

Drop C-12



Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Common Name	LUBECON SERIES I/M LUBRICANT	Code	69510-AM
Supplier	CASTROL INDUSTRIAL NORTH AMERICA INC. 1001 WEST 31ST STREET DOWNERS GROVE, IL 60515-1280 Product Information: 830 241-4000	Validation Date	06/04/2002
Synonym	Not available.	Print Date	06/04/2002
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, HYDROTREATED HEAVY PARAFFINIC	64742-54-7	20-25	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
SOLVENT NAPHTHA, PETROLEUM, MEDIUM ALIPH.	64742-88-7	70-75	ACGIH (United States). TWA: 5 mg/m ³ OSHA (United States). TWA: 5 mg/m ³

Section 3. Hazards Identification

Physical State and Appearance	Liquid.
Petroleum Odor	
Gray. Color	
Emergency Overview	<p>WARNING!</p> <p>COMBUSTIBLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. ASPIRATION HAZARD. MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.</p> <p>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.</p>
Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Potential Acute Health Effects	<p><i>Eyes</i> Moderately irritating to the eyes.</p> <p><i>Skin</i> Moderately irritating to the skin.</p> <p><i>Inhalation</i> Moderately irritating to the respiratory system.</p> <p><i>Ingestion</i> Aspiration hazard if swallowed- can enter lungs and cause damage. Ingestion may cause gastrointestinal irritation and diarrhea.</p> <p>No additional remark.</p>
Continued on Next Page	

LUBECON SERIES IIM LUBRICANT

Page: 217

Potential Chronic Health Effects	<p>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).</p> <p>MUTAGENIC EFFECTS: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen.</p> <p>TERATOGENIC EFFECTS: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.</p>
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. 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. Never give anything by mouth to an unconscious person. Aspiration hazard if swallowed- can enter lungs and cause damage. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention.
Notes to Physician	Not available.

Section 5. Fire Fighting Measures

Flammability of the Product	Combustible liquid and vapor.
Autoignition Temperature	Not available.
Flash Points	OPEN CUP: 51.111°C (124°F) (Cleveland.).
Flammable Limits	Not available.
Products of Combustion	carbon oxides (CO, CO2)
Fire Hazards in Presence of Various Substances	Not available.
Explosion Hazards in Presence of Various Substances	Slightly explosive in presence of open flames, sparks and static discharge, of shocks, of heat.
Fire Fighting Media and Instructions	<p>SMALL FIRE: Use DRY chemical powder.</p> <p>LARGE FIRE: Use water spray, fog or foam. Do not use water jet.</p> <p>Cool containers with flooding amounts of water from as far a distance as possible.</p>
Protective Clothing (Fire)	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, firefighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Firefighters' protective clothing will provide limited protection. DO NOT FIGHT FIRE WHEN IT REACHES MATERIAL. Withdraw from fire and let it burn.
Special Remarks on Fire Hazards	Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back.
Special Remarks on Explosion Hazards	Runoff to sewer may create fire or explosion hazard.

Continued on Next Page.

LUBECON SERIES IIM LUBRICANT

Page: 3/7

Section 6. Accidental Release Measures

Small Spill and Leak	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.
Large Spill and Leak	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, 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* Splash goggles.*Body* Synthetic apron.

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	Exposure Limits
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY PARAFFINIC	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
SOLVENT NAPHTHA, PETROLEUM, MEDIUM ALIPH.	ACGIH (United States), TWA: 5 mg/m ³ OSHA (United States), TWA: 5 mg/m ³

Continued on Next Page

LUBECON SERIES IIM LUBRICANT

Page: 4/7

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Petroleum Odor
Boiling/Condensation Point	Not available.	Taste	Not available.
Melting/Freezing Point	Not available.	Color	Grey. Color
pH Concentrate	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	<7 cSt at 40C		
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, CO2)
Hazardous Polymerization	Will not occur.

Continued on Next Page

LUBECON SERIES IIM LUBRICANT

Page: 517

Section 11. Toxicological Information

Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	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. DEVELOPMENTAL TOXICITY: 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. Repeated or prolonged exposure to the substance can produce damage to hearing impairment/change
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). CONTAINS MATERIAL WHICH MAY CAUSE CANCER BASED ON ANIMAL DATA. (skin)
Special Remarks	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, CO2)
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.	

Continued on Next Page

LUBECON SERIES I/M LUBRICANT

Page: 6/7

Section 14. Transport Information

DOT Classification	Combustible Liquid.	
	PETROLEUM DISTILLATES, N.O.S., 3, UN1268, III	
Marine Pollutant	Not pollutant.	
Special Provisions for Transport	Not available.	
ADR/RID Classification	Not determined.	
IMO/IMDG Classification	Not determined.	
ICAO/IATA Classification	Not determined.	

Section 15. Regulatory Information

U.S. Federal Regulations	<p>TSCA 8(a) PAIR: POLYETHYLENE GLYCOL OCTAPHENYL ETHER TSCA 8(d) H and S data reporting: POLYETHYLENE GLYCOL OCTAPHENYL ETHER; 1996; ETHYLENE OXIDE; 1982 SARA 302/304 emergency planning and notification: ETHYLENE OXIDE SARA 311/312 MSDS distribution - chemical inventory - hazard identification: LUBECON SERIES I/M LUBRICANT: fire, immediate health hazard. SARA 313 toxic chemical notification and release reporting: No products were found.</p> <p>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.</p>
State Regulations	<p>No products were found.</p> <p>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.</p>
Inventory Lists	<p>TSCA 8(b) Inventory: All components of this product are listed on (or meet the exemption requirements of) the applicable inventory list.</p> <p>CEPA DSL: All components of this product are listed on (or meet the exemption requirements of) the applicable inventory list.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>EINECS: One or more of the materials contained in this product may not appear on the applicable inventory</p>


Continued on Next Page

LUBECON SERIES IIM LUBRICANT

Page: 7/7

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. MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.										
Hazardous Material Information System (U.S.A.)	<table border="1"><tr><td>Flammable</td><td>2</td></tr><tr><td>Corrosive</td><td>2</td></tr><tr><td>Reactivity</td><td>0</td></tr><tr><td>Personal Protection</td><td>C</td></tr></table>	Flammable	2	Corrosive	2	Reactivity	0	Personal Protection	C	National Fire Protection Association (U.S.A.)	
Flammable	2										
Corrosive	2										
Reactivity	0										
Personal Protection	C										
References	Not available.										
Other Special Considerations	<p>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.</p> <p>This product is a mixture and is NOT listed in the TSCA Inventory. The individual ingredients in the product are listed in the TSCA Inventory.</p>										
Validated by Product Stewardship on 06/04/2002.		Printed 06/04/2002.									
CHEMTREC (800) 424-9300											
Notice to Reader <i>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.</i>											

