SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION					
PRODUCT NAME: PENTOSIN SUPER DOT 4					
PRODUCT NUMBER:					
TRADE NAME: PENTOSIN SUPER					
GENERAL USE: Automotive Brake F					
CHEMICAL FAMILY: Polyglycols, Polyglyc Polyglycoletherborates and Inhibitors.	ol ethers,				
PRODUCT DESCRIPTION:					
Yellow liquid with characteristic odor.					
MANUFACTURED FOR		A	υτοмοτινι	E	
CRP Industries		EFFECTIVE DATE:	January 11, 2011		
TELEPHONE NUMBER (General Inquiries	6)	DATE OF EXPIRATION:	January 10, 2014		
609-578-4100		SUPERSEDES DATE:	New Issue		
ADDRESS (NUMBER, STREET, P.O. BO)	()	CHEMTEL 24-HOUR		-	
35 Commerce Drive		ChemTel	1-800-255-3924	813-248-0585	
(CITY, STATE AND ZIP CODE) Cranbury NJ 08512	COUNTRY USA		North America (Toll Free)	International and Local Calls	
		ARDS IDENTIFICATION		and Local Calls	
EMERGENCY OVERVIEW					
	(Kidneye Liver Co	ntral Narvaua Svotam - E	(ac) Invitant MUMIC	Hazard Classes	
OSHA HAZARDS: Target Organ Toxicity D2B - Other Toxic Effects (Irritation). Hy					
indiviuals. May cause central nervous syste					
vapors and mists may be slightly irritating to					
USA (DOT) CANADA (WHMIS			S HAZARD SYMBOLS	-	
	,, • • • • • • • • • • • • • • • • • •	••••			
None (T	-)				
ن ن					
HMIS HAZARD RATINGS					
0 = INSIGNIFICANT, 1 = SLIGHT, 2	= MODERATE	HEALTH:		1	
3 = HIGH, 4 = EXTREN		FLAMMABILITY:		1	
* - CHRONIC HEALTH HA	ZARD	PHYSICAL HAZARD:		0	
REQUIRED PERSONAL PROTECTIVE EQUIPMENT:					
HMIS PERSONAL PROTECTIVE	E EQUIPMENT LETTI		r safety glasses. See		
Α		deta	ils on Personal Prote	ective Equipment.	
POTENTIAL HEALTH EFFECTS					
ACUTE EXPOSURE EFFECTS					
INHALATION:					
Headache, nausea, dizziness, and irritatior	of the respiratory tra	ct may occur from inhalation	on of product mists, esp	pecially with	
prolonged exposure.					
SKIN:					
Redness and itching may occur; prolonged	-	-		liquid becoming	
trapped against the skin by contaminated c	lothing and shoes; sk	in absorption can occur in	these cases.		
EYES:				and an an and the strength of the	
Tearing, redness and pain may occur; cher	nical conjunctivitis ma	ay result, especially in case	es where the eyes are r	not promptly rinsed.	
INGESTION:					
Ingestion may result in nausea, vomiting, headache, dizziness, and gastrointestinal irritation; kidney and liver damage may result, especially with ingestions of large quantities . Vomiting and subsequent aspiration into the lungs may lead to pneumonitis.					
CHRONIC EXPOSURE EFFECTS					
Dermatitis may occur from chronic or prolonged skin exposure. Eye irritation will occur with chronic/prolonged eye exposure to product.Multiple ingestions of product may result in irreversible liver and kidney damage.					
CARCINOGENICITY:		ver and kidney damage.			
	C MONOGRAPHS?	NO		NO	
CALIFORNIA, Prop.65? NO			OSHA REGULATED? ESIS NOTATION?		
			LOID NOTATION!	NO	

**PENTOSIN SUPER DOT 4** 

### **SECTION 3 - HAZARDOUS INGREDIENTS**

Hazardous Components	% (by Weight)	CAS #			
Triethylene Glycol Monobutyl Ether (2-[2-(2-butoxyethoxy)ethoxy]ethanol)	<10%	143-22-6			
Polyethylene Glycol Butyl Ether (Butylpolyglycol)	< 5%	9004-77-7			
Diethylene Glycol (2,2'-oxybisethanol)	< 5%	111-46-6			
Diisopropanolamine (1,1'-iminodipropan-2-ol)	< 2.5%	110-97-4			

**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.

### 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:	266°F / 130°C	AUTO-IGNITION TEM	AUTO-IGNITION TEMPERATURE:		
FLAMMABLE/EX	PLOSIVE LIMITS:	LOWER:	0.7%	UPPER:	22%
SENSITIVITY TO MECHANICA	L IMPACT/ STATIC DISCH	ARGE: None			
GENERAL HAZARDS:					
Product is combustible at elevat	ed temperatures. Irritating a	nd/or harmful vapors may b	e emitted under	ire conditions.	
SUITABLE EXTINGUISHING M	IEDIA:				
CO2, Dry Chemical, or water sp	ray.				
UNSUITABLE EXTINGUISHING	G MEDIA:				
Choose extinguishing media with respect to total fire hazard; all media forms are acceptable with this product					
FIRE FIGHTING PROCEDURE	S:				
Prevent product runoff from fire protective equipment and self-co or fog to cool fire exposed surfac	ontained breathing apparatu	s (SCBA), and should fire	based on total fire	hazards. Use o	
UNUSUAL FIRE AND EXPLOS	ION HAZARDS:				
Product containers will rupture a water spray or fog to cool fire-ex			I fall hazard to fir	e-fighting person	nel. Use
	DODUOTO				

HAZARDOUS COMBUSTION PRODUCTS:

Carbon monoxide and dioxide, oxides of nitrogen, hydrocarbon compounds, smoke, soot, fumes, nitrogen oxides.

PENTOSIN SUPER DOT 4

PRODUCT NAME:

PRODUCT NUMBER:					
SE	CTION 6	ACCIDENTAL RELEASE MEAS	SURES		
STEPS TO BE TAKEN IN CASE MA	TERIAL IS RI	ELEASED OR SPILLED:			
Stop leak if you can do it without risk.	Small Spills:	Absorb with earth, sand or other noncom	bustible material and transfer to containers		
			then or manufactured dikes ahead of spill;		
			arge spills or spills on water, contact local		
authorities and the National Respons	e Center toll	-free at (800)424-8802.			
	SECTIO	N 7-HANDLING AND STORAG	ЭЕ		
PRECAUTIONS TO BE TAKEN IN H					
-	-		quipment. Keep containers tightly closed.		
		active, glycol-reactive). KEEP OUT OF T⊦	IE REACH OF CHILDREN.		
Storage: Do not store in open or unla			PROTECTION		
SECTION	8 - EXPUS	SURE CONTROLS / PERSONAL			
Component	CAS #	ACGIH Exposure Limits (mg/m3 unless otherwise noted)	OSHA Exposure Limits (mg/m3 unless otherwise noted)		
Exposure limits have not been establ	ished for any	of the components of this product by ACC			
PERSONAL PROTECTION					
RESPIRATORY PROTECTION:					
Not required for normal work situatior	ns where ade	quate ventilation is provided. Use NIOSH	European EN-149 approved self		
		ntained Breathing Apparatus (SCBA) for e	emergencies and in situations where air		
may be displaced by vapors. Follow (	OSHA Std. 29	OCFR 1910.134.			
PROTECTIVE GLOVES:					
	peated conta	ct of liquid with skin. Solvex gloves recom	mended.		
EYE PROTECTION:					
Safety glasses with side shields requ					
OTHER PROTECTIVE CLOTHING C					
		nal conditions of use. In accordance with	good industrial hygiene practices,		
precautions should be taken to avoid	skin contact.				
ENGINEERING CONTROLS:	waab battla al	hould be present in work area. Personal p	rotactive elething and use of equipment		
must be in accordance with 29CFR 1			rotective clothing and use of equipment		
WORK / HYGIENIC PRACTICES:	310.152 and	23011(1910.103.			
	ne measures	, such as washing after handling the mate	rial and before eating drinking and/or		
		tive equipment to remove contaminants.			
footwear that cannot be cleaned. Pra			5		
SEC1	TION 9 - P	HYSICAL AND CHEMICAL PRO	PERTIES		
APPEARANCE AND ODOR		VAPOR PRESSURE			
Yellow liquid with characteristic odor.		0.001 hPa at 20°C (68°F)	0.001 hPa at 20°C (68°F) [STEAM PRESSURE]		
ODOR THRESHOLD		SPECIFIC GRAVITY (WA	SPECIFIC GRAVITY (WATER = 1)		
NA		1.065 g/cm3 (ISO 3104)			
FREEZING / MELTING POINT		BOILING POINT			
-58.0°F / -50.0°C			265°F / 197°C		
SOLUBILITY IN WATER			COEFFICIENT OF WATER / OIL DISTRIBUTION		
,		Not Determined			
рН			SOLUBILITY IN ORGANIC SOLVENTS		
8		Variable, dependent upon	solvent		
FLASH POINT			VISCOSITY		
266°F / 130°C			14.5 mm²/s (DIN EN ISO 3104) - Kinematic		
FLAMMABLE LIMITS     VAPOR DENSITY (AIR = 1)       LEL: 0.7%     UEL: 22%			1)		
LEL: 0.7% UEL: 22% NE   AUTOIGNITION TEMPERATURE EVAPORATION RATE (Butyl Acetate = 1)					
752°F / 400°C		Not Determined			
VOLATILE ORGANIC COMPOUND (VOC) INFORMATION					
Not Known.					
NOTES: None					

PRODUCT NAME:	RODUCT NAME: PENTOSIN SUPER DOT 4				
PRODUCT NUMBER:					
SECTION 10 - STABILITY AND REACTIVITY					
STABILITY	CONDITIONS TO AVOID:				
Stable under normal conditions.	ions. Excessive heat. High energy sources of ignition.				
INCOMPATIBILITY (MATERIALS TO	D AVOID):				
Incompatible with acids, strong base	s, strong oxidizing agents.				
HAZARDOUS DECOMPOSITION O	R BYPRODUCTS:				
Carbon monoxide and dioxide, hydro	carbon compounds, smoke,	soot, fumes, nitrogen oxides - fire con	ditions only.		
HAZARDOUS POLYMERIZATION:		CONDITIONS TO AVOID:			
Will not occur.		None related to hazardous polymeriza	ation.		
	SECTION 11 - TOXICO	DLOGICAL INFORMATION			
		ete Product			
Oral LD <sub>50</sub>	-	nful by ingestion and is an aspirant ha	zard		
Dermal LD <sub>50</sub>	Not Known - may be irritatir				
Inhalation LC <sub>50</sub>		s may be irritating to respiratory tract			
Irritation / Sensitization		ossible irritant to skin and respiratory tr	act.		
Carcinogenicity		dentified by IARC, NTP, OSHA, or ECH			
Mutagenicity	Not Known				
Reproductive Toxicity	Multiple ingestions of the pr	oduct may result in impaired reproduct	ivity.		
Teratogenicity	Not Known				
	Product	Components			
Component	CAS#	LD50 of Ingredient (Oral, Rat - unless otherwise specified)	LC50 of Ingredient (Inhalation, Rat - unless otherwise specified)		
Triethylene Glycol Monobutyl Ether, (2-[2-(2-butoxyethoxy) ethoxy]ethanol)	143-22-6	5300mg/kg	LD50 = 3540mg/kg (Rabbit, Dermal)		
Polyethylene Glycol Butyl Ether, (Butylpolyglycol)	9004-77-7	NE	NE		
Diethylene Glycol, (2,2'-oxybisethanol)	111-46-6	12000 mg/kg	NE		
Diisopropanolamine, (1,1'-iminodipropan 2-ol)	110-97-4	4765 mg/kg;	NE		
	SECTION 12 - ECOL	OGICAL INFORMATION			
	exercised to avoid the accide	panisms. There is limited information av ntal release of this material to aquatic a unts.			
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	-	IATA HAZARD CLASS / Pack Group:			
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			_		
	N	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.					

PRODUC	T NAME:	PENTOSIN SUPER	DOT 4					
	T NUMBER:							
		SECTION 15 - F	REGULATORY	INFORMATION				
TSCA (U	TSCA (USA - Toxic Substance Control Act): Components listed under sections 4 and 8(b).							
		nd Amendments and Rea			(-)-			
	Acute Health:	YES	,	Chronic Health:	NO			
	Fire:	NO		Sudden Release of Pressure:	NO			
	Reactive:	NO						
SARA 31	<b>3 REPORTABLE INGF</b>	REDIENTS:						
EPCRA (	Emergency Planning ar	nd Community Right-to-Kr	now Act): This mate	erial contains no extremely h	azardous substances.			
CERCLA	(USA - Comprehensiv	e Response Compensatio	on and Liability Act)	None listed.				
Clean Wa	ater Act (CWA): No list	ings as Hazardous Sub	stances, Priority F	Pollutants, or Toxic Pollutants	s under the CWA.			
	Act (CAA): No listing							
		g Water and Toxic Enforce		No component				
-			6) is listed in the <b>F</b>	ight to Know Acts of NJ, PA	, CAS#111-46-6 is listed			
-	N. CAS#110-97-4 is lis							
				assified in accordance with the				
	-			mation required by those regu	lations.			
WHMIS C	Class: D2B: Materials	causing other toxic effe	cts.		$\odot$			
IDL (Car	nadian Ingredient Disclo	sure List): CAS# ·	110-97-4 is listed.					
DSL/ND	SL (Canadian Domest	ic Substances List / Non-I	Domestic Substand	es List): Listed on DSL.				
		SECTION 1	6 - OTHER INF	ORMATION				
Legend	l:							
ACGIH		Government Industrial Hygie	nists					
CAS	Chemical Abstracts Ser							
EINECS	European Inventory of E	Existing Commercial Chemic	al Substances					
HMIS	Hazardous Materials Ide	-						
IARC	International Agency for							
NA		Not Determined						
NE NIOSH		IR Not Reported	<b>`</b>					
NTP								
OSHA	Occupational Safety and							
		on authored 1/11/2011. JTV						
	repared by:							
ChemTel								
	th Florida Avenue			CharaTa				
	Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573							
	www.chemtelinc.com							
The informa	ation contained herein is belie	ved to be accurate but is not wa	rranted to be so. Data a	nd calculations are based on informati	on furnished by the manufacturer			
		• •		rm in advance of need that information				
				d persons proximately caused by the	-			
	•			s no responsibility for injury caused boot directed to the manufacturer of the				
Section 1.	, procedured are							