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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	Product Name:	1. PRODUCT & COMPANY IDENTIFICATION	
		PENTOSIN FFL-4	
1.2	Chemical Name:	Petroleum Oil Mixture	
.3	Synonyms:	NA NA	
.4	Trade Names:	Pentosin FFL-4	
5	Product Use:	Automotive Lubricant	
6	Distributor's Name:	Worldpac, Inc.	
7	Distributor's Address:	37137 Hickory Street, Newark, CA 94560 USA	
8	Emergency Phone:	INFOTRAC: +1 (800) 535-5053 / +1 (352) 323-3500 (CONTRACT 84261)	
.9	Business Phone / Fax:	+1 (510) 608-5525 / +1 (510) 742-9262	
		2 HAZADDS IDENTIFICATION	
	T.,	2. HAZARDS IDENTIFICATION	
1	Hazard Identification:	This product is classified as a hazardous substance but not as dangerous goods according to the classification criteria of [NOHSC: 1088 (2004)] and ADG Code (Australia).	
		DANGER! MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAY. MAY CAUSE AN	
		ALLERGIC SKIN REACTION.	
		Hazard Statements (H): H304 – May be fatal if swallowed and enters airways. H317 – May	
		cause an allergic skin reaction.	
		Precautionary Statements (P): P280 – Wear protective gloves/eye protection. P301+310: IF	
		SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P301 - Do NOT induce compiling. P361. Avoid breathing mist/carrave. P372. Contaminated work clothing.	
		induce vomiting. P261 - Avoid breathing mist/sprays. P272 – Contaminated work clothing should not be allowed out of the workplace. P302+P352 – IF ON SKIN: Wash with plenty of	
		soap and water. P333+P313 – If skin irritation or rash occurs: Get medical advice/attention.	
		P321 - For specific treatment - see section 4 of this Safety Data Sheet. P363 Wash	
		contaminated clothing before reuse. P405 – Store locked up. P501 - Dispose of	
		contents/container to licenses treatment, storage and disposal facility (TSDF).	
2	Effects of Exposure:	Eyes: This product can cause transient mild eye irritation with short-term contact with liquid sprays of	
		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.	
3	Symptoms of Overexposure:	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 caus	
		chemical pneumonitis.	
4	Acute Health Effects:	Moderate irritation to eyes. Moderate irritation to skin near affected areas.	
	Acute Health Effects: Chronic Health Effects:	Moderate irritation to eyes. Moderate irritation to skin near affected areas. Prolonged or repeated skin contact can cause mild irritation and inflammation characterized by drying, cracking	
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5	Chronic Health Effects:	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 oil mists at concentrations above applicable workplace exposure levels can cause respiratory irritation or other pulmonary effects.	
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NA = Not Available; ND = Not Determined; NE = Not Established; NF = Not Found; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used NOTE: All WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2010 format.



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		4. FIRST AID MEASURES				
4.1	First Aid:	Ingestion: DO NOT INDUCE VOMITING. Contact Infotrac +1 (800) 535-5053 or the nearest Poison Co	ontrol			
Center or local emergency telephone number for assistance and medical attention. If vomiting occurs spontaneously, keep victim's he the risk of aspiration. Eyes: If product gets in the eyes, flush eyes thoroughly with copious am minutes, holding eyelid(s) open to ensure complete flushing. If the		Center or local emergency telephone number for assistance and instructions. Seek imme medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to re	ediate			
		Eyes: If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least minutes, holding eyelid(s) open to ensure complete flushing. If the eyes or face become sw				
		during or following use, consult a physician or emergency room immediately. Skin: Remove contaminated clothing and wash affected areas with soap and water. If discomfort per and/or the skin reaction worsens, contact a physician immediately. Do not wear contaminated contaminate				
		clothing until after it has been properly cleaned. Inhalation: Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial				
4.2	Medical Conditions Aggravated by	respiration. Seek immediate medical attention. Persons with pre-existing central nervous system (CNS) HEALTH 1				
	Exposure:	disease, neurological conditions, skin disorders, chronic				
		respiratory diseases, or impaired liver or kidney function should				
		avoid exposure. PROTECTIVE EQUIPMENT E				
		EYES SKIN				
	1	1=-== 1= 1				
	1	5. FIREFIGHTING MEASURES				
5.1	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, CO ₂ , and NOx), smoke, hydrocarbons and their				
		derivatives, metal oxides, hydrogen sulfide (H ₂ S), aldehydes & other toxic pyrolysis products.				
	Extinguishing Methods: Firefighting Procedures:	derivatives, metal oxides, hydrogen sulfide (H ₂ S), aldehydes & other toxic pyrolysis products. Water, Foam, CO ₂ , Dry Chemical, low velocity water fog, Halon (if permitted), As with any fire, firefighters should wear appropriate protective equipment including a MSHA/NIOSH approved or equivalent self-contained breathing apparatus (SCBA) and				
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5.2	_ ` `	Water, Foam, CO ₂ , Dry Chemical, low velocity water fog, Halon (if permitted), 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	<u></u>			
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6.1	Firefighting Procedures: Spills:	Water, Foam, CO₂, Dry Chemical, low velocity water fog, Halon (if permitted), 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 Prote Equipment (PPE). Use safety glasses or safety goggles and face shield; use gloves and other protective clo (e.g., apron, boots, etc.) to prevent skin contact. Small Spills: Wear appropriate protective equipment including gloves and protective eyewear. Use a combustible, inert material such as vermiculite or sand to soak up the product and place into a container for disposal. Large Spills: Keep incompatible materials (e.g., oxidizers, strong acids, alkalis) away from spill. Stay upwing away from spill or release. Isolate immediate hazard area and keep unauthorized personnel out of area. Stog or release if it can be done with minimal risk. Wear appropriate protective equipment including respi protection as conditions warrant. Recover as much free liquid as possible and collect in acid-resistant cont. Use absorbent to pick up residue. Avoid discharging liquid directly into a sewer or surface waters. 7. HANDLING & STORAGE INFORMATION Avoid breathing mists or spray. Avoid eye and skin contact. Wear protective equipment when handling protection of the reach of children. Do not eat, drink or smoke when handling this product. Wash thoroughly	non- later d ance p spill ratory ainer oduct r after direct satible			



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WP-984 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 2.0 SDS Revision Date: 12/31/2013 8. EXPOSURE CONTROLS & PERSONAL PROTECTION Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from 8.1 Ventilation & Engineering Controls: the handling of this product. 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: 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 (EU) 8.4 Hand Protection: 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 9.1 Appearance: Dark yellow liquid 92 Odor. Petroleum odor Odor Threshold 9.3 NA 9.4 NA 9.5 Melting Point/Freezing Point NA 9.6 Initial Boiling Point/Boiling Range: NA Flashpoint: 9.7 > 220 °C (> 428 °F), DIN ISO 2592 Upper/Lower Flammability Limits: 9.8 NA Vapor Pressure: 9.9 NA Vapor Density: 9.10 NA 9.11 Relative Density 0.839 g/cm³, DIN ISO 12185 9.12 Solubility Insoluble 9.13 Partition Coefficient (log Pow): NA 9 14 Autoignition Temperature: > 250 °C (> 482 °F) Decomposition Temperature: 9.15 NA 9.16 Viscosity: Kinematic (100 °C (212 °F)): 7 mm²/s, DIN 51 562 T1; Dynamic: (-40° C (-40°F)): 7400 mPa (ASTM D2983) 9.17 Other Information: 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), and nitrogen (NO_x). 10.3 Hazardous Polymerization Will not occur. 10.4 Open flames, high heat and direct sunlight. 10.5 Incompatible Substances Strong oxidizing agents, acids or alkalis. **TOXICOLOGICAL INFORMATION** Ingestion: YES Routes of Entry: Inhalation: NO Absorption: YES 11.1 11.2 Toxicity Data: This product has not been tested on animals to obtain toxicological data. Toxicology data for some of the components in this mixture, found in scientific literature, are presented below: Petroleum Oils: LD₅₀ (oral, rat) > 5000 mg/kg; LD₅₀ (dermal, rabbit) > 2000 mg/kg; LD₅₀ (inhalation, rat) > 5000 mg/m³. 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 based on its IARC, ACGIH, NTP, or EPA classification. 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: 11.9 Physician Recommendations: Treat symptomatically. Contact a poison treatment specialist if a large quantity was ingested or inhaled.



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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 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: Do not allow product to reach ground water, water bodies or sewage system. WGK: 2. 122 Effects on Plants & Animals: There is no specific data available for this product. 12.3 Effects on Aquatic Life: There is no specific data available for this product. 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. 13.2 Special Considerations: Used oil may be recyclable. Contact the federal, state or provincial environmental authority to determine suitability for recycling and or proper disposal requirements. European Waste Catalog: 13 02 06 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): NOT REGULATED 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 SCT (MEXICO): 14.6 NOT REGULATED ADGR (AUS): 14.7 **NOT REGULATED** 15. REGULATORY INFORMATION SARA Reporting Requirements: This product does not contain any substances subject to SARA Title III, section 313 reporting requirements. 15.1 15.2 SARA Threshold Planning Quantity: NA TSCA Inventory Status: 15.3 All components of this product are listed in the TSCA Inventory or are exempt. CERCLA Reportable Quantity (RQ): 15.4 NA 15.5 Other Federal Requirements: 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). Other Requirements: 15.8 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



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16. OTHER INFORMATION			
16.1	Other Information:	Wear protective gloves/eye protection	ALLOWED AND ENTERS AIRWAY. May cause an allergic skin reaction. If swallowed, immediately call a Poison Center or doctor/physician. Avoid or rash occurs: Get medical advice/attention. KEEP OUT OF REACH OF
16.2	Terms & Definitions:	See last page of this Safety Data Shee	et.
16.3	Disclaimer:	Other government regulations must be Worldpac's knowledge, the information suitability or completeness is not guprovided. The information contained	ursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. be reviewed for applicability to this product. To the best of ShipMate's & contained herein is reliable and accurate as of this date; however, accuracy, aranteed and no warranties of any type, either expressed or implied, are herein relates only to the specific product(s). If this product(s) is combined roperties must be considered. Data may be changed from time to time. Be
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	WORLDPAC ":::jilliliji) World Wide Parts and Accessories Corporation
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	ShipMate* Dangerous Goods Training & Consulting



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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	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 and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

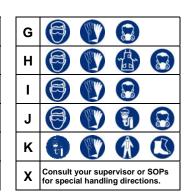
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α			
В			
С		型	
D	B	型	
E			
F			







Splash Goggles



Synthetic Apron





Protective Clothing & Full Suit



Dust & Vapor Half-**Full Face Respirator**



Airline Hood/Mask or SCBA

Mask Respirator OTHER STANDARD ABBREVIATIONS:

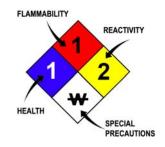
NA	Not Available	
NR	NR No Results	
NE	NE Not Established	
ND	ND Not Determined	
ML Maximum Limit		
SCBA	Self-Contained Breathing Apparatus	

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	L 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
50	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:

Canadian Workplace Hazardous Material Information System					
U.S. Department of Transportation					
Transport Canada					
U.S. Environmental Protection Agency					
Canadian Domestic Substance List					
Canadian Non-Domestic Substance List					
Canadian Priority Substances List					
U.S. Toxic Substance Control Act					
European Union (European Union Directive 67/548/EEC)					
Wassergefährdungsklassen (German Water Hazard Class)					

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	*	(2)		\odot	(18)		
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:

11.4		M	*			×	×
С	E	F	N	0	Т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

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