

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name PMO-68

Other means of identification

Product code: 340492

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Lubricant.

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address

Klüber Lubrication NA LP
9010 County Road 2120
Tyler, Texas 75707
Phone: (903) 534-8021
Fax: (903) 581-4376

Emergency telephone number

Emergency Telephone CHEMTREC: 1-800-424-9300; INTERNATIONAL: (703) 527-3887

2. HAZARD IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

WHMIS 2015 Regulatory Status

This chemical is not considered hazardous by the Canadian Hazardous Products Regulations (WHMIS 2015).

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label Elements

EMERGENCY OVERVIEW

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Oil

Physical state Liquid

Odor Mild

Hazards not otherwise classified (HNOC)

Other information**3. COMPOSITION/INFORMATION ON INGREDIENTS**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Chemical name	CAS No.	Weight-%	Trade Secret
Mineral Oil	Proprietary	60 - 80%	*
1,2 Benzenedicarboxylic acid di-c9-c11 branched alkyl ester	68515-49-1	5 - 10%	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURESFirst aid measures

- Eye contact:** Flush eye with water for 15 minutes. If symptoms persist, call a physician.
- Skin contact:** Wash off immediately with soap and plenty of water.
- Inhalation:** In the case of inhalation of aerosol/mist consult a physician if necessary. Move to fresh air.
- Ingestion:** Do not induce vomiting without medical advice. Drink 1 or 2 glasses of water. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

Indication of any immediate medical attention and special treatment needed**5. FIRE-FIGHTING MEASURES**Suitable extinguishing media:

Carbon dioxide (CO₂). Dry chemical. Water spray mist or foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire, cool tanks with water spray.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Special protective equipment for firefighters:

In the event of fire, wear self-contained breathing apparatus. Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURESPersonal precautions, protective equipment and emergency procedures

Personal precautions: Contaminated surfaces will be extremely slippery. Use personal protective equipment. Remove all sources of ignition.

Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Always replace cap after use. Handle in accordance with good industrial hygiene and safety practice. Spilling onto the container's outside will make container slippery. Avoid contact with eyes and skin.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers dry and tightly closed to avoid moisture absorption and contamination

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters**Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA (TWA mg/m ³):	IDLH:
Mineral Oil -	5 mg/m ³ (oil mist)	5 mg/m ³ (oil mist)	

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Respiratory protection: In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection: Nitrile rubber

Eye protection: Safety glasses

Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect

General Hygiene Considerations Avoid contact with skin, eyes and clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance Oil

Odor Mild

Color Clear

Odor threshold No information available

Property **Values** **Remarks • Method**

Melting point/freezing point No information available

pH Not classified
Boiling point / boiling range No information available

Flash point > 204 °C / Cleveland Open Cup

	400 °F		
Flammability (solid, gas)	No information available	Evaporation rate	No information available
Upper flammability limit:	No information available	Flammability Limit in Air Lower	No information available
Vapor pressure	No information available	flammability limit:	
Specific Gravity	< 0.9	Vapor density	No information available
Solubility in other solvents	No information available	Water solubility	Insoluble in water
Autoignition temperature	No information available	Partition coefficient	No information available
Kinematic viscosity	68 cSt @ 40 °C	Decomposition temperature	No information available
Explosive properties		Dynamic viscosity	No information available
Oxidizing properties	No information available		

Other information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity

Not classified

Chemical stability

Stability	Stable under normal conditions
Possibility of Hazardous Reactions	
Possibility of Hazardous Reactions	None under normal use conditions.
Hazardous polymerization	Hazardous polymerization does not occur.

Conditions to avoid

Conditions to avoid	No special storage conditions required
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Hazardous Decomposition Products

Hazardous Decomposition Products	Incomplete combustion may produce small amounts of carbon oxides
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Incompatible materials

Incompatible materials	Oxidising agents
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11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Product does not present an acute toxicity hazard based on known or supplied information
Eye contact	May cause slight irritation.
Skin contact	Substance may cause slight skin irritation.
Inhalation	Avoid breathing vapors or mists.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Mineral Oil -	> 5 g/kg	> 2 g/kg	= 3900 mg/m ³ (Rat) 4 h
1,2 Benzenedicarboxylic acid di-c9-c11 branched alkyl ester - 68515-49-1	> 60000 mg/kg (Rat)	= 16000 mg/kg (Rabbit)	-

Information on toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No sensitization responses were observed.
Mutagenic effects:	Did not show mutagenic or teratogenic effects in animal experiments.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Reproductive toxicity	This product does not contain any known or suspected reproductive hazards.
STOT - single exposure	None under normal use conditions.
STOT - repeated exposure	None under normal use conditions.
Aspiration hazard	Not classified.

Numerical measures of toxicity - Product Information

Unknown acute toxicity 97.6216 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	10955 mg/kg
ATEmix (dermal)	45602 mg/kg
ATEmix (inhalation-dust/mist)	1583.3 mg/l
ATEmix (inhalation-vapor)	5456.9 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

No known hazards to the aquatic environment.

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Mineral Oil -	
Algae/aquatic plants	-
Fish	5000: 96 h Oncorhynchus mykiss mg/L LC50
Crustacea	1000: 48 h Daphnia magna mg/L EC50
1,2 Benzenedicarboxylic acid di-c9-c11 branched alkyl ester - 68515-49-1	
Algae/aquatic plants	1.3: 96 h Pseudokirchneriella subcapitata mg/L EC50
Fish	0.55: 96 h Lepomis macrochirus mg/L LC50 static 0.62: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.66: 96 h Pimephales promelas mg/L LC50 static 1: 96 h Oncorhynchus mykiss mg/L LC50 static 1: 96 h Pimephales promelas mg/L LC50 flow-through
Crustacea	0.18: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

The product is insoluble and floats on water.

Chemical name	Partition coefficient
1,2 Benzenedicarboxylic acid di-c9-c11 branched alkyl ester - 68515-49-1	8.8

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container.

14. TRANSPORT INFORMATION

DOT	Not Regulated by any means of transportation
TDG	Not Regulated
IATA-DGR	Not Regulated
IMO / IMDG	Not Regulated

15. REGULATORY INFORMATION

International Inventories

TSCA:	Listed in TSCA
DSL:	All of the components in this product are listed in DSL
EINECS/ELINCS	This product complies with EINECS/ELINCS
CHINA:	This product does not comply with China IECSC.
KECL:	This product does not comply with Korea KECL.
PICCS:	This product does not comply with Philippines PICCS.
AICS:	All the constituents of this material are listed on the Australian AICS

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

Canada HPR Statement

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS

contains all the information required by the Hazardous Products Regulations (WHMIS 2015).

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

State Regulations (RTK)

California Proposition 65

This product contains chemicals known to the state of California to cause birth defects or other reproductive harm

Chemical name	California Proposition 65 CRT List - Hazard Designation:
1,2 Benzenedicarboxylic acid di-c9-c11 branched alkyl ester	Listed: April 20, 2007 Developmental Toxicity

U.S. State Right-to-Know Regulations

Chemical name	NJRTK:	MARTK:	PARTK:
Mineral Oil -	Substance no. 1437 Listed. Substance no. 4004 Listed.	Listed.	Not Listed
1,2 Benzenedicarboxylic acid di-c9-c11 branched alkyl ester - 68515-49-1	Not Listed	Not Listed	Listed

U.S. EPA Label Information

EPA Pesticide Registration Number Not classified

16. OTHER INFORMATION

NFPA:

Health: 1

Flammability: 1

Instability: 0

NFPA/HMIS * for Carc, Muta, Tera, Specific Organ *

HMIS health rating:

Health: 1

Flammability: 1

Physical hazards: 0

Personal protection: B

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Revision Date 13-Feb-2019

Revision Note

Reason for revision: None

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet