

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards    MSDS Revision: 1.0    MSDS Revision Date: 10/01/2008

## 1. PRODUCT IDENTIFICATION

CHEMICAL RESPONSE CARD: **10**

1.1	Product Name:	<b>PENTO HIGH PERFORMANCE II 5W-40</b>
1.2	Chemical Name:	See ingredients listed in section 3
1.3	Synonyms:	None reported by the manufacturer
1.4	Trade Names:	Pento High Performance II 5W-40
1.5	Product Use:	Automotive – Lubricant
1.6	Distributor's Name:	WorldPac, Inc.
1.7	Distributor's Address:	37137 Hickory Street, Newark, CA 94560, USA
1.8	Business Phone:	+ 1 (510) 608-5525
1.9	Emergency Phone:	CHEMTREC +1 (800) 527-3887 / +1 (703) 527-3887

RESPONSE TEAM PPE:				
WHMIS:				
HEALTH:	1			
FLAMMABILITY:	0			
REACTIVITY:	0			
PERSONAL PROTECTION:	B			

## 2. HAZARD IDENTIFICATION

2.1	Hazard Identification: <b>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). Combustible liquid.</b>			
2.2	Routes of Entry:	Inhalation: YES	Absorption: YES	Ingestion: YES
2.3	Effects of Exposure: <b>EYES:</b> This product can cause transient mild eye irritation with short-term contact with liquid sprays or mists. <b>SKIN:</b> This product can cause mild, transient skin irritation with short-term exposure. <b>INGESTION:</b> 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. <b>INHALATION:</b> No significant adverse health effects are expected to occur upon short-term exposure to this product.			
2.4	Symptoms of Exposure: <b>EYES:</b> Irritation, redness, and watering. <b>SKIN:</b> Possible irritation, defatting, or dermatitis (rash), characterized by dry, scaling, red, itching skin. <b>INGESTION:</b> Laxative effects. Gastrointestinal discomfort, nausea and headache. <b>INHALATION:</b> May cause irritation to the upper respiratory system.			
2.5	Acute Health Effects: <b>EYES:</b> Slightly irritating, but will not injure eye tissue. <b>SKIN:</b> Low toxicity. Frequent or prolonged contact may irritate the skin. <b>INGESTION:</b> Low toxicity. Laxative effects. Gastrointestinal discomfort, nausea and headache. <b>INHALATION:</b> Negligible. At elevated temperatures or through mechanical action, may form vapours, mists or fumes that may be irritating to the eyes, nose, throat and lungs.			
2.6	Chronic Health Effects: <b>None reported by the manufacturer.</b>			
2.7	Target Organs: <b>None reported by the manufacturer.</b>			
2.8	Toxicological Properties: <b>None reported by the manufacturer.</b>			

## 3. COMPOSITION & INGREDIENTS

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m <sup>3</sup> )								
					ACGIH		NOHSC			OSHA			OTHER
					TLV	STEL	ppm	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	
CALCIUM ALKYL SALICYLATE	NA	NA	NA	< 2.5	NA	NA	NF	NF	NF	NA	NA	NA	
ZINC DIALKYL DITHIOPHOSPHATE	68649-42-3	NA	272-028-3	< 2.5	NA	NA	NF	NF	NF	NA	NA	NA	

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 Z400.1-2004 format.

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## 4. FIRST AID

4.1	<p><b>First Aid:</b></p> <p><b>EYES:</b> Check for and remove contact lenses. Flush eyes with cool, clean, low-pressure water while occasionally lifting and lowering eyelids. Seek medical attention if excessive tearing, redness, or pain persists.</p> <p><b>SKIN:</b> Remove contaminated shoes and clothing. Wipe off excess material. Wash exposed skin with soap and water. Seek medical attention if tissue appears damaged or if irritation persists. Thoroughly clean contaminated clothing before reuse. Discard contaminated leather goods.</p> <p><b>INGESTION:</b> Do not induce vomiting unless directed to by a physician. Give plenty of water to drink, unless directed to by a physician. Never give anything by mouth to a person who is not fully conscious. Seek medical attention immediately.</p> <p><b>INHALATION:</b> In case of overexposure, move the person to fresh air. Give artificial respiration or oxygen if necessary, seek medical attention immediately.</p>
4.2	<p>Medical Conditions Aggravated by Exposure: None reported by the manufacturer.</p>

## 5. FIRE & EXPLOSION HAZARDS

5.1	Flashpoint & Method: <b>&gt;240 °C (&gt;464 °F)</b>		
5.2	Autoignition Temperature: <b>NA</b>		
5.3	Flammability Limits:	<b>NA</b>	<b>NA</b>
5.4	Fire & Explosion Hazards:		
5.5	This material can burn but will not readily ignite.		
5.6	Extinguishing Methods: Dry chemical, carbon dioxide, and water jet. Fight large fires with water jet or alcohol-resistant foam.		
	Firefighting Procedures: Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personnel. For safety reasons, unsuitable extinguishing agents do not use water with full water jet. Avoid spraying water directly into storage containers because of danger of rollover. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies.		

## 6. SPILLS & LEAKS

6.1	<p><b>Spills:</b></p> <p>Secure spill area, remove or minimize all sources of ignition, and maximize ventilation. Stop spill or leak at source if safely possible. Individuals involved in the cleanup must wear appropriate personal protective equipment. Recover free liquid or cover with inert absorbent material and place into appropriate container(s) for disposal. For small spills, absorb or cover with dry earth, sand, or other inert non-combustible absorbent material and place into waste containers for later disposal. Contain large spills to maximize product recovery or disposal. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers or any natural waterway or drinking supply. Contact appropriate local and/or provincial authorities for assistance and/or reporting requirements. For water spills, remove from surface by skimming or with suitable absorbents. If allowed by federal &amp; provincial environmental agencies, sinking and/or suitable dispersants may be used in unconfined waters. Consult an expert on disposal of recovered material. Ensure disposal on compliance with government requirements &amp; secure conformity to local disposal regulations. Notify the appropriate federal &amp; provincial authorities immediately. Take all additional action necessary to prevent &amp; remedy the adverse effects of the spill.</p>
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## 7. STORAGE & HANDLING

7.1	<p>Work &amp; Hygiene Practices: Use normal hygiene practices. Use skin protection cream for preventive skin protection. Avoid breathing vapors. Avoid direct skin contact. Wash hands thoroughly after using this product and before eating, drinking, or smoking.</p>
7.2	<p>Storage &amp; Handling: Use and store in a cool, dry, well-ventilated area. Keep away from excessive heat, open flames, sparks, and other possible sources of ignition. Do not store in unmarked containers or storage devices.</p>
7.3	<p>Special Precautions: Empty containers may contain product residue. Do not pressurize, cut, heat or weld empty containers. Do not reuse empty containers without commercial cleaning or reconditioning.</p>

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## 8. EXPOSURE CONTROL & PERSONAL PROTECTION

8.1	Ventilation & Engineering Controls: <b>The use of mechanical dilution ventilation is recommended to maintain airborne concentrations below the recommended occupational exposure limits, whenever this material is used in a confined space, is heated above normal temperatures (up to 38°C) or is agitated.</b>
8.2	Respiratory Protection: Vaporization or misting is not expected at ambient temperatures. Therefore, the need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved independent air supply respirator should be used. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134).
8.3	Eye Protection: <b>Safety glasses equipped with side shields should be adequate protection under most conditions of use. Wear goggles and/or face shield if splashing or spraying is anticipated. Wear goggles and face shield if material is heated above 125°F (51°C). Have suitable eye wash water available.</b>
8.4	Hand Protection: <b>Use gloves constructed of impermeable and resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact is expected. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Use heat-protective gloves when handling product at elevated temperatures.</b>
8.5	Body Protection: <b>None required. Avoid prolonged and/or repeated skin contact.</b>

## 9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Density:	0.846 g/cm <sup>3</sup> @ 20 °C (68 °F)
9.2	Boiling Point:	>200 °C (>392 °F)
9.3	Melting Point:	-42 °C (-44 °F)
9.4	Evaporation Rate:	NA
9.5	Vapor Pressure @ 20°C:	NA
9.6	Molecular Weight:	NA
9.7	Appearance & Colour:	Brown liquid, Mild Petroleum Odor
9.8	Odour Threshold:	NA
9.9	Solubility:	Insoluble
9.10	pH:	NA
9.11	Viscosity:	168 mm <sup>2</sup> /s @ 20 °C (68 °F)
9.12	Coefficient Oil/Water Distribution:	NA
9.13	Additional Information:	NA

## 10. STABILITY & REACTIVITY

10.1	Stability: <b>Stable under normal conditions.</b>
10.2	Decomposition Products: <b>Fumes, acrid smoke, and carbon oxides.</b>
10.3	Polymerization: NA
10.4	Conditions to Avoid: <b>Open flames, sparks and high heat.</b>
10.5	Incompatible Substances: <b>None reported by the manufacturer.</b>

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## 11. TOXICOLOGICAL INFORMATION

11.1	Toxicity Data:	<b>No eye or skin irritant effect, also no sensitization effect known.</b>
11.2	Acute Toxicity:	NA
11.3	Chronic Toxicity:	NA
11.4	Suspected Carcinogen:	NO
11.5	Reproductive Toxicity:	<b>This product is not expected to cause mutagenic effects in humans.</b>
	Mutagenicity:	<b>This product is not expected to cause embryotoxic effects in humans.</b>
	Embryo/toxicity:	<b>This product is not expected to cause teratogenic effects in humans.</b>
	Teratogenicity:	<b>This product is not expected to cause reproductive harm in humans.</b>
	Reproductive Toxicity:	<b>This product is not expected to cause reproductive harm in humans.</b>
11.6	Inflamcy of Product:	NA
11.7	Biological Exposure Indices:	NA
11.8	Medical Recommendations:	<b>None reported by the manufacturer.</b>

## 12. ECOLOGICAL INFORMATION

12.1	Environmental Stability:	<b>Analysis for ecological effects has not been conducted on this product. However, if spilled, this product and any contaminated soil or water may be harmful to human, animal, and aquatic life. Also, the cooling action associated with petroleum and petroleum products can be harmful or fatal to aquatic life and waterfowl.</b>
12.2	Effect on Plants & Animals:	<b>An environmental fate analysis has not been conducted on this specific product. However, plants and animals may experience harmful or fatal effects when coated with petroleum-based products.</b>
12.3	Effect on Aquatic Life:	<b>Petroleum-based (mineral) lube oils will normally float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway can result in a loss of marine life or create an anaerobic environment. This material contains phosphorus which is a controlled element for disposal in effluent waters in most sections of North America. Phosphorus is known to enhance the formation of algae. Severe algae growth can reduce oxygen content in the water possibly below levels necessary to support marine life.</b>

## 13. DISPOSAL CONSIDERATIONS

13.1	Waste Disposal:	<b>Dispose of in accordance with federal &amp; provincial hazardous waste laws.</b>
13.2	Special Considerations:	<b>If the material is unsuitable for recycling or reclamation, enclosed-controlled incineration is recommended unless otherwise prohibited by local ordinance.</b>

## 14. TRANSPORTATION INFORMATION

14.1	49 CFR (GND):	<b>NOT REGULATED</b>
14.2	IATA (AIR):	<b>NOT REGULATED</b>
14.3	IMDG (OCEAN):	<b>NOT REGULATED</b>
14.4	TDGR (CAN):	<b>NOT REGULATED</b>
14.5	ADR/RID (EU):	<b>NOT REGULATED</b>
14.6	SCT (MEXI):	<b>NOT REGULATED</b>
14.7	ADGR (AUST):	<b>NOT REGULATED</b>



# MATERIAL SAFETY DATA SHEET

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## 15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements: <b>This product contains zinc compounds, substances subject to SARA reporting requirements.</b>	
15.2	SARA Threshold Planning Quantity: <b>NA</b>	
15.3	TSCA Inventory Status: <b>The components of this product are listed on the TSCA inventory.</b>	
15.4	CERCLA Reportable Quantity (RQ): <b>NA</b>	
15.5	Other Federal Requirements: <b>Section 313 (Toxic Release Inventory): Zinc Compounds</b>	
15.6	Other Canadian Regulations <b>This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS 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.</b>	
15.7	State Regulatory Information: <b>New Jersey Worker &amp; Community Right to Know Act, N.J.A.C. 8:59-5 Labelling Information: Petroleum Oil</b>	
15.8	European Union 67/548/EEC and Australia NOHSC:2011 [2003] Requirements: <b>The primary components of this product are not listed in Annex I of EU Directive 67/548/EEC.</b>	

## 16. OTHER INFORMATION

16.1	Other Information: <b>NA</b>	
16.2	Terms & Definitions: <b>Please see last page of this Material Safety Data Sheet.</b>	
16.3	Disclaimer: This Material Safety Data Sheet complies with Health Canada's Workplace Hazardous Materials Information System (WHMIS) & U.S. OSHA's Hazard Communication Standard; 29 CFR §1910.1200. To the best of ShipMate's or Worldpac's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product. Contact the manufacturer for additional information.	
16.4	Prepared for: <b>Worldpac, Inc. 37137 Hickory Street Newark, CA 94560 510-608-5525 phone 510-742-9262 fax <a href="http://www.worldpac.com/">http://www.worldpac.com/</a></b>	
16.5	Prepared by: <b>ShipMate, Inc. 780 Buckaroo Trail, Suite D Sisters, OR 97759-0787 Phone: +1 (310) 370-3600 Fax: +1 (310) 370-5700 E-mail: <a href="mailto:shipmate@shipmate.com">shipmate@shipmate.com</a> <a href="http://www.shipmate.com/">http://www.shipmate.com/</a></b>	

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## 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

### 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.
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### 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:

A		G			
B		H			
C		I			
D		J			
E		K			
F		X	Consult your supervisor or S.O.P. for special handling directions.		

	Safety Glasses		Face Shield & Eye Protection		Gloves
	Boots		Synthetic Apron		Full Face Respiator
	Full Face Respiator		Dust & Vapor Half-Mask Respiator		Full Face Respiator
			Dust Respiator		Alline Hood/Mask or SCBA

Note: the dotted circle indicates that this respiratory protective equipment is required for high concentrations or for large volume spills or releases of product.

### OTHER STANDARD ABBREVIATIONS:

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

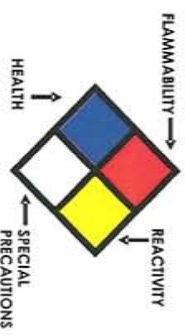
### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

#### FLAMMABILITY LIMITS IN AIR:

Autoignition Temperature	Minimum temperature required to initiate combustion 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

### HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
-WF	Use No Water
OX	Oxidizer



### TOXICOLOGICAL INFORMATION:

LD <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC <sub>50</sub>	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD <sub>01</sub>	Lowest dose to cause a symptom
TC <sub>01</sub>	Lowest concentration to cause a symptom
TD <sub>01</sub> , LD <sub>01</sub> , & LD <sub>01</sub> or TC, TC <sub>01</sub> , LC <sub>01</sub> , & LC <sub>01</sub>	Lowest dose (or concentration) to cause lethal or toxic effects
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTCS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
T <sub>lim</sub>	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
NIOSH	Australia National Occupational Health & Safety Code
PSL	Canadian Priority Substances List
TSCA	U.S. Toxic Substance Control Act
EU	European Union [European Union Directive 67/548/EEC]

### EC INFORMATION:

	Corrosive		Explosive		Flammable		Harmful		Oxidizing		Toxic		Hazardous		Very Hazardous
C		E		F		N		O		T+		XI		Xn	