



# Material Safety Data Sheet

## Section 1. Chemical Product and Company Identification

<b>Common Name</b>	<b>OPTIMOL LONGTIME PD 1</b>	<b>Code</b>
<b>Supplier</b>	CASTROL INDUSTRIAL NORTH AMERICA INC. 1001 WEST 31ST STREET DOWNERS GROVE, IL 60515-1280 Product Information: 630 241-4000	<b>Validation Date</b> 8/20/2001.
<b>Synonym</b>	Not available.	<b>Print Date</b> 8/20/2001.
<b>Trade name</b>	Not available.	<b>Responsible Name</b> Product Stewardship & Toxicology
<b>Material Uses</b>	See Product Data Sheet.	<b>In Case of Emergency</b> CHEMTREC (800) 424-9300
<b>Manufacturer</b>	CASTROL INDUSTRIAL NORTH AMERICA INC 1001 WEST 31ST STREET DOWNERS GROVE, IL 60515-1280	

## Section 2. Composition, Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
1) DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	64742-52-5	40-45	<b>ACGIH (United States).</b> TWA: 5 mg/m <sup>3</sup> Form: Mist <b>ACGIH (United States).</b> STEL: 10 mg/m <sup>3</sup> Form: Mist
2) DISTILLATES, PETROLEUM, SOLVENT-REFINED HEAVY PARAFFINIC	64741-88-4	35-40	<b>ACGIH (United States).</b> TWA: 5 mg/m <sup>3</sup> Form: Mist <b>OSHA (United States).</b> TWA: 5 mg/m <sup>3</sup> Form: Mist <b>ACGIH (United States).</b> STEL: 10 mg/m <sup>3</sup> Form: Mist

## Section 3. Hazards Identification

<b>Physical State and Appearance</b>	Liquid. (Red-brown/green grease)  Slight. Red. Brown. Green. Grease
<b>Emergency Overview</b>	WARNING! MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Wash clothing before reuse. Do not ingest. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. Avoid breathing vapors of this product. Avoid contact with eyes, skin and clothing.
<b>Routes of Entry</b>	Absorbed through skin. Eye contact. Inhalation. Ingestion.
<b>Potential Acute Health Effects</b>	May cause eye irritation. Oral LD50 not established. Do not ingest. TLV for product not established. Refer to Hazardous Materials List for ingredient TLV's. May cause skin irritation.
<b>Potential Chronic Health Effects</b>	CARCINOGENIC EFFECTS: Not known to be carcinogen. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.
<b>Medical Conditions Aggravated by Overexposure:</b>	Defatting to the skin. Repeated or prolonged contact with irritants may cause dermatitis.
<b>Overexposure /Signs/Symptoms</b>	Not available.

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See Toxicological Information (section 11)

**Section 4. First Aid Measures**

<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Notes to Physician</b>	Not available.

**Section 5. Fire Fighting Measures**

<b>Flammability of the Product</b>	May be combustible at high temperature.
<b>Autoignition Temperature</b>	Not available.
<b>Flash Points</b>	CLOSED CUP: >200°C (392°F).
<b>Flammable Limits</b>	Not available.
<b>Products of Combustion</b>	Potential combustion products are oxides of carbon and sulfur, molybdenum, phosphorous and zinc.
<b>Fire Hazards in Presence of Various Substances</b>	Not available.
<b>Explosion Hazards in Presence of Various Substances</b>	Non-explosive in presence of open flames, sparks and static discharge, of shocks.
<b>Fire Fighting Media and Instructions</b>	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet. Carbon dioxide, dry chemical, foam. Wear self contained breathing apparatus when fire fighting in a confined space. Cool fire exposed containers with waterspray to prevent rupture.
<b>Protective Clothing (Fire)</b>	Be sure to use an approved/certified respirator or equivalent.
<b>Special Remarks on Fire Hazards</b>	Potential combustion products are oxides of carbon, sulfur, molybdenum, phosphorous and zinc.
<b>Special Remarks on Explosion Hazards</b>	Empty containers may contain toxic, flammable/combustible or explosive residue or vapors. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards.

**Section 6. Accidental Release Measures**

<b>Small Spill and Leak</b>	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
<b>Large Spill and Leak</b>	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Do not allow to enter drains or watercourses.

## Section 7. Handling and Storage

Avoid breathing vapors or spray mists.

Keep container tightly closed. Keep container in a cool, well-ventilated area.

Wash contaminated clothing before reuse. Do not take internally. Avoid contact with skin and eyes. Keep containers closed when not in use. Store in cool dry place. Bring product to room temperature prior to use.

## Section 8. Exposure Controls, Personal Protection

### Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Good industrial hygiene practices recommend that engineering controls be used to reduce environmental concentrations to the threshold limit value (TLV) or permissible exposure limit (PEL), if applicable. If any associated TLV or PEL is exceeded, provide NIOSH approved respiratory protection.

### Personal Protection

**Eyes** Safety glasses.

**Body** Lab coat.

Eyewash facility

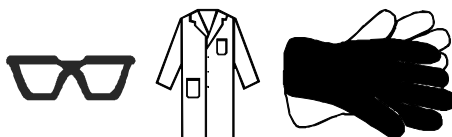
**Respiratory** Not applicable.

**Hands**

Chemical resistant gloves should be used when handling this product.

**Feet** Not applicable.

### Protective Clothing (Pictograms)



### Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### Product Name

### Exposure Limits

1) DISTILLATES, PETROLEUM, HYDROTREATED  
HEAVY NAPHTHENIC

#### ACGIH (United States).

TWA: 5 mg/m<sup>3</sup> Form: Mist

STEL: 10 mg/m<sup>3</sup> Form: Mist

2) DISTILLATES, PETROLEUM, SOLVENT-REFINED  
HEAVY PARAFFINIC

#### ACGIH (United States).

TWA: 5 mg/m<sup>3</sup> Form: Mist

STEL: 10 mg/m<sup>3</sup> Form: Mist

Consult local authorities for acceptable exposure limits.

## Section 9. Physical and Chemical Properties

### Physical State and Appearance

Liquid. (Red-brown/green grease)

### Odor

Slight.

### Boiling/Condensation Point

Not available.

### Taste

Not available.

### Melting/Freezing Point

Not available.

### Color

Red. Brown. Green. Grease

### pH Concentrate

Not applicable.

### pH Dilution % and Value

Not applicable.

### Critical Temperature

Not available.

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**Specific Gravity** 0.9 (Water = 1)

**Vapor Pressure** Not available.

**Vapor Density** Not available.

**Volatility** Not available.

**Odor Threshold** Not available.

**Evaporation Rate** Not available.

**VOC** Not available. **VOC Method** Not available.

**Viscosity** Not available.

**Solubility** Insoluble in cold water.

**Physical Chemical Comments** Not available.

### Section 10. Stability and Reactivity

**Stability and Reactivity** The product is stable.

**Conditions of Instability** None known.

**Incompatibility with Various Substances** Strong oxidizing agents.

**Hazardous Decomposition Products** Not available.

**Hazardous Polymerization** Will not occur.

### Section 11. Toxicological Information

**Toxicity to Animals** LD50: Not available.  
LC50: Not available.

**Chronic Effects on Humans** **CARCINOGENIC EFFECTS:** Not known to be carcinogen.  
**MUTAGENIC EFFECTS:** Not available.  
**TERATOGENIC EFFECTS:** Not available.  
**DEVELOPMENTAL TOXICITY:** Not available.

**Other Toxic Effects on Humans** No specific information is available in our database regarding the other toxic effects of this material for humans.

**Special Remarks on Toxicity to Animals** Not available.

**Special Remarks** In case of contact, flush eyes with plenty of water. Get medical attention if irritation persists. If swallowed, call a physician immediately. Only induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person. If respiratory discomfort or irritation occurs, move the person to fresh air. See a doctor if discomfort or irritation continues. Wash skin with soap and water. If irritation occurs, get medical attention. Wash clothing before reuse.

**Special Remarks on Other Toxic Effects on Humans** May cause eye irritation. Oral LD50 not established. Do not ingest. TLV for product not established. Refer to Hazardous Materials List for ingredient TLV's. May cause skin irritation.

**Section 12. Ecological Information**

<b>Ecotoxicity</b>	Not available.
<b>BOD and COD</b>	Not available.
<b>Biodegradable/OECD</b>	Not available.
<b>Mobility</b>	Not available.
<b>Products of Degradation</b>	Potential combustion products are oxides of carbon and sulfur, molybdenum, phosphorous, and zinc.
<b>Toxicity of the Products of Biodegradation</b>	Not available.
<b>Special Remarks on the Products of Biodegradation</b>	Not available.

**Section 13. Disposal Considerations**

<b>Waste Information</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations. Spills should be contained, absorbed and placed in suitable containers for disposal. Do not discharge into waterways or sewer systems. Dispose of in accordance with local, state and federal regulations. Disposal of this material to the land may be banned by federal law (40 CFR 268).
<b>RCRA Waste Code(s)</b>	USED OIL
<b>Waste Stream</b>	Not available.
<b>Consult your local or regional authorities.</b>	

**Section 14. Transport Information**

<b>DOT Classification</b>	Not regulated.	
	Not regulated.	
<b>Marine Pollutant</b>	Not pollutant.	
<b>Special Provisions for Transport</b>	Petroleum oil, not regulated in containers less than 3500 gallons.	
<b>ADR/RID Classification</b>	Not available.	
<b>IMO/IMDG Classification</b>	Not available.	
<b>ICAO/IATA Classification</b>	Not available.	

**Section 15. Regulatory Information**

<b>HCS Classification</b>	HCS Class: Irritating substance.
<b>U.S. Federal Regulations</b>	<p>SARA 302/304 emergency planning and notification: No products were found.</p> <p>SARA 311/312 MSDS distribution - chemical inventory - hazard identification: OPTIMOL LONGTIME PD 1: immediate health hazard.</p> <p>SARA 313 toxic chemical notification and release reporting: PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS 1%</p>

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Clean Water Act (CWA) 307: No products were found.  
 Clean Water Act (CWA) 311: No products were found.  
 Clean air act (CAA) 112 accidental release prevention: No products were found.  
 Clean air act (CAA) 112 regulated toxic substances: No products were found.  
 Clean air act (CAA) 112 regulated flammable substances: No products were found.

**State Regulations**

No products were found.

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS

**Inventory Lists**

TSCA 8(b) inventory: One or more of the materials contained in this product may not appear on the applicable inventory list. Please consult the manufacturer for additional information.

CEPA DSL: One or more of the materials contained in this product may not appear on the applicable inventory list. Please consult the manufacturer for additional information.

Australia (NICNAS): One or more of the materials contained in this product may not appear on the applicable inventory list. Please consult the manufacturer for additional information.

Korea (TCCL): One or more of the materials contained in this product may not appear on the applicable inventory list. Please consult the manufacturer for additional information.

Philippines (RA6969): One or more of the materials contained in this product may not appear on the applicable inventory list. Please consult the manufacturer for additional information.

MITI: One or more of the materials contained in this product may not appear on the applicable inventory list. Please consult the manufacturer for additional information.

EINECS: One or more of the materials contained in this product may not appear on the applicable inventory list. Please consult the manufacturer for additional information.

**Section 16. Other Information****Label Requirements**

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

**Hazardous Material Information System (U.S.A.)**

Health	1
Fire Hazard	1
Reactivity	0
Personal Protection	C

**National Fire Protection Association (U.S.A.)****References**

Not available.

**Other Special Considerations**

PETROLEUM OIL: STEL = 10 mg/M3. Using terminology of the International Agency for Research on Cancer (IARC), the petroleum distillates listed in Section II are classified by the supplier as severely processed. Not all those listed in Section II may be present. The supplier has stated that these distillates do not require a carcinogen label as defined by OSHA 29 CFR 1910.1200. No component known to be present in this product at >0.1% is presently listed as a carcinogen by IARC, NTP or OSHA.

Validated by Larry J. Barder-CINA on 8/20/2001.

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CHEMTREC (800) 424-9300

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Notice to Reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*