





MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PENTOSIN FFL-2					
PRODUCT NUMBER:					
TRADE NAME: PENTOSIN FFL-2 GENERAL USE: Double Clutch Gear Oil CHEMICAL FAMILY: Blend of Oil Based Lubricants and Additives. PRODUCT DESCRIPTION: Brown colored liquid with a characteristic odor.					
MANUFACTURED FOR CRP Industries	EFFECTIVE DATE: January 11, 2011				
TELEPHONE NUMBER (General Inquiries) 609-578-4100	DATE OF EXPIRATION: January 10, 2014				
ADDRESS (NUMBER, STREET, P.O. BOX) 35 Commerce Drive	SUPERSEDES DATE: New Issue				
(CITY, STATE AND ZIP CODE) Cranbury NJ 08512	CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBERS				
COUNTRY USA	 <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">1-800-255-3924</td> <td style="text-align: center;">813-248-0585</td> </tr> <tr> <td style="text-align: center;">North America (Toll Free)</td> <td style="text-align: center;">International and Local Calls</td> </tr> </table>	1-800-255-3924	813-248-0585	North America (Toll Free)	International and Local Calls
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SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW		
Caution! Harmful by inhalation. Harmful in contact with skin. Do not breathe vapor or mist. Do not get in eyes. Avoid contact with skin and clothing. Wash thoroughly after handling.		
USA (DOT)	CANADA (WHMIS) SYMBOL(S)	GHS HAZARD SYMBOLS
None	None	None
HMIS HAZARD RATINGS		
0 = INSIGNIFICANT, 1 = SLIGHT, 2 = MODERATE 3 = HIGH, 4 = EXTREME * - CHRONIC HEALTH HAZARD	HEALTH:	1
	FLAMMABILITY:	0
	PHYSICAL HAZARD:	0
REQUIRED PERSONAL PROTECTIVE EQUIPMENT:		
HMIS PERSONAL PROTECTIVE EQUIPMENT LETTER:	 	Wear safety glasses and impervious gloves. See Section 8 for details on Personal Protective Equipment.
B		
POTENTIAL HEALTH EFFECTS		
ACUTE EXPOSURE EFFECTS		
INHALATION:		
Irritation of the respiratory tract may occur from inhalation of product mists, especially with prolonged exposure. Synthetic lubricant oil content can produce chemical pneumonitis.		
SKIN:		
Irritation and itching may occur and prolonged contact may cause dermatitis. The problem may be exacerbated by liquid becoming trapped against the skin by contaminated clothing and shoes; skin absorption can occur in these cases.		
EYES:		
Tearing, redness and pain may occur; chemical conjunctivitis may result, especially in cases where the eyes are not promptly rinsed.		
INGESTION:		
Ingestion may result in gastrointestinal irritation, nausea, vomiting, aspiration, and chemical pneumonitis. Product is an aspiration hazard if swallowed due to its synthetic lubricants content.		
CHRONIC EXPOSURE EFFECTS		
Dermatitis may occur from chronic or prolonged skin exposure. Eye irritation may occur with chronic/prolonged eye exposure to product.		
CARCINOGENICITY:		
NTP? NO	IARC MONOGRAPHS? NO	OSHA REGULATED? NO
CALIFORNIA, Prop.65? NO		ESIS NOTATION? NO

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SECTION 3 - HAZARDOUS INGREDIENTS	
Hazardous Components	% (by Weight)
CAS #	
No hazardous components are listed for this product.	
<p>NOTES: This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS). Hazard symbols and risk phrases are based on maximum listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200) or the Canadian Workplace Hazardous Materials Information System (WHMIS) and are considered trade secrets under relevant US and Canadian Federal Laws.</p>	
SECTION 4 - FIRST AID MEASURES	
INHALATION:	
Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, use mouth-to-mouth resuscitation.	
EYES:	
Rinse eyes with cool potable water for 5 minutes, then remove contact lenses if present. Wash for at least 10 more minutes with cool potable water lifting upper and lower lids occasionally. Seek medical attention if irritation persists.	
SKIN:	
Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury. If heated product causes burns, seek medical assistance.	
INGESTION:	
Contact medical authorities immediately. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs naturally, have victim lean forward to avoid aspiration of regurgitant. Give 1-2 glasses of water to victim if victim is conscious and able to swallow and seek immediate medical assistance. Never give anything by mouth to an unconscious person.	
SECTION 5 - FIRE FIGHTING MEASURES	
DATA RELATED TO FIRE:	
FLASH POINT: >428°F / >220°C	AUTO-IGNITION TEMPERATURE: NE
FLAMMABLE/EXPLOSIVE LIMITS:	LOWER: NE UPPER: NE
SENSITIVITY TO MECHANICAL IMPACT/ STATIC DISCHARGE:	None
GENERAL HAZARDS:	
Product is minimally combustibile at elevated temperatures. Irritating and/or harmful vapors may be emitted under fire conditions.	
SUITABLE EXTINGUISHING MEDIA:	
CO2, Dry Chemical, or Alcohol-Resistant Foam.	
UNSUITABLE EXTINGUISHING MEDIA:	
Choose extinguishing media with respect to total fire hazard. Avoid water streams as this will spread fire.	
FIRE FIGHTING PROCEDURES:	
Prevent product runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use protective equipment and self-contained breathing apparatus (SCBA), and should fight fire based on total fire hazards. Use of water spray or fog to cool fire exposed surfaces and prevent the rupture of containers is acceptable if runoff control is implemented.	
UNUSUAL FIRE AND EXPLOSION HAZARDS:	
Product containers will rupture and leak from heat; released product will pose a slip and fall hazard to fire-fighting personnel. Use water spray or fog to cool fire-exposed containers where runoff control is implemented.	
HAZARDOUS COMBUSTION PRODUCTS:	
Carbon monoxide and dioxide, hydrocarbon compounds, smoke, soot, fumes, - fire conditions only.	


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SECTION 6 - ACCIDENTAL RELEASE MEASURES			
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:			
Stop leak if you can do it without risk. Small Spills: Absorb with earth, sand or other noncombustible material and transfer to containers for later disposal. Recover by pumping or with suitable absorbent. Large Spills: Prepare earthen or manufactured dikes ahead of spill; prevent discharge or entry into bodies of water, sewers, basements or confined areas. For large spills or spills on water, contact local authorities and the National Response Center toll-free at (800)424-8802. Avoid direct discharge to watercourses.			
SECTION 7 - HANDLING AND STORAGE			
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:			
Handling: Prevent small spills and leakage to avoid slip hazard. Wear personal protective equipment. Keep containers tightly closed. Do not store with incompatible materials. KEEP OUT OF THE REACH OF CHILDREN.			
Storage: Do not store in open or unlabelled containers.			
SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION			
Component	CAS #	ACGIH Exposure Limits (mg/m³ unless otherwise noted)	OSHA Exposure Limits (mg/m³ unless otherwise noted)
No exposure regulated components are listed for this product.			
PERSONAL PROTECTION			
RESPIRATORY PROTECTION:			
Not required for normal work situations where adequate ventilation is provided. Use NIOSH European EN-149 approved self contained, positive pressure respirators or Self-Contained Breathing Apparatus (SCBA) for emergencies and in situations where air may be displaced by vapors. Follow OSHA Std. 29CFR 1910.134.			
PROTECTIVE GLOVES:			
Use impervious gloves if there is prolonged or repeated contact of liquid with skin. Solvex gloves recommended.			
EYE PROTECTION:			
Safety glasses with side shields required.			
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:			
No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.			
ENGINEERING CONTROLS:			
Eyewash fountain or emergency eyewash bottle should be present in work area. Personal protective clothing and use of equipment must be in accordance with 29CFR 1910.132 and 29CFR 1910.133.			
WORK / HYGIENIC PRACTICES:			
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.			
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES			
APPEARANCE AND ODOR	VAPOR PRESSURE		
Brown colored liquid with a characteristic odor.	NE		
ODOR THRESHOLD	SPECIFIC GRAVITY (WATER = 1)		
NA	0.841 g/cm ³ at 20°C, 68°F (ISO 12185)		
FREEZING / MELTING POINT	BOILING POINT		
-51°C, -59.8°F	NE		
SOLUBILITY IN WATER	COEFFICIENT OF WATER / OIL DISTRIBUTION		
Insoluble	Not Determined but favors oil.		
pH	SOLUBILITY IN ORGANIC SOLVENTS		
NA	Variable, dependent upon solvent		
FLASH POINT	VISCOSITY		
>428°F / >220°C	36.0 mm ² /s (DIN EN ISO 3104) - Kinematic		

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PRODUCT NAME: PENTOSIN FFL-2			
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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (Continued)			
FLAMMABLE LIMITS LEL: NE UEL: NE	VAPOR DENSITY (AIR = 1) NE		
AUTOIGNITION TEMPERATURE NE	EVAPORATION RATE (Butyl Acetate = 1) Not Determined		
VOLATILE ORGANIC COMPOUND (VOC) INFORMATION Not Known.			
SECTION 10 - STABILITY AND REACTIVITY			
STABILITY Stable under normal conditions.	CONDITIONS TO AVOID: Excessive heat. Oxidizers.		
INCOMPATIBILITY (MATERIALS TO AVOID): Incompatible with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon monoxide and dioxide, hydrocarbon compounds, smoke, soot, fumes, - fire conditions only.			
HAZARDOUS POLYMERIZATION: Will not occur.	CONDITIONS TO AVOID: None related to hazardous polymerization.		
SECTION 11 - TOXICOLOGICAL INFORMATION			
Complete Product			
Oral LD ₅₀	Not Known - ingested product is aspirant hazard if regurgitated.		
Dermal LD ₅₀	Not Known but capable of producing mild irritation.		
Inhalation LC ₅₀	Not Known - ingested product is aspirant hazard if regurgitated.		
Irritation / Sensitization	Mild irritant to eyes; possible mild irritant to skin.		
Carcinogenicity	No ingredients have been identified by IARC, NTP, OSHA, or ECHA to be carcinogens.		
Mutagenicity	Not Known		
Reproductive Toxicity	Not Known		
Teratogenicity	Not Known		
Product Components			
Component	CAS #	LD50 of Ingredient (Oral, Rat - unless otherwise specified)	LC50 of Ingredient (Inhalation, Rat - unless otherwise specified)
No acute toxicity information is available for the components of this product.			
SECTION 12 - ECOLOGICAL INFORMATION			
The product is biodegradable. Water hazard class 2 (Self-assessment): hazardous for aquatic organisms. Do not allow product to reach ground water, water bodies or sewage system.			
SECTION 13 - DISPOSAL CONSIDERATIONS			
WASTE DISPOSAL METHOD: Recycling of used/waste product is preferable to simple disposal. Product is suitable for supervised incineration at very high temperatures to prevent formation of undesirable combustion products. End user bears the responsibility to discard unused or waste product in accordance with local, state, and federal laws and regulations.			
SECTION 14 - TRANSPORT INFORMATION			
PROPER SHIPPING NAME: Not regulated			
DOT HAZARD CLASS / Pack Group: Not regulated		IATA HAZARD CLASS / Pack Group: Not regulated	
REFERENCE: 49 CFR, IATA, IMDG, RID/ADR 2009		IMDG HAZARD CLASS: Not regulated	
UN / NA IDENTIFICATION NUMBER: None		RID/ADR Dangerous Goods Code: Not regulated	
LABEL: Not regulated		TDG Class / Pack Group: Not regulated	
HAZARD SYMBOLS: None		Hazard Identification Number (HIN): Not regulated	
Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.			

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PRODUCT NAME:	PENTOSIN FFL-2		
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SECTION 15 - REGULATORY INFORMATION			
TSCA (USA - Toxic Substance Control Act):	Components listed under section 8(b).		
SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):			
Acute Health:	NO	Chronic Health:	NO
Fire:	NO	Sudden Release of Pressure:	NO
Reactive:	NO		
SARA 313 REPORTABLE INGREDIENTS:	No ingredients are reportable.		
EPCRA (Emergency Planning and Community Right-to-Know Act):	This material contains no extremely hazardous substances.		
CERCLA (USA - Comprehensive Response Compensation and Liability Act):	None listed.		
Clean Water Act (CWA):	No listings as Hazardous Substances, Priority Pollutants, or Toxic Pollutants under the CWA.		
Clean Air Act (CAA):	No listings under the CAA.		
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:	No components listed.		
State Right to Know Laws:	None of the components are listed.		
CPR (Canadian Controlled Products Regulations):	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.		
WHMIS Class:	Not a WHMIS controlled substance.		
IDL (Canadian Ingredient Disclosure List):	None listed.		
DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):	Listed on DSL.		
SECTION 16 - OTHER INFORMATION			
Legend:			
ACGIH	American Congress of Government Industrial Hygienists		
CAS	Chemical Abstracts Service		
EINECS	European Inventory of Existing Commercial Chemical Substances		
HMIS	Hazardous Materials Identification System		
IARC	International Agency for Research on Cancer		
NA	Not Available	ND	Not Determined
NE	Not Established	NR	Not Reported
NIOSH	National Institute for Occupational Safety and Health		
NTP	National Toxicology Program		
OSHA	Occupational Safety and Health Administration		
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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.			