

## FVP EXTENDED LIFE HEAVY DUTY GOLD UNIVERSAL ANTIFREEZE/COLLANT

Safety Data Sheet

	Section 1 - Identif	ication					
Supplier Address	Factory Motor Parts						
	1380 Corporate Center Curve, S	uite 200					
	Eagan, MN 55121						
Part #	FVP HDGOLD50/50-55G						
Emergency Telephone	INFOTRAC 1-800-535-5053						
Chemical Name & Synonyms	Antifreeze/Inhibited Ethylene Gly	col					
Chemical Family	Ethylene Glycol Mixture						
Recommended Use		Antifreeze Fluid					
Restrictions on Use	Dilution to 50% is generally recommended: dilute to meet local condition.						
	Section 2 – Hazard(s) le	dentification					
	OSHA: Acute Toxicity, Oral: Category 4						
	Skin Corrosion / Irritation: Categ						
Hazard Classification	Toxic to Reproduction: Category						
	Specific Target Organ Toxicity (						
	Specific Target Organ Toxicity (F	Repeated Exposure): C	ategory 2				
Signal Word	Danger						
Hammed Otations and	Harmful or fatal if swallowed. Ca						
Hazard Statement	the unborn child. Causes damag						
Distance Description	May cause damage to kidneys the		eated exposure if swallowed.				
Pictogram Description	GHS: Health Hazard & Exclama	ion Point					
	Prevention:						
	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash hands and any other contaminated skin after						
	handling. Do not eat, drink or sn (splash goggles, full face shield)						
	impervious). Do not breathe fum						
	Response:	ies, vapors, mist, or spr	ay.				
	•	rator					
	If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and						
Precautionary Statement	wash it before reuse.	icai allerillori. Take ori	containinated clothing and				
Trecadionary Statement	If exposed or concerned: Call a	noison center. Get med	dical advice				
	If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth.  Get medical attention if you feel unwell.						
	Storage:						
	Storage. Store locked up.						
	Disposal:						
	Contact local sewer, municipal, state and/or federal agencies to determine appropriate						
	disposal options for the product. Dispose of this container with a registered						
	reconditioner or as otherwise appropriate.						
Any other Hazard not otherwise	Not Applicable	•					
classified	Not Applicable						
Section	n 3 - Composition and Info	mation on Ingredi	ents				
Chemical Name	Common name and synony	ns CAS#	% by weight				
Ethylene Glycol	Monoethylene Glycol	107-21-1	0.920000000000000				
,			04				
Water	N/A	7732-18-5	0.04				
Inhibitors & Dye	N/A	Proprietary	0.04				
	Section 4 - First aid	Measures					
	Symptoms of Expe						
Ata Irritation of affe	ected area with symptoms of redde		urning, possible permanent				
	ea, vomiting, weakness, and death		U/ 1				

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D.L.	Irritation of affected area with symptoms of reddening, itching, swelling, burning, possible permaner					
Delayed			akness, abdominal pain, muscle tenderness, repiratory failure, severe			
Inholeties	metabolic acidosis, hypocalcemictetany and death  Vapors and mists cause respiratory irritation and may be harmful if inhaled					
Inhalation Skin	Vapors and mists cause respiratory irritation and may be harmful if inhaled.					
		Irritation may result. May be harmful if absorbed through skin.				
Eye Contact	Irritation may cause transitory stinging and tearing.  Toxic: may be harmful or fatal if swallowed.					
Ingestion	Toxic: may be narmful					
	Demonstrate freehein A		First Aid Instructions			
Inhalation	Remove to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Seek medical attention.					
Skin			r for at least 20 minutes. Remove any contaminated clothing. Seek			
			if symptoms or irritation develops.			
Eye Contact			minutes. Seek medical attention if irritation develops or persists.			
			medical attention immediately. Do not give anything by mouth to an			
Ingestion			nt aspiration of swallowed product, lay victim on side with head lower			
Ingestion			spontaneously. If vomiting occurs and the victim is conscious, give			
	water to victim to furthe					
Other			ety data sheet to the doctor in attendance.			
	Se	ction !	5 – Fire Fighting Measures			
Suitable Extinguis			water fog, water spray, alcohol foam, dry chemical or carbon			
· ·	· ·	dioxid				
Unsuitable Exting	uishing Material	No Dat	ta Available			
Hazards from Cor		Smoke	e may contain the original material in addition to but not limited to:			
			n Monoxide, Carbon Dioxide.			
Special Protective	Equipment for		self-contained breathing apparatus and protective suit. Evacuate			
Firefighters		person	nel to safe areas and keep upwind of fire.			
-	Section	on 6 –	Accidental Release Measures			
			Ventilate area of leak or spill. Remove all sources of ignition. Wear			
Use of personal p	recautions		appropriate personal protective equipment.			
			Usage of safety glasses or googles is recommended. Chemical			
			resistant gloves, chemical resistant apron, boots, and full suit will be			
Protective equipm	nent to prevent the		necessary depending on the extent of clean up task. If ventilation does			
	skin, eyes, and clothing.		not control airborne concentration then respiratory protection			
	, , ,		equipment that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2			
			requirements should be used.			
N4 - 41		1	Collect liquid in an appropriate container or absorb with inert material			
Methods and mat	erials used for containme	ent	and place in chemical waste container.			
01			Do not flush to sewer. Comply with all federal, state, and local			
Cleanup procedui	es		regulations.			
	S	ection	7 – Handling and Storage			
	-		Protect container from physical damage. Wear appropriate personal			
			protection equipment. Do not expose containers to open flame,			
			excessive heat, or direct sunlight. Use local exhaust over processing			
Precautions for sa	afe handling		area. Do not eat, drink or smoke around products.			
	<u> </u>		Store in a cool, dry and ventilated area away from sources of heat,			
			moisture and incompatible materials. Observe all warnings and			
Recommendation	s on the conditions for s	afe	precautions listed for the product. Keep container closed to prevent			
storage, Storage/handling incompatibilities.			contamination.			
Section 8 – Exposure Controls/Personal Protection						
OSHA Permissible Exposure Limits (PELs)  Not Applicable						
American Conference of Governmental			· · · · · · · · · · · · · · · · · · ·			
Industrial Hygienists (ACGIH) Threshold Limit Values		imit	ACGIH TLV: 100 mg/m3			
Other Exposure Limits			OSHA - Table Z-1 Limits for air contaminants - 1910.1000: 50 ppm 125 mg/m3 .			
Engineering Control			Use mechanical (general) ventilation to control airborne levels below exposure guidelines.			
Individual Protection Measures			Wear protective safety glasses or goggles, gloves, apron, vapor respirator.			
			<u> </u>			

	Section 9	- Ph	ysical and Chei	nical and Chemica	I Properties			
Appearance (physical state, color, etc.)				Liquid, Clear, Gold				
Upper/lower flamma				sive; LOWER: 3.2% (v)	UPPER: 15.3%	(v)		
Odor			Slight to r	, , ,		\		
Vapor pressure				0.1 mmHg				
Odor threshold			No data a	<u> </u>				
Vapor density (air =	1)		2.14					
pH	• /		7.5 - 9.0					
Relative density			1.120 - 1.	140				
Freezing point (as 50	7%)		-34°F / -3					
Solubility(ies)				Miscible in water				
			385°F / 1					
Initial boiling point and boiling range Flash point			232°F / 1					
Evaporation rate (Bu	ıtvl Δcetate = 1	1	<1	11 0				
Flammability (solid, g		)		erial is Not Flammable b	ut can hurn if he	ated		
Partition coefficient:		\r	Log Pow:		ut can buill il lied	alcu		
Auto-ignition temper		71	> 700°F /					
			Not Appli					
Decomposition temp	erature, and							
Viscosity			~16 cps a					
				ility and Reactivity				
Reactivity				ble under typical use temperatures.				
Chemical Stability				pical use temperatures.				
Hazardous Reaction	S			ng materials strong bas		cids.		
Conditions to Avoid				ignition sources and incompatibles.				
Incompatible Materia				ng agents, strong base				
Decomposition Prod	ucts	Carbo	on dioxide and carb	on monoxide may form \	when heated to d	lecomposition.		
		Sec	tion 11 - Toxice	ological Informatio	n			
Likely Routes of Exp	osure			es / Skin / Ingestion / Inh				
Í		Short	Term Exposure		om Long Term E	Exposure		
_								
Delayed Effects	Irritation of affe	ected a	area	Irritation of affected ar	ea			
				Irritation of affected ar				
Immediate Effects	Irritation of affe	ected a		Irritation of affected ar				
Immediate Effects Chronic Effects	Irritation of affe Not Applicable	ected a	area	Irritation of affected ar Teratogenic effects	ea	ngestion: I D50 -		
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## Section 13 – Disposal Considerations Do not dump into sewers, on ground or into any bodies of water. Contact local sewer, municipal, state and/or federal agencies to determine appropriate disposal options Section 14 – Transport Information Is product DOT regulated in Non-Bulk packaging? No **DOT BULK UN** number UN3082 UN proper shipping name Environmentally hazardous substances, liquid, n.o.s. Transport hazard class(es) III Packing group number Environmental hazards (e.g., identify if it is a marine pollutant according to the Not Regulated International Maritime Dangerous Goods Code (IMDG Code)) Guidance on transport in bulk (according to Annex II of MARPOL 73/783 and the International Code for the Construction and Equipment of Ships Carrying Dangerous Not Regulated Chemicals in Bulk (International Bulk Chemical Code (IBC Code)) Any special precautions which an employee should be aware of or needs to comply Reportable Quantity (RQ): 5000 with, in connection with transport or conveyance either within or outside their Ibs Ethylene Glycol premises Section 15 – Regulatory Information (Not indicated anywhere else on this SDS) OSHA Hazard Communication Standard: This product is a "Hazardous Chemical" Safety Regulations as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. Not Available Health Regulations Not Available **Environmental Regulations** Superfund Amendments and Reauthorization Act of 1986 Title III (SARA) Sections 311 and 312: Immediate (Acute) Health Hazard - Yes; Delayed (Chronic) Health Hazard - Yes; Based upon available information, this Fire Hazard - No; Reactive Hazard - No; material is classified as the following Sudden Release of Pressure Hazard -SARA 311/312 health and/or physical hazards No. Section 313: Product contains the according to Section 311 & 312 following substances which are subject to reporting requirements and are listed in 40 CFR 372 - Component: Ethylene Glycol CAS#: 107-21-1 Amount: >=99.0%. Blue/Health 2 Red/Flammability 1 **HMIS** Orange/Physical Hazard 0 White/Personal Protection Х 2 Health (Blue) **NFPA** Flammability (Red) 1 Instability/Reactivity (Yellow) 0(no hazard) to 4(severe risk) N/A Special (White) 0 All components of this product are on the TSCA Inventory or are exempt US Toxic Substance Control Act from TSCA Inventory requirements under 40 CFR 720.30 All substances contained in this product are listed on the Canadian Domestic CEPA – Domestic Substances List (DSL) Substances List (DSL) or are not required to be listed. Section 16 - Other Information This SDS is applicable for all dilutions and containers for this brand of product. The information herein is provided in good faith and believed to be accurate as of the effective revision date shown. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/ user's responsibility to ensure that activities comply with all federal, state, provincial or local law. **Product Dilutions Differentials**

40%

35%

30%

25%

50%

60%

Properties<sup>1</sup>

PAH NOL® Gold Antifreeze		0.46				
Performance Additives and Water		0.54				
Specific Gravity (15/15°C 60/60°F)		1.060 - 1.090				
Reserve Alkalinity (min)		2				
Freeze Point Max		-34°F / -37°C				
Revision Date: 10/30/2015						