this respiratory protective equipment is required for high concentrations or for large volume spills or releases of product.

Full Face

OTHER STANDARD ABBREVIATIONS:

Full Face Respirator

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

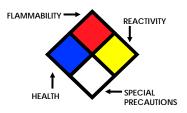
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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
-₩-	Use No Water
OX	Oxidizer



TOXICOLOGICAL INFORMATION:

BCF	Bioconcentration Factor		
IARC	International Agency for Research on Cancer		
LC ₅₀	Lethal concentration (gases) which kills 50% of the		
	exposed animal		
LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the		
	exposed animals s		
log Kow or log Koc	Coefficient of Oil/Water Distribution		
NTP	National Toxicology Program		
ppm	Concentration expressed in parts of material per		
	million parts		
RTECS	Registry of Toxic Effects of Chemical Substances		
TCLo	Lowest concentration to cause a symptom		
TD _{Io}	Lowest dose to cause a symptom		
TD _{Io} , LD _{Io} , & LD _o or	Lowest dose (or concentration) to cause lethal or		
TC, TC _o , LC _{lo} , & LC _o	toxic effects		
TLm	Median threshold limit		

REGULATORY INFORMATION:

DOT	U.S. Department of Transportation				
DSL	Canadian Domestic Substance List				
EPA	U.S. Environmental Protection Agency				
EU	European Union (European Union Directive 67/548/EEC)				
NDSL	Canadian Non-Domestic Substance List				
NOHSC	National Occupational Health & Safety Code (Australia)				
PSL	Canadian Priority Substances List				
TC	Transport Canada				
TSCA	U.S. Toxic Substance Control Act				
WHMIS	Canadian Workplace Hazardous Material Information System				

EC INFORMATION:

N		1×	¥	8	&	×	×
С	E	F	Ν	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful