

Material Safety Data Sheet



307-766

Rev. E

Supersedes Rev. D



This Data Sheet contains important information.
READ AND KEEP FOR REFERENCE.

INSTRUCTIONS

First choice when
quality counts.™

1.0 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Hydraulic Fluid

Chemical Name: Industrial oils

Manufacturer / Supplier

Graco Inc.
P.O. Box 1441
60 11th Ave. NE
Minneapolis, MN 55440-1441

Emergency Health Information

Graco: (303) 623-5716

Chemtrec: (800) 424-9300

(Chemtrec is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals)

Part Number(s): 169-236 (5 gal); 207-428 (1 gal)

Use: Hydraulic fluid used in hydraulic motors and hydraulic power supplies

HMIS/NFPA

Health	0
Flammability	1
Reactivity	0

2.0 COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS#	% by Weight	Hazard Data
Refined Petroleum Oil(s)	Mixture of 6741-88-4 and 6741-89-5	> 98	Oral LD50 (rat): >5 g/kg Dermal and Eye: Mild irritant Inhalation LC50/4H (rat): >5000 mg/m ³ Hazard Data based upon similar components
Anti-oxidant/Anti-wear Agent (may contain Zinc Diakylidithiophosphate)	Mixture	< 1	Oral LD50 (rat): >2 to >5 g/kg aspiration hazard Dermal LD50 (rabbit): >2 k/kg, Mild to moderate irritant Eye: Mild to severe irritant Inhalation: Non to moderate irritant
Pour Point Depressant	Mixture	< 1	Oral LD50 (rat): 5 to >10 g/kg Dermal LD50 (rabbit): 3 tp >10 g/kg Eye: Mild to moderate irritant

For exposure data, see **8.0, Exposure Controls / Personal Protection.**

3.0 HAZARDS IDENTIFICATION

Per OSHA Hazard Communication Standard [29 CFR 1910.1200]

Product does not meet classification criteria of WHMIS and is not a controlled product.

Potential Health Effects:

Eye Contact	May cause burning, tearing, and redness.
Skin Contact	Prolonged or repeated skin contact may cause redness, burning, and dermatitis.
Skin Injection	Injection under the skin, into muscle or into the bloodstream is a medical emergency. Seek medical attention immediately.
Inhalation	Exposure to mists, or prolonged or repeated exposure to fumes or vapors that may be generated if this material is heated, may cause irritation of nose and throat. Elevated mist concentrations well above applicable workplace exposure levels may cause severe lung damage.
Ingestion	If swallowed, there is a slight risk of aspirating this material into the lungs. Upon ingestion, gastrointestinal discomfort, diarrhea, and headache may occur.

Major Route of Entry: Inhalation of incidental mists or vapors

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

Hazard Rating: least = 0, slight = 1, moderate = 2, high = 3, extreme = 4

GRACO INC. P.O. BOX 1441 MINNEAPOLIS, MN 55440-1441

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4.0 FIRST AID MEASURES

Eye	If irritation or redness develops, move the victim to fresh air. Flush eyes with clean water. Seek medical attention if irritation persists.
Skin	Wipe material from skin and remove contaminated clothing. Wash affected area(s) thoroughly using mild soap and water and, if necessary, a waterless skin cleanser. Seek medical attention if irritation develops or persists.
Inhalation	If irritation of nose or throat develops, move away from source of exposure and into fresh air. Seek medical attention if irritation persists.
Ingestion	Contact physician or local poison control center immediately.

5.0 FIREFIGHTING MEASURES

Flashpoint	210°C (410°F) (COC)
Flammable Limits (% by volume in air)	Lower: NE Upper: NE
Autoignition Temperature	UN
Flammability Classification	Not Flammable; This material will burn, but will not readily ignite.
Extinguishing Media	Dry chemical, CO ² , water spray, foam, sand, or earth. Water and foam may cause frothing.
Unusual Fire and Explosion Hazards	Heat from fire may cause containers to explode. Water may cause frothing. Material may be ignited by sparks or flames.
Firefighting Equipment	Water spray may minimize vapors and cool containers exposed to heat and flame. Avoid spreading burning liquid with water used for cooling purposes.
Hazardous Combustion Products	Oxides or carbon, nitrogen, sulfur

6.0 ACCIDENTAL RELEASE MEASURES

Collect leaking liquid in sealable containers. Absorb spilled liquid in sand or inert absorbant and place into containers for later disposal. See Section 12 for disposal information.

7.0 HANDLING AND STORAGE

Handling	Avoid generating oil mists while handling. Avoid prolonged or repeated skin contact. Wash thoroughly while handling. Do not wear oil-soaked clothing or shoes.
Storage	Store below 120° F in a dry location. Keep away from strong oxidizing agents.

CAUTION: Empty containers may contain combustible product residues which could ignite with explosive force. Consult appropriate federal, state, and local authorities before reusing, reconditioning, reclaiming, recycling, or disposing of empty containers and/or waste residues of this product.

8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye	Chemical safety goggles.
Skin	Wear gloves impermeable to petroleum hydrocarbons to prevent skin contact and possible irritation.
Inhalation	If TLV is exceeded or for symptoms of overexposure wear a NIOSH-approved respirator. Vapor or mist concentrations may exceed applicable workplace exposure levels at elevated temperatures or in enclosed areas.
Engineering Controls	If current ventilation practices are not adequate in maintaining airborne concentrations below the established exposure limits, additional ventilation or exhaust systems may be required.

Exposure Data:

<u>Component</u>	<u>CAS#</u>	<u>Exposure Limits</u>
Oil mist, if generated (mineral)	64742-65-0	5 mg/m ³ (1,2) 10 mg/m ³ (3)

NOTES: (1) ACGIH TLV (TWA); (2) OSHA PEL (TWA); (3) ACGIH STEL; (4) OSHA STEL; (5) MFR./SUPPLIER TLV; c = ceiling value

9.0 CHEMICAL AND PHYSICAL PROPERTIES

Evaporation Rate (n-butyl acetate =1)	< 1
Appearance and Odor	Light amber liquid; Mild petroleum odor
pH	NA
Vapor Pressure (mm Hg)	1 x 10 ⁻⁵ to 2 x 10 ⁻⁴
Vapor Density (Air = 1)	> 1
Boiling Point	316 °C (600 °F)
Melting Point	NA
Solubility in Water	Negligible
Specific Gravity (Water = 1)	0.88-0.89
Percent Volatiles by Volume	Negligible

10.0 STABILITY AND REACTIVITY

Stability	Stable
Conditions to Avoid	None identified
Materials to Avoid	Product may react violently with strong oxidants, acids, and caustics.
Hazardous Decomposition Products (Thermal unless otherwise specified)	CO ₂ (CO with incomplete combustion), and trace oxides of phosphorous, sulfur, and zinc.
Hazardous Polymerization	Hazardous polymerization is not expected to occur.

11.0 TOXICOLOGICAL INFORMATION

Summary: Generally a low order of toxicity.

12.0 DISPOSAL INFORMATION

It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal. Determine compliance status with all applicable requirements prior to disposal. Contact the RCRA/Superfund Hotline at (800) 424-9346 or your regional US EPA office for guidance concerning case specific disposal issues.

13.0 TRANSPORTATION INFORMATION

U.S. Dept. of Transportation:

Proper Shipping Name	Petroleum Lubricating Oil
Hazard Class	Non hazardous
Hazard Identification No.	None assigned
Packaging Group	None assigned
Placard	None
Compatibility Category	Group 33
CHRIS Code	OLB

International Information:

Canadian Transportation of Dangerous Goods Shipping Name	Not regulated
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14.0 REGULATORY INFORMATION

SARA Title III Section 313	This product is not known to contain any components in concentrations above <i>de minimis</i> levels that are listed as toxic chemicals in 40 CFR Part 372 pursuant to the requirements of Section 313 SARA.
SARA Title III Section 311/312	This product meets none of the criteria for the hazard categories defined in 40 CFR Part 370 as established by Sections 311 and 312 of SARA as follows; Immediate (acute) Health Hazard, Delayed (chronic) Health Hazard, Fire Hazard, Sudden Release of Pressure Hazard, and Reactive Hazard.
SARA Title III Section 302	This product is not known to contain any components in concentrations greater than one percent that are listed as Extremely Hazardous Substances in 40 CFR Part 355 pursuant to the requirements of Section 302(a) of SARA
Clean Water Act (CWA)	Under the CWA, discharges of crude oil and petroleum products to surface water without proper Federal and State permits must be reported immediately to the National Response Center at (800) 424-8802.
CERCLA Section 102	As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance.
California Proposition 65	This material contains no components that are known to the State of California to be carcinogenic or a reproductive hazard.

Food Contact Status:

USDA	UN
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15.0 OTHER INFORMATION

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.

*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.*

Sales Offices: Minneapolis, Detroit, Los Angeles
Foreign Offices: Belgium, Canada, England, Korea, France, Germany, Hong Kong, Japan

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GRACO INC. P.O. BOX 1441 MINNEAPOLIS, MN 55440-1441

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