



Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Common Name	OPTIMOL LONGTIME PD 2	Code	62002-AG
Supplier	CASTROL INDUSTRIAL NORTH AMERICA INC. 1001 WEST 31ST STREET DOWNERS GROVE, IL 60515-1280 Product Information: 630 241-4000	Validation Date	05/14/2002.
Synonym	Not available.	Print Date	05/14/2002.
Trade name	Not available.	Responsible Name	Product Stewardship
Material Uses	Industrial applications	In Case of Emergency	CHEMTREC (800) 424-9300
Manufacturer	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
DISTILLATES, PETROLEUM, SOLVENT-REFINED HEAVY PARAFFINIC	64741-88-4	25-30	ACGIH (United States). TWA: 5 mg/m ³ Form: Mist OSHA (United States). TWA: 5 mg/m ³ Form: Mist ACGIH (United States). STEL: 10 mg/m ³ Form: Mist
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	64742-52-5	55-60	ACGIH (United States). TWA: 5 mg/m ³ Form: Mist OSHA (United States). TWA: 5 mg/m ³ Form: Mist ACGIH (United States). STEL: 10 mg/m ³ Form: Mist

Section 3. Hazards Identification

Physical State and Appearance	Paste. Characteristic. Odor (Slight.) Red. Brown. Paste.
Emergency Overview	CAUTION! MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Avoid contact of spilled material and runoff with soil and surface waterways. Do not ingest.
Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Potential Acute Health Effects	Eyes Moderately irritating to the eyes. Skin Moderately irritating to the skin. May cause sensitization by skin contact. Inhalation Moderately irritating to the respiratory system. Ingestion Ingestion may cause gastrointestinal irritation and diarrhea. Not available.

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999-10486-0503

Potential Chronic Health Effects	CARCINOGENIC EFFECTS: No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA). MUTAGENIC EFFECTS: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen. TERATOGENIC EFFECTS: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.
Medical Conditions Aggravated by Overexposure:	Repeated or prolonged exposure is not known to aggravate medical condition.
Overexposure /Signs/Symptoms	Not available.
See Toxicological Information (section 11)	

Section 4. First Aid Measures

Eye Contact	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.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	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.
Notes to Physician	Not available.

Section 5. Fire Fighting Measures

Flammability of the Product	May be combustible at high temperature.
Autoignition Temperature	Not available.
Flash Points	Not available.
Flammable Limits	Not available.
Products of Combustion	Potential combustion products are oxides of carbon and sulfur, molybdenum, phosphorous and zinc.
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of open flames, sparks and static discharge, of shocks.
Explosion Hazards in Presence of Various Substances	Non-explosive in presence of open flames, sparks and static discharge, of shocks.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet. Cool closed containers exposed to fire with water.
Protective Clothing (Fire)	Be sure to use an approved/certified respirator or equivalent.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

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Section 6. Accidental Release Measures

Small Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Large Spill and Leak	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 prolonged or repeated contact with skin. Wash thoroughly after handling. Avoid contact of spilled material and runoff with soil and surface waterways. Do not ingest.

Keep container tightly closed. Keep container in a cool, well-ventilated area. Avoid contact with strong oxidizers, excessive heat, sparks or open flame. Empty containers may contain harmful, 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 8. Exposure Controls, Personal Protection

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection

Eyes Safety glasses.

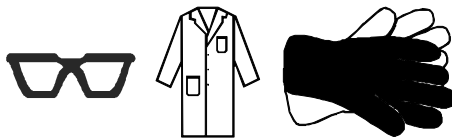
Body Synthetic apron.

Wear appropriate protective clothing to prevent skin contact.

Respiratory Respiratory protection is not required for the use of this product. Wear appropriate respirator when ventilation is inadequate.

Hands Impervious gloves.

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

DISTILLATES, PETROLEUM, SOLVENT-REFINED HEAVY PARAFFINIC

Exposure Limits

ACGIH (United States).

TWA: 5 mg/m³ Form: Mist **OSHA (United States).**

TWA: 5 mg/m³ Form: Mist **ACGIH (United States).**

STEL: 10 mg/m³ Form: Mist

DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC

ACGIH (United States).

TWA: 5 mg/m³ Form: Mist **OSHA (United States).**

TWA: 5 mg/m³ Form: Mist **ACGIH (United States).**

STEL: 10 mg/m³ Form: Mist

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Paste.	Odor	Characteristic. Odor (Slight.)
Boiling/Condensation Point	Not available.	Taste	Not available.
Melting/Freezing Point	Not available.	Color	Red. Brown. Paste.
pH Concentrate	Not applicable.		
pH Dilution % and Value	Not applicable.		
Critical Temperature	Not available.		
Specific Gravity	0.886 (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	Avoid excessive heat.
Incompatibility with Various Substances	Strong oxidizing agents.
Hazardous Decomposition Products	carbon oxides (CO, CO ₂), sulfur oxides (SO ₂ , SO ₃ ...), Some metallic oxides.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	

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CARCINOGENIC EFFECTS: No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA).

MUTAGENIC EFFECTS: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen.

TERATOGENIC EFFECTS: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.

DEVELOPMENTAL TOXICITY: Not available.

Other Toxic Effects on Humans Hazardous in case of skin contact (irritant, sensitizer), of eye contact (irritant), of inhalation (lung irritant).

Special Remarks on Toxicity to Animals Not available.

Special Remarks No additional remark.

Special Remarks on Other Toxic Effects on Humans Not available.

Section 12. Ecological Information

Ecotoxicity Not available.

BOD and COD Not available.

Biodegradable/OECD Not available.

Mobility Not available.

Products of Degradation These products are carbon oxides (CO, CO₂) and water, phosphates. Some metallic oxides.

Toxicity of the Products of Biodegradation Not available.

Special Remarks on the Products of Biodegradation Not available.

Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations. Keep out of waterways. Dispose of according to all federal, state and local applicable regulations.

RCRA Waste Code(s) USED OIL

Waste Stream Not available.

Consult your local or regional authorities.

Section 14. Transport Information

DOT Classification Not a DOT controlled material (United States).

Not regulated.

Marine Pollutant Not pollutant.

Special Provisions for Transport Petroleum oil, not regulated in containers less than 3500 gallons.

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ADR/RID Classification Not determined.

IMO/IMDG Classification Not determined.

ICAO/IATA Classification Not determined.

Section 15. Regulatory Information

U.S. Federal Regulations

SARA 302/304 emergency planning and notification: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: OPTIMOL LONGTIME PD 2: immediate health hazard.

SARA 313 toxic chemical notification and release reporting: No products were found.

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: No products were found.

Inventory Lists

TSCA 8(b) inventory: All components of this product are listed on (or meet the exemption requirements of) the applicable inventory list.

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: All components of this product are listed on (or meet the exemption requirements of) the applicable inventory list.

Section 16. Other Information**Label Requirements**

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.

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 Product Stewardship on 05/14/2002.

Printed 05/14/2002.

CHEMTREC (800) 424-9300

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.