

REFRIGERATION OIL LM 46

Section 1. Identification

REFRIGERATION OIL LM 46 Material name:

5471 **Product Code**

SDS 5471-1 SDS no.

Relevant identified uses of the substance or mixture and uses advised against

Refrigeration compressor lubricant. Use of the substance/

For specific application advice see appropriate Technical Data Sheet or consult mixture

our company representative

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Section 2. Hazard(s) identification

Not classified Classification of the

substance or mixture

GHS label elements:

No hazard pictogram is used **Hazard Pictograms:** No signal word is used Signal word:

Not applicable **Hazard statement:**

Precautionary statement:

Prevention: Not applicable Not applicable Response: Not applicable Storage: Not applicable Disposal:

Other hazards which do

Not applicable not result in classification

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Section 3. Composition and ingredient information

Substance/ mixture Mixture

Components	CAS No.	Percent
Hydrotreated heavy paraffinic	64742-54-7	96-99%
Performance Additives	Mixture	1-4%

Section 4. First aid measures

Description of necessary first aid measures

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15

minutes. Eyelids should be held away from the eyeball to ensure through

rinsing. Check and remove any contact lenses. Get medical attention

Skin contact No specific first aid measures are required. As a precaution, remove clothing

and shoes if contaminated. To remove the material from skin, use soap and

water.

Inhalation If inhaled, remove the person to fresh air. Get medical attention if symptoms

Ingestion Do not induce vomiting. As a precaution, get medical advice.

Symptoms caused by

exposure

Not available

Special Treatment No special treatment

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing medialn case of fire, use Foams, dry chemicals, CO2, nylons and powders

unsuitable extinguishing Do not use water

media

Protection Equipment Heat resistant suit and gloves, Self-contained breathing apparatus

Special Risks None

Special Measures Not required

Combustion Products CO2, H2O, CO (in defect of air), nitrogen, sulfur and phosphorus oxides

Section 6. Accidental release measure

Precautions for the Hazard of physical fouling to coasts, soils, etc. due to low solubility and high

Environment viscosity of the oils. Avoid the material entering water intakes

Clean-up Method Treat as an accidental oil spill or leak; avoid dispersion of the material with

mechanical barriers. Remove with physical or chemical treatment

Personal Precautions Avoid prolonged contact with contaminated clothes or with the product

Personal Protection Gloves and goggles or face shield

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Section 7. Handling and storage

Precautions for safe

handling

General Precautions Avoid prolonged contact and inhalation of mists and vapors

Specific conditions Safety goggles and gloves should be used

Precautions for safe

storage

Other

Storage condition Containers properly labeled and sealed, placed in cool and

Incompatible materials Strong oxidants

Dangerous practices Not available

Section 8. Exposure control/ Personal protection

Control parameters:

Exposure Level Not available

Inhalation Low vapor pressures: The product is slightly volatile at room temperature and

does not present special risks. In presence of heated oils, wear protective

masks to avoid vapor inhalation

Skin Gloves

Eye Safety goggles

Showers and eye-washers in the working area

Specific Hygiene measure Good work practices to minimize exposure and adoption of good Personal hygien

Exposure Level TLV (typical base oil) = 0.016 PPM at 20°C (saturated vapor Concentration);

TLV/TWA (ACGIH) = 5mg/m3 (oil mist); TLV/STEL (ACGIH) = 10mg/m3 (oil mist)

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:

Boiling Point:

Physical state: Liquid

Color: Light Amber Specific Gravity (at 15°C): 0.886 (typical)

Flash point: 188 °C

Explosive Properties: Not available Oxidizing Properties: Not available

Water Solubility: Insoluble (100 PPM max. H₂O)

Not available

Solubility:Organic solventsVapor Density:17.7 (air=1)Vapor Pressure:Not availableViscosity at 100°C:6.1 cSt (typical)Pour Point:-36 °C (typical)

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Section 10. Stability and reactivity

Reactivity Stable under recommended transport storage conditions

Chemical stability Stable under normal temperature pressures

Polymerization Risk Not available

Materials to Avoid Strong oxidants react with oils and organic materials

Hazardous Decomposition

products

Not available

Condition to Avoid Exposure to open flames

Section 11. Toxicological information

Routes of Exposure Contact with skin, eyes and inhalation. Ingestion is not frequent.

Acute and chronic Effects No malignant acute effects are known. Chronic effects due to repeated

exposures are irritation, dermatitis and acne

Carcinogenicity Not available Reproductive Toxicity No evidences

Madical Conditions which Respir

Medical Conditions which

increase Hazard to Exposure Respiratory tract deficiencies and dermatological problems

Section 12. Ecological information

Pollutant Potential:

Persistence and Degradability

the material is oily and viscous and floats on water. It presents a high physical fouling potential, mainly in sea-spills; by contact, destroys small aquatic organisms and makes living difficult for upper organisms, not allowing the sunlight to reach underlying marine ecosystems, affecting its normal development.

Mobility/Bioaccumulative

Potential

it does not present bioaccumulative problems in living organisms or incidence in the tropic food chain, although it may cause long-term adverse effects in the

aquatic environment, due to its high physical fouling potential

Eco toxicological Effect: Dangerous for aquatic life in high concentrations (spills).

Section 13. Disposal consideration

Disposal Methods (surplus) Recycling and recovery of base oils when possible

Disposal (waste) Only in specific prepared and controlled areas. Avoid releasing oils to sewers

because they can destroy water treatment plant Microorganisms. Do not

attempt to clean containers since residue is difficult to remove; dispose in a safe

way.

Handling (waste) Labeled and sealed containers. Avoid direct contact with waste oils.

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Section 14. Transport information

Special Precautions Stable at room temperature and during transport. Store in cool well ventilated

areas.

UN Number Not regulated

Road (ADR)/ Rail (RID)

/River (ADNR)

Not regulated

Airline (IATA-ACAO) Not regulated

Marine (IMO-IMDG) Not regulated

Special precautions for

user

Not available

Section 15. Regulatory information

Regulation CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds)

This material does not contain any chemicals subject to the reporting requirements of

SARA 302 and 40 CFR 372.

CERCLA/SARA - Section 311/312 (Title III Hazard

Categories)

Acute Health: No
Chronic Health: No
Fire Hazard: No

Pressure Hazard: No Reactive Hazard: No

CERCLA/SARA - Section 313 This material does not contain any chemicals subject to the reporting

and 40 CFR 372

requirements of SARA 313 and 40 CFR 372

EPA (CERCLA) Reportable

Quantity (in pounds)

This material does not contain any chemicals with CERCLA Reportable

Quantities

California Proposition 65 This material does not contain any chemicals which are known to the State of

California to cause cancer, birth defects or other reproductive harm at

concentrations that trigger the warning requirements of California Proposition

65

Canadian This product has been classified in accordance with the hazard criteria of the

Controlled Products Regulations (CPR) and the MSDS contains all the information required by the Regulations. WHMIS Hazard Class: None

National Chemical

Inventories

All components are either listed on the US TSCA Inventory, or are not regulated under TSCA. All components are either on the DSL, or are exempt from DSL

listing requirements

U.S. Export Control
Classification Number

EAR99

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Section 16. Other information

History:

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Previous Issue Date

Guide to Abbreviations CAS Chemical Abstracts Service

ACGIH American Conference of Governmental Industrial Hygienists

CASRN Chemical Abstracts Service Registry Number

CEILING Ceiling Limit (15 minutes)

CERCLA The Comprehensive Environmental Response, Compensation, and

Liability Act

EPA Environmental Protection Agency

IARC International Agency for Research on Cancer

LEL Lower Explosive Limit

NE Not Established

NFPA National Fire Protection Association

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit (OSHA)

SARA Superfund Amendments and Reauthorization Act

STEL Short Term Exposure Limit (15 minutes)

TLV Threshold Limit Value (ACGIH)
TWA Time Weighted Average (8 hours)

UEL Upper Explosive Limit

WHMIS Worker Hazardous Materials Information System (Canada)

Disclaimer of Expressed and implied Warranties

This 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. Such information is to the best of our knowledge and belief, accurate and reliable as of the date indicated. However no representation, warranty or guarantee is made as to its accuracy, reliability or completeness.

It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

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