



SAFETY DATA SHEET
PRODUCT NAME : SEMI SYNTHETIC
SAE 10W40 API SN/CF

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Revision No : 0
Date : Sep.10, 2016

SECTION 1 IDENTIFICATION OF SUBSTANCES / PREPARATION AND COMPANY

PRODUCT DETAILS

Product Type : Lubricants Oil
Oil category : S e m i Synthetic
Use : Passenger Cars and Light Diesel Vehicles
Synonym :

COMPANY IDENTIFICATION

Supplier's Name : Recomtec Sdn Bhd (542692-U)
Supplier's Address : Lot 10449-Blok D, Jalan Kebun Nenas
Off Jalan Sg.Jati, Batu 4½ Kg. Jawa, 41000 Klang,
Selangor Darul Ehsan
Malaysia.
Emergency Tel. No. : 03-5161 0564
Fax No. : 03-5161 0472

CONTACT PERSON

Operation Division : Mr. Mohammad Rawi
Tel No : 03-5161 0564

SECTION 2 HAZARDS IDENTIFICATION

HEALTH HAZARDS

This product contained the component that cause irritation to eyes and skin

GHS Classification : NOT HAZARDOUS

GHS Label Elements
Symbols (s) : No symbol

Signal Words : No signal word

Hazard Statement : **PHYSICAL HAZARDS**
Not classified as a physical hazard under GHS criteria

HEALTH HAZARD

Not classified as a health hazard under GHS criteria

ENVIRONMENTAL HAZARDS

Not classified as an environmental hazard under GHS criteria



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GHS Precautionary Statements

Prevention : No precautionary phrases
Response : No precautionary phrases
Storage : No precautionary phrases
Disposal : No precautionary phrases

Other Hazards which do not : No classified as flammable but will burn
result in classification

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

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Preparation Description : Highly refined mineral oils and additives

Chemical Name	CAS No	Hazard Class	Hazard Statement	%WT
Zinc alkyl dithiophosphate	68411-46-1	Skin Corr, 2 Eye Dam, 1	H315,H318,H411	<9
Base Oil	64742-54-7	Skin Corr, 2 Eye Dam, 1	H302, H332	>91

UN No. : Not applicable

Additional Information : The highly refined mineral oil contain < 3% (W/W)
DMSO- extract, according to IP346

Refer to Section 16 for detail of H Phrases

SECTION 4 FIRST AID MEASURES

General Information : Not expected to be a health hazard when used under
normal conditions

Eye Contact : Flush eyes with plenty of water until irritation subsides. If
persistent irritation occurs, get immediate medical attention.

Skin contact : Remove contaminated clothing /shoes and wipe excess
from skin. Flush exposed area with water and follow by
washing with soap and water. If irritation occurs, get
medical attention promptly to prevent serious injury.



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- Inhalation : Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention.
- Ingestion : Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Get medical attention.
- Most Important Symptoms/ Effects, Acute & Delayed : Oil acne / folliculitis signs and symptoms may include formation black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and /or diarrhea.
- Immediate medical attention, Special treatment : Treat symptomatically

SECTION 5 FIRE FIGHTING MEASURES

- Specific hazards arising from Chemicals : Hazardous combustion products may include : A complex mixture of airborne solid and liquid particulates And gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.

FIRE FIGHTING INSTRUCTION AND EQUIPMENT

- SUITABLE EXTINGUISHING MEDIA : Foam, water spray or fog. Dry chemical powder, CO₂, Sand or earth may be used for small fires only.
- UNSUITABLE EXTINGUISHING MEDIA : Do not use water in a jet
- PROTECTIVE EQUIPMENT & PRECAUTIONS FOR FIRE FIGHTERS : Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet. See Section 13 for information on disposal. Observe the relevant local and international regulations.

- Personal Precaution, Protective Equipment and Emergency Procedures : Avoid contact with skin and eyes
- Environmental Precautions : Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains ditches or rivers by using sand, earth or other appropriate barriers.



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- Method and Material for Containment and clean up : Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a Barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.
- Additional Advice : Local authorities should be advised if significant Spillages cannot be contained.

SECTION 7 HANDLING AND STORAGE

- General Precautions : Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.
- Precautions for Safe Handling : Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/ or mists. When handling products In drums, safety footwear should be worn and proper Handling equipment should be used.
- Condition for Safe Storage : Keep container tightly closed and in a cool, well ventilated place. Use properly labeled and closeable containers.
Storage Temperature : 0 - 50°C / 32 - 122 °F.
- Recommended Materials : For containers or container linings, use mild steel or high density polyethylene.
- Unsuitable Materials : PVC
- Other Advice : Polyethylene containers should not be exposed to high temperature because of possible risk of distortion.



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SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

If the American Conference of Government Industrial Hygienists (ACGIH) value is provided on this document, it is provided for information only

Contains mineral oil and heat sensitive material. Under certain conditions (open heating and/or mechanical shear), The following component(s) with recognized or recommended OEL value may be released:

Hydrogen sulfide ; TWA: 10ppm. STEL: 15ppm, ACGIH (2002)

Mineral Oil Mist ; TWA: 5 mg/m³, STEL: 10 mg/m³, for oil mist, vapour excluded, ACGIH (2002)

Appropriate Engineering Controls : The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentration. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

Individual Protection Measures : Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Respiratory Protection : No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65°C (149 °F)]

Hand Protection : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US:F739) made from the following materials may provide suitable chemical protection; PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands.



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After using gloves, hands should be washed and dried thoroughly. Application on non-perfumed moisturizer is recommended.

- Eye Protection : Safety glasses. If potential for splash or mist exists, wear chemical goggles or full face shield.
- Protective Clothing : Skin protection not ordinarily required beyond standard issue work clothes.
- Thermal Hazard : Not applicable
- Monitoring Methods : Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace maybe required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.
- Environmental Exposure Control : Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Clear & Bright
- Odour : Slight hydrocarbon
- Odour threshold : Data not available
- pH : Not applicable
- Initial Boiling Point and Boiling range : >280°C / 536°F estimated value(s)
- Pour point : Typical - 40°C /
- Flash point : Typically > 200°C
- Upper / lower Flammability or Explosion limits : Typical 1-10 % (V) (based on mineral oil)
- Auto-ignition temperature : > 320°C / 608°F
- Vapour pressure : <0.5 Pa at 20°C/ 68°F (estimated value (s))
- Relative Density (water =1) : Typically >0.8700
- Density : Typically > 0.8600 @ 15 C
- Water solubility : Negligible
- Solubility in other solvent : Data not available
- n-octanol / water partition coefficient (log Pow) : > 6 (based on information on similar products)
- Kinematic Viscosity, @ 100°C) : 12.5 to 16.3 cSt
- Vapour density (air=1) : > 1 (estimated value (s))
- Evaporation (nBuAc=1) : Data not available
- Decomposition Temperature : Data not available
- Flammability : Data not available



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SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	:	Stable
Possibility of Hazardous reaction	:	Data not available
Conditions to Avoid	:	Extremes of temperature and direct sunlight.
Incompatible Materials	:	Strong Oxidising agents.
Hazardous decomposition product	:	Hazardous decomposition products are not expected to form during normal storage.

SECTION 11 TOXICOLOGICAL INFORMATION

Information on Toxicological effects

Basis for Assessment	:	Information given is based on data on the components and the toxicology of similar products.
Likely Routes of Exposure	:	Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.
Acute Oral Toxicity	:	Expected to be of low toxicity: LD50 > 5000 mg/kg, Rat
Acute Dermal Toxicity	:	Expected to be of low toxicity: LD50 > 5000 mg/kg, Rabbit
Acute Inhalation Toxicity	:	Not considered to be an inhalation hazard under normal conditions of use.
Skin Corrosion/Irritation	:	Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.
Serious Eye Damage/Irritation	:	Expected to be slightly irritating.
Respiratory Irritation	:	Inhalation of vapours or mists may cause irritation.
Respiratory or Skin Sensitisation	:	Not expected to be sensitizer
Aspiration Hazard	:	Not considered an aspiration hazard.
Germ Cell Mutagenicity	:	Not considered a mutagenic hazard.
Carcinogenicity	:	Product contains mineral oils of types shown to be non-carcinogenic in animal skin-painting studies. Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC). Other components are not known to be associated with carcinogenic effects.
Reproductive and Developmental Toxicity	:	Not expected to be hazard.
Specific target organ toxicity - single exposure	:	Not expected to be hazard.
Specific target organ toxicity - repeated exposure	:	Not expected to be hazard.
Additional information	:	Used oil may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to



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health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible. Continuous contact with use engine oils has caused skin cancer in animal test.

SECTION 12 ECOLOGICAL INFORMATION

Basis for Assessment	:	Ecotoxicological data have not been determined specifically for this product. Information given is based on knowledge of the components and the ecotoxicology of similar products.
Acute Toxicity	:	Poorly soluble mixture. May cause physical fouling of aquatic organisms. Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test to extract). Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1mg/l.
Microorganisms	:	Data not available
Mobility	:	Liquid under most environmental conditions. Floats on water. If it enter soil, it will adsorb to soil particles and will not be mobile.
Persistence/degradability	:	Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product may contains components that may persist in the environment.
Bioaccumulative Potential	:	Contains components with the potential to bioaccumulate.
Other Adverse Effects	:	Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

SECTION 13 DISPOSAL CONSIDERATIONS

Material Disposal	:	Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.
Container Disposal	:	Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.
Local Legislation	:	Disposal should be in accordance with applicable regional, national, and local laws and regulations.



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SECTION 14 TRANSPORT INFORMATION

LAND (ADR)

Petroleum Lubricating Oil; Not regulated as dangerous goods for transportation under ADR regulations.

RID

Petroleum Lubricating Oil; Not regulated as dangerous goods for transportation under RID regulations.

SEA – IMDG (PACKAGED GOODS AND BLCs)

Petroleum Lubricating Oil; Not regulated as dangerous goods for transport under IMDG Code

AIR (ICAO/IATA)

Petroleum Lubricating Oil; Not regulated as dangerous goods for transport under ICAO or IATA DGR

SECTION 15 REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

EC Classification	:	Not classified as dangerous under EC criteria
EC Symbols	:	No Hazard Symbol required
EC Risk Phrases	:	Not classified
EC Safety Phrases	:	Not classified

Chemical Inventory Status

EINECS	:	All components listed
TSCA	:	All components listed



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SECTION 16 OTHER INFORMATION

Hazard Statement

H 302	Harmful if swallowed
H 315	Cause skin irritation
H 318	Cause serious eye damage
H 322	Harmful if inhaled
H 411	Toxic to aquatic life with long lasting effects

MSDS Revision Number	:	1
MSDS Effective Date	:	10/9/2016
MSDS Regulation	:	The content and format of this safety data sheet is in accordance with DOSH Malaysia - Industry Code of Practice 2014
MSDS Distribution	:	The information in this document should be made available to all who may handle the product.

The information contained in this data sheet is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.