


Material Safety Data Sheet



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Rev. L
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 <p>INSTRUCTIONS</p>	<p>This Data Sheet contains important information. READ AND KEEP FOR REFERENCE.</p>
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1.0 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: ISO Pump Oil

Chemical Name: Synthetic Base Stocks and Additives

Manufacturer / Supplier:

Graco Inc.
P.O. Box 1441
88 11th Ave. NE
Minneapolis, MN 55413-1441

Part Number(s): 217374, 218656, 204559

Use: Lubricant used in wet-cup application pumping plural component materials.

Other uses (names): Gear reducer oil, gear lubricant oil

Emergency Information

Health Emergency (RMPC): (303)- 623-5716

Chemical Spills (Chemtrec): (800)- 424-9300

SECTION 2 HAZARDS IDENTIFICATION

EU CLASSIFICATION: Does not contain any dangerous substances according to the criteria of the EC (Council Directive 88/379/EEC)

EU LABEL: Not applicable

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Clear amber fluid.

IMMEDIATE CONCERNS:

- Causes eye irritation.
- May cause skin irritation.
- Lung aspiration hazard.

POTENTIAL HEALTH EFFECTS

EYES: May cause significant irritation to the eyes.

SKIN: May cause significant irritation to the skin.

INGESTION: May cause significant irritation to the digestive tract.

INHALATION: May cause significant irritation to the lungs, upper respiratory tract, and nose.

OVEREXPOSURE SYMPTOMS

EYES: Redness and possible itching and tearing of the eyes.

SKIN: Redness and possible burning of the skin.

INGESTION: Possible nausea, vomiting, and/or stomach cramps.

INHALATION: Coughing, burning, tightness of chest and/or shortness of breath.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	%	CAS NUMBER	EINECS NUMBER
Severely hydrotreated light naphthenic petroleum oil	>85	8042-47-5	232-455-8
Proprietary additives	<10	Mixture	UCVB

SECTION 4 FIRST AID MEASURES

EYE CONTACT: Flush eyes with large amounts of water for two to three minutes. Remove any contact lenses and continue flushing for fifteen minutes. If irritation persists, get medical attention.

SKIN CONTACT: Flush exposed areas with plenty of soap and water. Remove contaminated clothing, including shoes, and launder before reuse.

INGESTION: Do NOT induce vomiting. If victim is conscious, give milk or water to dilute stomach contents. Keep warm and quiet. Get prompt medical attention. Do not attempt to give anything by mouth to an unconscious person.

INHALATION: Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. If cough or other symptoms develop, seek medical attention.

SECTION 5 FIRE FIGHTING MEASURES

NFPA CODES: HEALTH – 1
FLAMMABILITY – 1
REACTIVITY – 0
SPECIAL – Not applicable.

FLASHPOINT: 190°C (374°F) (COC).

FLAMMABLE LIMITS: UEL 7.0% LEL 0.9%

AUTOIGNITION TEMPERATURE: Not determined.

GENERAL HAZARD: Evacuate personnel upwind of fire to avoid inhalation of irritating and/or harmful fumes and smoke.

EXTINGUISHING MEDIA: Chemical type foam, carbon dioxide, dry chemical, water fog.

HAZARDOUS COMBUSTION PRODUCTS: Fumes, smoke, carbon dioxide, carbon monoxide (toxic), oxides of sulfur (toxic) and hydrogen sulfide (toxic and explosive).

FIRE FIGHTING PROCEDURES: Use water spray to cool fire exposed surfaces and to protect personnel. Shut off 'fuel' to fire. Use fire extinguishing materials listed above to extinguish fire.

SPECIAL PRECAUTIONS: Avoid spraying water directly into large containers due to danger of boilover.

FIRE FIGHTING EQUIPMENT: Respiratory and eye protection are required for fire fighting personnel. Full protective equipment (Bunker Gear) and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of an SCBA may not be required.

STATIC DISCHARGE SENSITIVITY: Not determined.

IMPACT SENSITIVITY: Material is not impact sensitive.

NOTE: For small containers of material, it should be considered if there will be less damage by allowing the material to burn to exhaustion rather than fighting the fire and risk causing environmental contamination and other problems.

SECTION 6 ACCIDENTAL RELEASE MEASURES

LAND SPILL: Wearing the appropriate personal protective equipment designated in SECTION 8, move the container, close or cap valves and/or block or plug hole leaking container and transfer to another container if safe to do so. Contain spilled liquid with sand or earth. Recover by pumping (use explosion proof equipment) or with a suitable absorbent. If liquid is too viscous for pumping, scrape up with shovels or pails and place in suitable containers for recycle or disposal. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

WATER SPILL: Warn other shipping. Notify port or relevant authority and keep public away. Shut off source if possible to do so without hazard. Confine if possible using absorbent booms or other suitable floating materials. Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies sinking and/or suitable dispersants may be used in non-confined waters. Consult an expert on disposal of any recovered material and ensure conformity to local disposal regulations.

GENERAL PROCEDURES: Eliminate ignition sources, if possible, without causing unreasonable risk to people or the environment. Remove containers of strong oxidizers from the release area.

RELEASE NOTES: If spill could potentially enter any waterway, including intermittent dry creeks, contact the local authorities. If in the U.S., contact the U.S. Coast Guard National Response Center toll free at 800-424-8802.

In case of accident or road spill contact:
ChemTrec in U.S.A. at 800-424-9300.
CANUTEC in Canada at 613-996-6666.
ChemTrec, other countries, at +1 202 483 7616.

ADDITIONAL INFORMATION: See SECTION 13 for disposal information and SECTION 15 for regulatory requirements. Large and small spills may have a broad definition depending on the user's handling system. Therefore, the spill category must be defined at the point of release by technically qualified personnel.

SECTION 7 HANDLING AND STORAGE

HANDLING: Use appropriate personal protective equipment as specified in SECTION 8. Handle in a well ventilated area. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices.

STORAGE: Store in unopened containers under cool, dry conditions. Do not store with, or close to oxidizers. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. This material is not considered a static accumulator but use proper bonding and/or grounding procedures.

ADDITIONAL INFORMATION: Do not pressurize, cut, heat or weld containers. Empty product containers may contain product residue. Do not reuse empty containers without commercial cleaning or reconditioning.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS FOR COMPONENTS:

	OSHA TWA	NIOSH TWA	ACGIH TWA	CANADA TWA
Hydrotreated light distillates (petroleum)	5 mg/m ³ (oil mist)	5 mg/m ³ (oil mist)	5 mg/m ³ (oil mist)	5 mg/m ³ (oil mist)
Proprietary materials	5 mg/m ³ (oil mist)	5 mg/m ³ (oil mist)	5 mg/m ³ (oil mist)	5 mg/m ³ (oil mist)

NL = Not Listed

Comment: Exposure limits are for oil mist in general.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid.

ODOR: Mild Sulfur odor.

APPEARANCE: Clear amber fluid.

pH: Not applicable.

VAPOR PRESSURE: Not determined.

VAPOR DENSITY: Greater than air.

BOILING POINT: Not determined

FREEZING / MELTING POINT: Not determined

SOLUBILITY IN WATER: Negligible.

EVAPORATION RATE (n-Bu Acetate=1): Negligible.

RELATIVE DENSITY: 0.869 at 15.6°C (60.0°F).

VISCOSITY: 44.9 cSt at 100°C (212°F), 449.5 cSt at 40°C (104°F).

MOLECULAR WEIGHT: Not applicable (mixture).

DMSO EXTRACT (Mineral oil only), IP-346: <3% wt.

SECTION 10 STABILITY AND REACTIVITY

STABLE: Yes.

HAZARDOUS POLYMERIZATION: No.

CONDITIONS TO AVOID: Heat.

MATERIALS TO AVOID: Strong oxidizing agents.

HAZARDOUS POLYMERIZATION: No.

HAZARDOUS DECOMPOSITION PRODUCTS: Fumes, smoke, carbon dioxide, carbon monoxide (toxic), oxides of sulfur (toxic) and hydrogen sulfide (toxic and explosive).

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE

INHALATION: Negligible hazard at ambient or recommended blending temperature. High vapor / aerosol concentrations (greater than approximately 700 ppm, attainable at elevated temperatures well

above ambient) are irritating to the eyes and the respiratory tract, and may cause headache, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

SKIN CONTACT: Low order of toxicity. Frequent or prolonged contact may cause mild skin discomfort. Skin contact may aggravate an existing dermatitis condition.

EYE CONTACT: Will cause slight eye discomfort, but will not injure eye tissue.

INGESTION: Minimal toxicity. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possibly death.

TARGET ORGANS: Eyes, skin, gastrointestinal tract, respiratory system.

CARCINOGENICITY

IARC: Not listed.

NTP: Not listed.

OSHA: Not listed.

MUTAGENICITY: Not available.

REPRODUCTIVE EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

SECTION 12 ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: May cause adverse environmental impact if material reaches waterways.

ECOTOXICOLOGICAL INFORMATION: Low acute toxicity to aquatic organisms is expected.

ENVIRONMENTAL MOBILITY: This material contains materials similar to mineral oils, and as such will float on water and migrate from water to land.

ENVIRONMENTAL DEGRADABILITY: This material is not expected to be "readily" biodegradable.

SECTION 13 DISPOSAL CONSIDERATIONS

The following information only applies to the product as supplied and are general recommendations. Combination with other materials may alter how the product can be disposed of. If in doubt, contact the local authorities regarding proper disposal methods.

DISPOSAL METHOD: This product is considered an oil. Product is not suitable for disposal by landfill, sewers, drains, or natural streams and rivers. Product will produce ash if burned, and may be incinerated at approved incineration sites. If material has been mixed with gasoline, dispose of the material as waste gasoline. Always dispose of product at supervised incineration or other appropriate waste disposal sites according to current applicable laws and regulations.

EMPTY CONTAINERS: Empty drums should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with EC, national and local regulations.

Plastic containers should be locally recycled after being drained of contents.

SECTION 14 TRANSPORT INFORMATION

SEA (IMO / IMDG)

PROPER SHIPPING NAME: Not regulated for sea transport.

LABEL: Not applicable.

AIR (ICAO / IATA)

PROPER SHIPPING NAME: Not regulated for air transport.

LABEL: Not applicable.

SECTION 15 REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (Superfund Amendments and Reauthorization Act)

311 / 312 HAZARD CATEGORIES:

ACUTE: YES.

FIRE: NO.

PRESSURE: NO.

REACTIVITY: NO.

313 REPORTABLE INGREDIENTS:

This material contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of the emergency planning and Community Right-to-Know Act of 1986 and 40 CFR 372:

Zinc Dithiophosphate CAS# 68649-42-3 1-5%

CERCLA (Comprehensive Response, Compensation, and Liability Act)

LISTED COMPONENTS: No components listed.

REPORTABLE QUANTITY (RQ): Not applicable.

TSCA (Toxic Substance Control Act)

TSCA REGULATORY: All intentional ingredients are listed on the TSCA Inventory.

NATIONAL RESPONSE CENTER: U.S. Coast Guard National Center telephone number is 1-800-424-8802.

CANADA

WHMIS (Worker Hazardous Materials Information System): This product is not a WHMIS controlled product.

EUROPEAN COMMUNITY

EU CLASSIFICATION: Does not contain any dangerous substances according to the criteria of the EC (Council Directive 88/379/EEC and amendments)

EU LABEL SYMBOL: Not applicable

EUROPEAN REGULATORY: All intentional ingredients are listed on the European's EINECS Inventory.

GOVERNING DIRECTIVE: European Community Council Directive 88/379/EEC and amendments.

SECTION 16 OTHER INFORMATION

NFPA:	HEALTH – 1 FLAMMABILITY – 1 REACTIVITY – 0 SPECIAL – Not applicable	HMIS:	HEALTH – 1 FLAMMABILITY – 1 REACTIVITY – 0 PROTECTION – B
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Prepared By	Graco, Inc.
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This Material Safety Data Sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we have received from sources outside our company. We believe that information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this Data Sheet may not be adequate for all individuals and/or situations. It is the users' obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.

NOTES: NA = Not Applicable; NE = Not Established; UN = Unavailable

All written and visual data contained in this document reflects the latest product information available at the time of publication.

Graco reserves the right to make changes at any time without notice.

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