MATERIAL SAFETY DATA SHEET WORLDPAC ::: jilling. Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 2.0 CHEMICAL RESPONSE CARD. 00 1 PRODUCT IDENTIFICATION

••				CHEMICAL RESPONSE CARD.				
1.1	Product Name:	HONDA DUAL PUMP SYSTEM FLUID	RESPONSE	RESPONSE 🔗 🔊		(
1.2	Chemical Name:	See ingredients listed in section 2	TEAM PPE:	♥		(OÃO)		
1.3	Synonyms:	P/N 08206-9002C	WILLAALS.	$\overline{\mathbf{T}}$				
1.4	Trade Names:	Honda Dual Pump System Fluid	WHMIS:	\bigcirc				
1.5	Product Use:	Automotive – Lubricant	HEALTH:		1			
1.6	Manufacturer's Name:	Apollo America Corporation	FLAMMABIL	FLAMMABILITY:		1		
1.7	Manufacturer's Address:	701 Port Road, Jeffersonville, IN 47130 USA	REACTIVITY:	REACTIVITY:		0		
1.8	Business Phone:	+1 (812) 284-3300	PERSONAL P	PERSONAL PROTECTION:		В		
1.9	Emergency Phone:	CHEMTREC +1 (800) 424-9300/+1 (703) 5	7-3887					

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2. IDENTIFICATION OF RISKS

2.1	Hazard Identification:										
2.1	This product is classified as a hazardous substance but not as dangerous goods according to the classification criteria of NOHSC and										
	ADG Code(Australia). Co				,c.003 gt						
2.2	Routes of Entry:		Inhalation:	YES	Δ	bsorption:	Y	'ES	Ingestion	1:	YES
2.3	Effects of Exposure:			120						•	
	EYES: This product can ca	iuse transient i	mild eye irritat	ion with short-	term cor	ntact.					
	SKIN: This product can cause mild, transient skin irritation with short-term exposure.										
	INGESTION: If swallowed, I					-	on can ca	iuse a lax	ative effe	ct.	
	INHALATION: No significa	•			•	•					
2.4	Symptoms of Exposure:		-	•		-					
	EYES: Irritation, redness, a	nd watering.									
	SKIN: Possible irritation, de	efatting, or de	rmatitis (rash),	characterized	d by dry,	scaling, re	ed, itching	y skin.			
	INGESTION: Laxative effect	cts. Gastrointe	estinal discom	fort, nausea a	nd head	ache.					
	INHALATION: May caus	e irritation to	the upper i	respiratory sy	stem. (Overexpos	ure to sp	orays or	mists ma	ıy cause	chemical
	pneumonitis.										
2.5	Acute Health Effects:										
	EYES: Slightly irritating, but	-									
	<u>SKIN</u> : Low toxicity. Freque			•							
	INGESTION: Low toxicity.										
	INHALATION: Negligible.			or through m	echanic	al action,	may form	vapours	, mists or	fumes th	at may be
	irritating to the eyes, nose,	, throat and lu	ngs.								
2.6	Chronic Health Effects: Contains a petroleum-based oil. Prolonged or repeated skin contact can cause mild irritation and inflammation characterized by										
	drying, cracking, (dermat			area skin con	act can	cause m	ia irritatio	n ana inf	iammatio	on charao	cierizea by
2.7	Target Organs:	ins of on dene									
2.1	None reported by the mai	nufacturer.									
2.8	Toxicological Properties:										
	None reported by the mai	nufacturer.									
			3. COMP	OSITION	& ING	REDIEN	TS				
							EXPO	SURE LIMI	TS IN AIR ((mg/m³)	
						ACGIH	- ppm	0	SHA - ppi	m	OTHER
CH	EMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	PEL	STEL	IDLH	
PETRO	PETROLEUM OILS NA		NA	NA	NA	(5)	NA	(350)	NA	NA	(500) C
			1								
See	Section 16 for Additional De	efinitions of Te	rms Used.								
NOT	E: All WHMIS required inform	mation is inclu	ded – it is loco	ated in approp	oriate sec	ctions base	ed on the	ANSI Z400).1-2004 fe	ormat.	
-	•			•••							

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Prep	pared to OSHA, ACC,	ANSI, NOHSC, WHMIS &	2001/58 EC Stand	lards	MSDS Revision	: 2.0	N	ISDS Revision Date	9: 06/	01/2007
			4. F	IRST						
4.1	eyelids. Seek media <u>SKIN</u> : Remove con attention if tissue contaminated leath immediately. <u>INGESTION</u> : Do not Never give anything <u>INHALATION</u> : Vapa	nd remove contact lens cal attention if excessive taminated shoes and c appears damaged on her goods. If material i induce vomiting unless g by mouth to a person orization is not expect icipated conditions of u	es. Flush eyes with e tearing, redness, lothing. Wipe off e if irritation persi s injected under t directed to by a p who is not fully cor ed at ambient ter	n cool, or pai excess ists. Th the sk hysicio mpera	, clean, low-press in persists. material. Wash e horoughly clean in, into muscle, an. Do not give a s. Seek medical o atures. This mater	expose conta or into nything attentic rial is r	d skin w iminated the blo g to drinl on imme not expo	vith soap and wat d clothing before odstream, seek n < unless directed t diately. ected to cause i	er. Seek r e reuse. nedical a o by a ph	medical Discard Ittention Sysician.
4.2	Medical Conditions Aggra	avated by Exposure: existing skin disorders s	hould avoid repea	ited or	r prolonged contr	l act	IEALT	Н		1
	with this product.				protongeu com	F	LAM	MABILITY		1
						R	REACT	IVITY		0
						Р	ROTE	CTIVE EQUIP	MENT	В
						E	YES	SKIN		
		5	. FIRE & EXP			25				
5.1	Flashpoint & Method:									
5.2	≥ 302 °C (≥ 576 °F), Autoignition Temperature									
0.2	NA									
5.3	Flammability Limits:	Lower Explosive Limit (LEL):	ND	Upper Ex	xplosive Limit (UEL):	ND				
5.4 5.5 5.6	flash point temper heated vapor can point. Carbon dios sulfur, phosphorus, hydrogen sulfide ca Extinguishing Methods: Dry chemical, foarr Firefighting Procedures: Keep containers ca protect personal. A Prevent runoff from natural waterway. self-contained bra	urn but will not readily ig ature that can ignite v ignite with explosive for kide, carbon monoxide and nitrogen. Also, de an be released. An, carbon dioxide, and v bol until well after the fire Avoid spraying water di fire control or dilution Firefighters must use f eathing apparatus to ducts and oxygen defic	when exposed to ce. Mists or sprays smoke, fumes, up pending upon the water fog. e is out. Use water rectly into storage from entering sev ull bunker gear in protect agains	a sou s may nburne e conte spray conte wers, c cludin	v to cool fire-expo ainers because o drains, drinking v ng NIOSH-approv	n enclitures be and tre w cond osed su f dange vater su ed pos	osed sp elow the ace oxid centration urfaces of er of boi upply, o itive pre	acces, e flash des of ons of and to ilover. or any essure		
6.1	Spills:		6. SPIL	LS &	LEAKS					
0.1	Secure spill area, re Deny entry to all un Recover free liquid or cover with dry e Contain large spills sewers or any natu reporting requirem provincial environm disposal of recover regulations. Notify	emove or minimize all s approtected individuals. or cover with inert abso earth, sand, or other ine to maximize product re ural waterway or drinkin ents. For water spills, nental agencies, sinkin ed material. Ensure dis the appropriate federe e effects of the spill.	Individuals involve orbent material and ort non-combustible ecovery or dispose ng supply. Contac remove from surfo g and/or suitable posal on compliar	ed in th d place e absc al. If ne ct app ace by dispen nce wi	ne cleanup must e into appropriation orbent material a ecessary, dike w propriate local an y skimming or w rsants may be us ith government re	wear a e conto nd plac ell ahe nd/or p ith suito sed in equirem	ppropric ainer(s) f ce into ad of th provincio able ab unconfii nents & s	ate personal prote for disposal. For su waste containers e spill to prevent al authorities for a sorbents. If allow ned waters. Cons secure conformity	ctive equ mall spills, for later d runoff into issistance ved by fe sult an ex to local o	ipment. , absorb lisposal. o drains, and/or ederal & cpert on disposal

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Prep	ared to OSHA, ACC,	ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision Date: 06/01/2007				
		7. STORAGE & HANDLING				
7.1	Work & Hygiene Practices					
7.1	Use normal hygier drinking, or smokin	ne practices. Avoid direct skin contact. Wash hands thoroughly after using this product and before eating,				
7.2		cool, dry, well-ventilated area. Keep away from excessive heat, open flames, sparks, and other possible sources store in unmarked containers or storage devices.				
7.3	Special Precautions:					
		may contain product residue. Do not pressurize, cut, heat or weld empty containers. Do not reuse empty commercial cleaning or reconditioning.				
		8. EXPOSURE CONTROL & PERSONAL PROTECTION				
8.1	Ventilation & Engineering The use of mech occupational expo or is agitated.	Controls: anical dilution ventilation is recommended to maintain airborne concentrations below the recommended ssure limits, whenever this material is used in a confined space, is heated above normal temperatures (up to 38°C)				
3.2	Respiratory Protection:					
	under normal use exposure levels ar Protection factors v U.S. State regulatio or Australia.	sting is not expected at ambient temperatures. Therefore, the need for respiratory protection is not anticipated 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. rary depending upon the type of respirator used. Use only protection authorized by 29 CFR §1910.134, applicable ns, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member states,				
8.3		ipped with side shields should be adequate protection under most conditions of use. Wear goggles and/or face or spraying is anticipated. Wear goggles and face shield if material is heated above 125°F (51°C). Have suitable ailable.				
3.4		cted of chemical resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact is t-protective gloves when handling product at elevated temperatures.				
	or spraying conditi	nd/or repeated skin contact. Use clean and impervious protective clothing (e.g., neoprene or Tyvek®) if splashing 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 and discarded.				
		9. PHYSICAL & CHEMICAL PROPERTIES				
9.1	Density:	NA				
9.2	Boiling Point:	NA				
9.3	Melting Point:	NA				
9.4	Evaporation Rate:	NA				
9.5	Vapor Pressure @ 20°C:	NA				
7.6	Molecular Weight:	NA				
	Appearance & Colour:	Viscous Amber Liquid				
7.8 7.8	Odour Threshold:	Mild Petroleum Odor				
9.9	Solubility:					
9.10	pH:					
9.10 9.11	Viscosity:	ND				
9.11	Coefficient Oil/Water	NA				
/.12	Distribution:	ND				
.13	Additional Information:	NA				
		10. STABILITY & REACTIVITY				
10.1	Stability: Stable under normo	al conditions.				
10.2	Decomposition Products: Fumes, smoke, car	bon monoxide, sulfur, phosphorous and metal oxides, and trace hydrocarbons.				
10.3	Polymerization: Will not occur.					
10.4	Conditions to Avoid:	cs, high heat, and close proximity to incompatible substances.				
10.5	Incompatible Substances					
		Strong oxidizing agents.				

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Prep	pared to OSHA, ACC,	, ANSI, NOHSC, WHMIS & 2001/58 EC Standards MSDS Revision: 2.0 MSDS Revision [Date:	06/01/2007				
		11. TOXICOLOGICAL INFORMATION						
11.1	Toxicity Data:							
	Solvent-Refined, H	Based on animal testing from similar materials & products, the acute toxicity of this product is expected to be: Distillates, Petroleum, Solvent-Refined, Heavy Paraffinic - LD ₅₀ (oral, rat) > 5000 mg/kg; LD ₅₀ (dermal, rabbit) > 2000 mg/kg; Distillates, Petroleum, Hydrotreated, Heavy Paraffinic - LD ₅₀ (oral, rat) > 5000 mg/kg; LD ₅₀ (dermal, rabbit) > 2000 mg/kg.						
11.2	Acute Toxicity:							
	single and short-te levels include lung involving exposure toxicological effect	erived from highly refined oils are reported to have low acute and sub-acute toxicities in erm repeated exposures to high concentrations of mineral oil mists well above applicable g inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute an to lower concentrations of mineral oil mists at or near current work place exposure levels pro- ts.	workpla d sub-a	ce exposur cute studie				
11.3	Chronic Toxicity: See section 2.6.							
11.4	Suspected Carcinogen:							
		oxide (DMSO), if present at all, is in a concentration of less than 1.0 %.						
11.5	Reproductive Toxicity:							
	Mutagenicity:	This product is not expected to cause mutagenic effects in humans.						
	Embryotoxicity:	This product is not expected to cause embryotoxic effects in humans.						
	Teratogenicity:	This product is not expected to cause teratogenic effects in humans.						
	Reproductive Toxicity:	This product is not expected to cause reproductive harm in humans.						
11.6	Irritancy of Product: NA							
11.7	Biological Exposure Indice	es:						
	NA Medical Recommendation							
	there is a moderate	e of the product(s) represented by this MSDS is between 100 and 400 SUS at 100°F. Accordi te risk of aspiration. Careful gastric lavage or emesis may be considered to evacuate large on tramuscular injection requires prompt surgical debridement.		-				
		12. ECOLOGICAL INFORMATION						
12.1	Environmental Stability:							
	water may be har	gical effects has not been conducted on this product. However, if spilled, this product and any rmful to human, animal, and aquatic life. Also, the coating action associated with petrol armful or fatal to aquatic life and waterfowl.						
12.2		Is: fate analysis has not been conducted on this specific product. However, plants and anim ects when coated with petroleum-based products.	als may	experienc				
12.3	Effect on Aquatic Life: Petroleum-based (I	mineral) lube oils will normally float on water. In stagnant or slow-flowing waterways, an oil lay result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the w		•				
	removed, oxygen contains phosphore	depletion in the waterway can result in a loss of marine life or create an anaerobic environ rus which is a controlled element for disposal in effluent waters in most sections of North An e the formation of algae. Severe algae growth can reduce oxygen content in the water p	onment. nerica. P	This materi hosphorus				
		13. DISPOSAL CONSIDERATIONS						
13.1	Waste Disposal:							
13.2	Dispose of in accor Special Considerations:	rdance with federal & provincial hazardous waste laws.						

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	14.	TRANSPORTATION INFORMATION	
14.1	TDGR (Canada GND):		
	NOT REGULATED		
14.2			
14.3	NOT REGULATED IMDG (OCN):		
14.5	NOT REGULATED		
14.4	49 CFR (GND):		
445			
14.5	ADR/RID (EU): NOT REGULATED		
14.6	MEXICO (SCT):		
	NOT REGULATED		
	1	5. REGULATORY INFORMATION	
45.4	SARA Reporting Requirements:	b. REGULATORY INFORMATION	
15.1		ces subject to SARA reporting requirements.	
15.2	SARA Threshold Planning Quantity:		
	NA		
15.3	TSCA Inventory Status:	on the ISCA inventory	
15.4	The components of this product are listed (CERCLA Reportable Quantity (RQ):		
13.4	NA		
15.5	Other Federal Requirements:		
	NA		
15.6	Other Canadian Regulations	e listed on the CEPA DSL/NDSL or are exempt from list	\frown
		sified according to the hazard criteria of the CPR and	(\mathbf{T})
		equired by the CPR. None of the components of this	
	product are listed on the priorities substand		0
15.7	State Regulatory Information:		
		Know Act, N.J.A.C. 8:59-5 Labeling Information: Hydrauli	
15.8	67/548/EEC (European Union) Requirements: The primary components of this product ar	e not listed in Annex I of EU Directive 67/548/EEC.	
			X
		16. OTHER INFORMATION	
16.1	Other Information:		
10.1	NA		
16.2	Terms & Definitions:		
	Please see last page of this Material Safety	Data Sheet.	
16.3	Disclaimer: This Material Safety Data Sheet compliant	with U.S. OSUA/c Hozord Communication Standard 20	CED \$1010 1200 & Llooth Consider
		with U.S. OSHA's Hazard Communication Standard, 29 on System (WHMIS). To the best of ShipMate's or World	
		as of this date; however, accuracy, suitability or comple	
		or implied, are provided. The information contained	
	product. Contact the manufacturer for ac	ditional information.	
16.4	Prepared for: WorldPac, Inc.		
	37137 Hickory Street		
	Newark, CA 94560		2
	510-608-5525 phone	World Wide Parts and Accessories Corporation	
	510-742-9262 fax		
14 5	http://www.worldpac.com/ Prepared by:		
16.5	Steven Charles Hunt		
	ShipMate, Inc.		
	18436 Hawthorne Blvd, Suite 201	ShipMate [®]	
	Torrance, CA 90504 USA	Dangerous Goods	
	Phone: +1 (310) 370-3600 Fax: +1 (310) 370-5700	Training & Consulting	
	e-mail: shipmate@shipmate.com		

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HEALTH

FLAMMABILITY

REACTIVITY PERSONAL PROTECTION

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	Permissible Exposure Limit
IDLH	Immediately Dangerous to Life and Health
	Infine diatery bungerous to life and nearth

FIRST AID MEASURES:

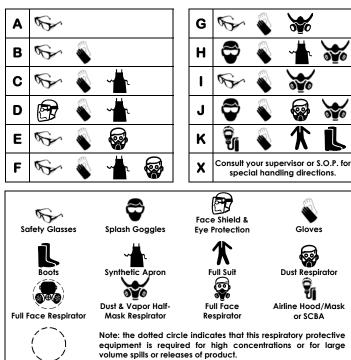
CPR	Cardiopulmonary resuscitation - method in which a person
	whose heart has stopped receives manual chest
	compressions and breathing to circulate blood and provide
	oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

PERSONAL PROTECTION RATINGS:



OTHER STANDARD ABBREVIATIONS:

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

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

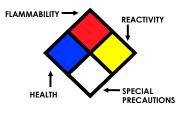
FLAMMABILITY LIMITS IN AIR:

Autoignition	Minimum temperature required to initiate combustion
Temperature	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

MSDS Revision Date:

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			
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					
2030	exposed animal					
	exposed animal					
ppm	om Concentration expressed in parts of material pe					
	million parts					
TD _{lo}	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, TC _o , LC _{io} , & LC _o	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:

		×	*	8	*	×	×
С	E	F	Ν	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful