


Material Safety Data Sheet



MSD041
Rev. D
Updated: 09-Aug

 <p>INSTRUCTIONS</p>	<p>This Data Sheet contains important information. READ AND KEEP FOR REFERENCE.</p>
--	--

1.0 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical Name: Synthetic Lubricating Oil
Manufacturer / Supplier

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

Part Number(s): 288278

Contact Information

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

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

E-mail: customerservice@graco.com

Use: Lubricant for E-Flo electric circulation pump gear reducer

NSF REGISTRATION NUMBER: 132666

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Polyalphaolefin
CAS NUMBER: 68037-01-4
EC NUMBER (EINECS): 500-183-1
PERCENTAGE: 55-60

COMPONENT: Polybutene
CAS NUMBER: 9003-29-6
EC NUMBER (EINECS): 500-004-7
PERCENTAGE: 35-40

COMPONENT: Benzenepropanoic acid
CAS NUMBER: 41484-35-9
EC NUMBER (EINECS): 255-392-8
PERCENTAGE: 0-1

COMPONENT: Alkylated diphenylamine
CAS NUMBER: 68411-46-1
EC NUMBER (EINECS): 270-128-1
PERCENTAGE: 0-1

COMPONENT: Amines
CAS NUMBER: 80939-62-4
EC NUMBER (EINECS): 279-632-6
PERCENTAGE: 0-1

COMPONENT: Triphenyl phosphorothionate
CAS NUMBER: 597-82-0
EC NUMBER (EINECS): 209-909-9
PERCENTAGE: 0-1

COMPONENT: Propyl paraben
CAS NUMBER: 94-13-3
EC NUMBER (EINECS): 202-307-7
PERCENTAGE: 0-1

COMPONENT: Polyisobutylene
CAS NUMBER: 9003-27-4
EC NUMBER (EINECS): not assigned
PERCENTAGE: 0-1

COMPONENT: Alkyl phosphate
CAS NUMBER: NA
EC NUMBER (EINECS): NA
PERCENTAGE: 0-1

NOTE: The IP 346 value of the mineral oil is less than 3%

SECTION 3 HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

INHALATION:

SHORT TERM EXPOSURE: Irritation

LONG TERM EXPOSURE: Lung damage

SKIN CONTACT:

SHORT TERM EXPOSURE: Irritation

LONG TERM EXPOSURE: Irritation, skin disorders

EYE CONTACT:

SHORT TERM EXPOSURE: Irritation

LONG TERM EXPOSURE: No information available

INGESTION:

SHORT TERM EXPOSURE: Diarrhea, difficulty breathing

LONG TERM EXPOSURE: no information on significant adverse effects

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS):

Health – 1

Flammability – 1

Reactivity – 0

Not a Controlled Product under (WHMIS) – Canada Special Protection: See Section 8

SECTION 4 FIRST AID MEASURES

INHALATION: Vapor pressure is very low and inhalation at room temperature is not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician.

SKIN CONTACT: Remove any contaminated clothing and wash with soap and warm water. If injected by high pressure under skin, regardless of the appearance or its size, contact a physician IMMEDIATELY. Delay may cause loss of affected part of body.

EYE CONTACT: Flush eyes with clear water for 15 minutes or until irritation subsides. If irritation persists, consult a physician.

INGESTION: If ingested, call a physician immediately. Do not induce vomiting.

SECTION 5 FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Slight fire hazard

EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide or water spray (fog)

FIRE FIGHTING: Cool exposed containers with water. Use air-supplied breathing equipment for enclosed or confined spaces.

HAZARDOUS COMBUSTION PRODUCTS:

Thermal decomposition products or combustion: oxides of carbon, oxides of sulphur

SECTION 6 ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE: Recover liquid, wash remainder with suitable petroleum solvent or add absorbent. Keep petroleum products out of sewers and watercourses. Advise authorities if product has entered or may enter sewers and watercourses.

SECTION 7 HANDLING AND STORAGE

STORAGE: Store and handle in accordance with all current regulations and standards. Keep container tightly closed. Keep away from heat, sparks, and flame. See original container for storage recommendations. Keep separated from incompatible substances.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

White mineral oil:

MINERAL OIL MIST:

5 mg/m³ UK OES TWA

10mg/m³ UK OES STEL

VENTILATION: Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

EYE PROTECTION: Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

CLOTHING: Wear appropriate chemical resistant clothing.

GLOVES: Wear appropriate chemical resistant (nitrile) gloves.

RESPIRATOR: Consider the need for appropriate protective equipment, such as self-contained breathing apparatus, adequate masks and filters.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: liquid

APPEARANCE: clear

COLOUR: water-white

PHYSICAL FORM: oil

ODOR: odorless

BOILING POINT: >288 C

FREEZING POINT: Not available

FLASH POINT: 204 C (COC)

LOWER FLAMMABLE LIMIT: 0.9% by volume

UPPER FLAMMABLE LIMIT: 7.0% by volume

AUTO IGNITION: 257 C (COC)

VAPOUR PRESSURE: <0.01 mm Hg

VAPOR DENSITY (air=1): >5
SPECIFIC GRAVITY (water=1): 0.86
DENSITY: not available
WATER SOLUBILITY: negligible
pH: not available
VOLATILITY: not available
ODOR THRESHOLD: not available
EVAPORATION RATE: <0.01 (Butyl acetate=1)
VISCOSITY: 21 mm²/s @ 100 C
COEFFICIENT OF WATER/OIL DISTRIBUTION: not available

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressures
CONDITIONS TO AVOID: Avoid heat, flames, sparks and other sources of ignition. Avoid contact with strong oxidants like liquid chlorine, concentrated oxygen.
INCOMPATIBLES: Oxidising materials, chlorine
HAZARDOUS DECOMPOSITION:
Thermal decomposition products or combustion: oxides of carbon, oxides of sulphur
POLYMERISATION: Will not polymerise.

SECTION 11 TOXICOLOGICAL INFORMATION

Polyalphaolefin:

TOXICITY DATA:

Greater than 2,000 mg/kg LD50 oral-rat

Polybutene:

TOXICITY DATA:

Greater than 34,600 mg/kg LD50 oral-rat

Benzenepropanoic acid:

TOXICITY DATA:

Greater than 5,000 mg/kg LD50 oral-rat

Alkylated diphenylamine:

TOXICITY DATA:

Greater than 5,000 mg/kg LD50 oral-rat

Amines:

TOXICITY DATA:

Greater than 5,000 mg/kg LD50 oral-rat

Triphenyl phosphorothionate:

TOXICITY DATA:

Greater than 10,000 mg/kg LD50 oral-rat

Polyisobutylene:

TOXICITY DATA:

No data available

Propyl paraben:

TOXICITY DATA:

Greater than 8,000 mg/kg LD50 oral-rat

Alkyl phosphate:

TOXICITY DATA:

5,000 mg/kg LD50 oral-rat

SECTION 12 ECOLOGICAL INFORMATION

Not available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations

SECTION 14 TRANSPORT INFORMATION

LAND TRANSPORT ADR: No classification assigned.

LAND TRANSPORT RID: No classification assigned.

AIR TRANSPORT IATA: No classification assigned.

AIR TRANSPORT ICAO: No classification assigned.

MARITIME TRANSPORT IMDG: No classification assigned.

SECTION 15 REGULATORY INFORMATION

EUROPEAN REGULATIONS:

EC CLASSIFICATION (CALCULATED): Not classified as dangerous.

SECTION 16 OTHER INFORMATION

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.

Sales Offices: Minneapolis

International Offices: Belgium, Korea, Hong Kong, Japan

GBL P.O. BOX 1441 MINNEAPOLIS, MN 55440-1441

www.graco.com

PRINTED IN U.S.A.