



SAFETY DATA SHEET

According to CLASS Regulations 2013 (GHS3rd edition)

SECTION 1: IDENTIFICATION OF THE CHEMICAL AND OF THE SUPPLIER

1.1. Product identifier

Product code:

Product name: **LUBRICANT OIL SAE 20W-50 API CF/SF/SG**

Further Information: See chapter: 3

1.2. Relevant identified uses of the substance or mixture and uses advised

against identified uses

Lubricant oil in vehicle engine

Uses advised against

Uses other than stated above

1.3. Details of the supplier of the safety data sheet

Feoso Oil (Malaysia) Sdn. Bhd.
Lot 55710, Jalan Kenanga 1, Westport,
Pulau Indah, 42009 Port Klang,
Selangor, Malaysia.

Tel: +6 03 3102 1100

Fax: +6 03 3101 2441

1.4 Emergency telephone number

1) Feoso Oil (Malaysia) Sdn. Bhd +603 3102 1100

2) National Poison Center, Universiti Sains Malaysia,
11800 Penang,
Malaysia.

Office Hours:

1-800-88-8099 / +6 04-657 0099
(Monday-Friday: 8.10am-5.10pm)

After Office Hours:

+6 012-430 9499
(including weekends and public holidays)

SECTION 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. According to "CLASS Regulations 2013 (Globally Harmonized System of Classification and Labelling of Chemicals (GHS) 3rd Edition") :

Notclassified

This product is not classified as hazardous under CLASS Regulations 2013(GHS).

2.2. Label elements

Labelling according to CLASS Regulations 2013:

Hazard Pictograms

Not applicable

Signal word

Not applicable

Hazard statements

Not applicable

Precautionary statements

Not applicable

2.3. Other hazards

Used oil may contain harmful impurities. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

SECTION 3: COMPOSITION AND INFORMATION OF THE INGREDIENTS OF THE CHEMICAL

3.1 Substances

Not applicable

3.2 Mixtures

Blend of base oil and additives

Hazardous Components	Weight %	CAS No.	GHS Classification (components)
Phosphorodithioic acid, O,O-di-C1-C14-alkyl esters, zinc salts	0.5 to <3	CBI *	Skin sens. 1 ; H317 , EyeDmg.1 ; H318, Skin irrit. 2; H315,Aquatic Chronic 2; H411

Additives percentage not more than 3.99% in full blend.

Base oil with less than 3% DMSO extract as measured by IP-346.

* CBI : Confidential business information

Other ingredients are not listed due to non-hazardous nature or below hazardous cut-off values.

SECTION 4: FIRST-AID MEASURES

4.1. Description of first aid measures

Skin contact:

Wash off with soap and water. Remove and wash contaminated clothing before re-use.

Inhalation:

No treatment necessary under normal conditions of use.

Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Then, get medical treatment as soon as

possible.

Ingestion:

In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.

Protection of first-aiders:

Wear personal protective equipment.

4.2. Most important symptoms and effects, both acute and delayed

Eye damage or irritation. Skin irritation and sensitization.

4.3. Indication of immediate medical attention and special treatment needed

Treat symptomatically. For specialist advice physicians should contact the Poisons Information Service as in Section 1.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.

Extinguishing media which must not be used for safety reasons:

Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Combustion products may include the following: carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide), nitrogen oxides.

5.3. Advice for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

6.2. Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways or soil).

6.3. Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Absorb with an inert material e.g. sand, earth, vermiculite or diatomaceous earth and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.4. Reference to other sections

For personal protection see section 8. See also section 13 for disposal.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols.

Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. This material is a static accumulator.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for

use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

For containers or container linings, use mild steel or high density polyethylene.

Unsuitable materials: PVC

Storage Temperature: 0 to 60 degrees Celcius.

7.2. Specific end uses

See Section 1

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. Control parameters

OEL: oil mist, mineral - TWA (8 h): 5 mg/m³ – Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000 (Malaysia)

8.2. Exposure controls

TECHNICAL PRECAUTIONS: Avoid production and diffusion of mist and aerosol with utilization of localized ventilation or other required precautions. Adopt all required engineering precautions to avoid product emission to environment.

EYE PROTECTION: Chemical goggles and face shield in case of oil splashes.

PROTECTION FOR SKIN: Wear suitable protective clothing (for further information, refer to CEN-EN 14605); change it immediately in case of large contamination and wash it before subsequent use. Practice reasonable personal cleanliness.

PROTECTION FOR HANDS: Wear suitable gloves (i.e. neoprene, nitrile). Gloves should be changed when they show wear. The kind of gloves and the term of use must be decided from employer with regard to processing and to allow for DPI legislation and glove producer's indications. Wear gloves only with clean hands.

RESPIRATORY PROTECTION: None required under normal conditions of use. Use approved full face respirator with organic vapour filter cartridge if the recommended exposure limits are exceeded.

ENVIRONMENTAL EXPOSURE CONTROLS: Refer to technical precautions and also to sections 6.2, 6.3, 7.2, 12 and 13.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form:	liquid
Colour:	bright and clear
Odour:	petroleum - mild
Odour Threshold	No information available
Melting point (°C):	No information available
Boiling point (°C):	No information available
Flash point (°C):	>230
Evaporation rate:	No information available
Flammability:	No information available

Lower explosion limit:	Not applicable
Upper explosion limit:	Not applicable
Vapour pressure:	No information available
Relative vapour density:	No information available
Water solubility:	Insoluble
Partition coefficient: n-octanol/water:	No information available
Autoignition temperature (°C):	No information available
Decomposition temperature (°C):	No information available
Viscosity (mm²/s):	182 @ 40 °C (Kinematic)
Explosive properties:	No information available
Oxidising properties:	No information available
pH:	No information available
Relative density:	<0.88

9.2. Other information

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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

10.2. Chemical stability

Stable under recommended handling and storage conditions

10.3. Possibility of hazardous reactions

Reacts with strong oxidising agents.

10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Strong oxidising agents.

10.6. Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Skin contact

Prolonged or repeated skin contact cause irritation. LD50:> 2,000 mg/kg (rabbit).

Eye contact

Contact causes serious eye irritation.

Inhalation

Inhalation of mists and vapours generated at elevated temperatures may cause mild respiratory irritation.

Ingestion

Unlikely to cause harm if accidentally swallowed in small doses, though ingestion of large quantities may cause gastro-intestinal effects. LD50:>2,000mg/kg (rat).

Sensitisation

Skin sensitizer.

Carcinogenic effects

Based on available data, the classification criteria are not met.

Mutagenic effects

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT - repeated exposure

Based on available data, the classification criteria are not met.

STOT - single exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

This product is not classified as dangerous for the environment.

12.2. Persistence and degradability

Data on biodegradability of product are not available.

12.3. Bioaccumulative potential

No information available

12.4. Mobility in soil

No information available

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

Do not allow contact with soil, surface or ground water

SECTION 13: DISPOSAL INFORMATION

13.1. Waste treatment methods

Prevent contamination of soil, drains and surface waters. Do not discharge in sewers, tunnels or water courses. Dispose in accordance with local or national regulations via authorised person/licensed waste disposal contractor.

Waste from residues / unused products:

Dispose of in accordance with local regulations stated below.

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Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal.

Relevant regulation:

Dispose according to Environmental Quality (Scheduled Wastes) Regulations 2005 – Malaysia or other relevant regulation at the country of use.

SECTION 14: TRANSPORTATION INFORMATION

This product is not regulated under dangerous goods regulations.

14.1. UN-Number

UN Number: This product is not classified as a Dangerous Good by ADG, ADR, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class

Not applicable

14.4. Packing group

Not applicable

14.4.1. Further information for transport

IMDG (SEA)

UN No. (IMO/IMDG):	Not regulated
Proper shipping name (IMDG):	Not regulated
EMS no.:	Not applicable
Label (IMO/IMDG):	Not applicable
Hazard Label II (IMO/IMDG):	Not applicable

ADR/RID (LAND)

UN-No:	Not applicable
Proper shipping name:	Not regulated
Hazard Class:	Not applicable
Subsidiary Risk:	Not applicable
Packing group:	Not applicable
ADR/RID-Labels	Not applicable
Hazard Label II (ADR):	Not applicable

ICAO/IATA (AIR)

UN-No (IATA):	Not regulated
Proper shipping name (IATA):	Not regulated
Hazard Class (IATA):	Not applicable
Subsidiary Class (IATA):	Not applicable
Packing group (IATA):	Not applicable
Hazard Label:	Not applicable
Hazard Label II:	Not applicable

14.5. Environmental hazards:

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Not applicable

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

USECHH (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000 - Malaysia.
Occupational exposure of listed substance is listed on Section 8.

15.2. CLASS (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 – Malaysia.

This product is not classified as hazardous under this regulation.

15.3. Scheduled Waste Regulations 2005 – Malaysia.

This product should be classified as scheduled waste under this regulation.

Further Information:

Not available.

15.4. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this substance.

SECTION 16: OTHER INFORMATION

This safety data sheet has been prepared according to following regulations:

CLASS (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 specifically the related CLASS Industry Code of Practice.

General rule for classification and hazard communication of chemicals Safety Data Sheet for Chemical Products Content and Order of Sections Globally Harmonized System of Classification and Labelling of Chemicals (UN GHS).

Hazard statements related to individual components:

H315 -Causes skin irritation

H317 - May cause allergic skin reaction

H318 - Causes serious eye damage

H411 -Toxic to aquatic life with long lastingeffects

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