



# Material Safety Data Sheet

## Section 1. Chemical Product and Company Identification

<b>Common Name</b>	<b>CASTROL LUBECON SERIES I/M LUBRICANT</b>	<b>Code</b>	69510-AM
<b>Supplier</b>	CASTROL INDUSTRIAL NORTH AMERICA INC. 1001 WEST 31ST STREET DOWNERS GROVE, IL 60515-1280 TEL.: 1 - 630-241-4000 (USA)	<b>Validation Date</b>	10/10/2003
<b>Synonym</b>	Not available.	<b>Print Date</b>	10/10/2003
<b>Trade name</b>	Not available.	<b>Responsible Name</b>	Product Stewardship
<b>Material Uses</b>	Industrial applications	<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
DISTILLATES, PETROLEUM, HYDROTREATED LIGHT	64742-47-8	70-75	<b>ACGIH (United States).</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Mist <b>OSHA (United States).</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Mist
DISTILLATES, PETROLEUM, SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0	20-25	<b>ACGIH (United States).</b> STEL: 10 mg/m <sup>3</sup> 15 minute(s). Form: Mist <b>ACGIH (United States).</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Mist <b>OSHA (United States).</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Mist <b>ACGIH (United States).</b> STEL: 10 mg/m <sup>3</sup> 15 minute(s). Form: Mist

## Section 3. Hazards Identification

<b>Physical state / Appearance</b>	Liquid. Petroleum Odor Grey. Color
<b>Emergency Overview</b>	<b>WARNING!</b> COMBUSTIBLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. ASPIRATION HAZARD. CAUSES EYE AND SKIN IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION.

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Combustible liquid and vapor. Vapor may cause flash fire. Keep away from heat, open flame and sparks. Aspiration hazard if swallowed- can enter lungs and cause damage. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

**Routes of Entry** Skin Contact. Eye contact. Inhalation. Ingestion.

**Potential Acute Health Effects**

*Eyes* Causes eye irritation.

*Skin* Causes skin irritation.

*Inhalation* Vapor: Solution may cause irritation of mouth, throat, and esophagus. High vapor concentrations can cause headaches, dizziness, drowsiness, and nausea, and may lead to unconsciousness. Vapor: Prolonged repeated exposure may cause chemical pneumonitis.

*Ingestion* Aspiration hazard if swallowed- can enter lungs and cause damage. Ingestion may cause gastrointestinal irritation and diarrhea.

No additional remark.

**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 International Agency for Research on Cancer (IARC).  
**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.

**Over-exposure 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. Cover the irritated skin with an emollient. Remove 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** If swallowed, do NOT induce vomiting. Get medical attention. Aspiration hazard if swallowed- can enter lungs and cause damage. Loosen tight clothing such as a collar, tie, belt or waistband. Never give anything by mouth to an unconscious person.

**Notes to Physician** Not available.

**Section 5. Fire Fighting Measures**

**Flammability of the Product** Combustible liquid and vapor.

**Auto-ignition temperature** Not available.

**Flash Point** Closed cup: >61.111°C (142°F). (Tagliabue.)

**Flammable Limits** Not available.

<b>Products of Combustion</b>	carbon oxides (CO, CO <sub>2</sub> )
<b>Fire Hazards in Presence of Various Substances</b>	Flammable in presence of open flames, sparks and static discharge, of heat.
<b>Explosion Hazards in Presence of Various Substances</b>	Slightly explosive in presence of open flames, sparks and static discharge, of shocks, of heat.
<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. Cool containers with flooding amounts of water from as far a distance as possible.
<b>Protective Clothing (Fire)</b>	First move people out of line-of-sight of the scene and away from windows. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. When controlling fire before involvement of explosives, fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Fire-fighters' protective clothing will provide limited protection. <b>DO NOT FIGHT FIRE WHEN IT REACHES MATERIAL.</b> Withdraw from fire and let it burn.
<b>Special Remarks on Fire Hazards</b>	Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back.
<b>Special Remarks on Explosion Hazards</b>	Runoff to sewer may create fire or explosion hazard.

**Section 6. Accidental Release Measures**

<b>Small Spill and Leak</b>	For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. Do not allow to enter drains or watercourses. Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5). Dispose of according to all federal, state and local applicable regulations.
<b>Large Spill and Leak</b>	Immediately contact emergency personnel. If emergency personnel are unavailable, contain spilled material. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.

**Section 7. Handling and Storage**

Avoid contact with eyes, skin and clothing. Avoid breathing vapors or spray mists. Do not ingest. Aspiration hazard if swallowed- can enter lungs and cause damage. If ingested do not induce vomiting. Wash thoroughly after handling. Keep away from heat, sparks and flame. Keep container closed. Use with adequate ventilation. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

Store in a segregated, approved and labeled area. Keep container tightly closed and sealed until ready for use. 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 and Personal Protection**

**Engineering Controls** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable.

**Personal Protection**

**Eyes** Safety glasses with side shields or chemical goggles.

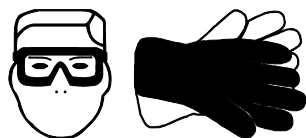
**Body** Wear appropriate protective clothing to prevent skin contact.

**Respiratory** A respirator is not needed under normal and intended conditions of product use. If ventilation is inadequate, use a NIOSH certified respirator with an organic vapor cartridge and P95 particulate filter.

**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,  
HYDROTREATED LIGHT

**Exposure Limits**

**ACGIH (United States).**

TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Mist

**OSHA (United States).**

TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Mist

**ACGIH (United States).**

STEL: 10 mg/m<sup>3</sup> 15 minute(s). Form: Mist

DISTILLATES, PETROLEUM,  
SOLVENT-DEWAXED HEAVY PARAFFINIC

**ACGIH (United States).**

TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Mist

**OSHA (United States).**

TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Mist

**ACGIH (United States).**

STEL: 10 mg/m<sup>3</sup> 15 minute(s). Form: Mist

Consult local authorities for acceptable exposure limits.

**Section 9. Physical and Chemical Properties**

**Physical state / Appearance** Liquid.

**Odor** Petroleum Odor

**Boiling/Condensation Point** Not available.

**Taste** Not available.

**Melting/Freezing Point** Not available.

**Color** Grey. Color

**pH ( Concentration )** Not applicable.

**pH Dilution % and Value** Not applicable

Critical Temperature	Not available.		
Specific Gravity	0.811 (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	Kinematic (40C): 4 to 7 cSt		
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	Reactive with oxidizing agents.
Hazardous Decomposition Products	carbon oxides (CO, CO <sub>2</sub> )
Hazardous Polymerization	Will not occur.

**Section 11. Toxicological Information**

Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	<b>CARCINOGENIC EFFECTS</b> : No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or International Agency for Research on Cancer (IARC). <b>MUTAGENIC EFFECTS</b> : No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen. <b>TERATOGENIC EFFECTS</b> : No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic. <b>DEVELOPMENTAL TOXICITY</b> : Not available.
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation (lung irritant). Aspiration hazard if swallowed- can enter lungs and cause damage. High vapor concentrations can cause headaches, dizziness, drowsiness, and nausea, and may lead to unconsciousness.
Special Remarks on Toxicity to Animals	Based on animal studies, Contains material which may cause damage to the following organs: liver, kidneys, central nervous system (CNS).
Special Remarks on Chronic Effects on Humans	No additional remark.
Special Remarks on Other Toxic Effects on Humans	No additional remark.

**Section 12. Ecological Information**

Ecotoxicity Not available.

BOD and COD Not available.

Biodegradable/OECD Not available.

Mobility Not available.

Products of Degradation carbon oxides (CO, CO<sub>2</sub>)

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) D001

Waste Stream Not available.

Consult your local or regional authorities.

**Section 14. Transport Information**

DOT Classification Combustible liquid.

PETROLEUM DISTILLATES, N.O.S.(Contains Petroleum Naphtha), Combustible liquid, UN1268, PG III

Marine Pollutant Not pollutant.

Special Provisions for Transport  DOT: Not regulated in containers less than 119 gallons.

Not regulated.

ADR/RID Classification Not determined.

IMO/IMDG Classification - Not regulated.

ICAO/IATA Classification Not regulated.

**Section 15. Regulatory Information**

U.S. Federal Regulations TSCA 8(a) PAIR: POLYETHYLENE GLYCOL OCTAPHENYL ETHER

SARA 302 emergency planning notification: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: CASTROL LUBECON SERIES I/M LUBRICANT: fire, 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: WARNING! This product contains trace amounts of the following chemicals which the State of California has found to cause cancer, birth defects or other reproductive harm.: ETHYLENE OXIDE, DIOXANE.

**Inventory Lists**

TSCA 8(b) inventory: In compliance.  
 CEPA DSL: In compliance.  
 Australia (NICNAS): In compliance.  
 Korea (TCCL): In compliance.  
 Philippines (RA6969): In compliance.  
 MITI: Not determined.  
 EINECS: Not listed.  
 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**

COMBUSTIBLE LIQUID AND VAPOR.  
 VAPOR MAY CAUSE FLASH FIRE.  
 ASPIRATION HAZARD.  
 CAUSES EYE AND SKIN IRRITATION.  
 MAY CAUSE RESPIRATORY TRACT IRRITATION.

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

Health	1
Fire Hazard	2
Reactivity	0
Personal Protection	B

**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.

Validated by Product Stewardship on 10/10/2003.

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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.*