

**MATERIAL SAFETY DATA SHEET**

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Revised edition no : 01

P-522 MULTI USE LUBRICATING OIL

Effective Date: 30-6-2014

1 Identification of the Product and the company

Chemical Name : Multi Use Lubricating Oil
Type of product chemical family : N/A
Producer : TLC-KOYA CHEMICALS MANUFACTURING SDN BHD
No.22 & 23, Jalan Maju 1,
Cemerlang Industrial Estate,
81800 Ulu Tiram, Johor, Malaysia.
Tel: 607-8675798 Fax: 607-8675799
Website: www.koyachemicals.com Email: admin@koyachemicals.com

Emergency phone nr : See producer

2 Composition / Information on Ingredients

Substance Formal Name : Alkanes
Substance Chemical Family : Aliphatic Hydrocarbon

3 Hazards Identification

Human health hazards : Harmful-may cause lung damage if swallowed.
Safety hazards : Not classified as flammable but will burn.
Environmental hazards : No specific hazards.

4 First Aid Measures

Inhalation : Remove to fresh air. If rapid recovery does not occur, seek medical attention.
Skin : Wash skin with water using soap if available. Contaminated clothing must be removed as soon as possible. It must be laundered before reuse. If persistent irritation occurs seek medical attention.
Eye : Flush eye with water. If persistent irritation occurs, obtain medical attention.
Ingestion : DO NOT DELAY. Do not induce vomiting. Protect the airway if vomiting begins. Give nothing by mouth. OBTAIN MEDICAL ATTENTION IMMEDIATELY.
Advice to physicians : Treat symptomatically.

5 Fire Fighting Measures

Specific hazards : Combustion products may include carbon monoxide and unburnt hydrocarbons.
Extinguishing media : Foam, fog or water spray. Carbon dioxide, dry chemical powder, sand or earth may be used for small fires only.
Unsuitable extinguishing media : Do not use water in a jet. Use of Halon extinguishers should be avoided for environmental reasons.
Protective Equipment : Full protective clothing and self contained breathing apparatus.
Other information : Keep adjacent drums and tanks cool by spraying with water.

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6 Accidental Release Measures

Personal precautions	: Remove all possible sources of ignition in the surrounding area and evacuate all personnel. Do not breath vapour mists. Avoid contact with skin, eyes and clothing. Take off immediately all contaminated clothing.
Personal protection	: Wear protective clothing specified for normal operations.
Environmental precautions	: Prevent from entering into drains, ditches or rivers. Use appropriate containment to avoid environmental contamination.
Spillage	: Shovel up and place in a labelled salable container for subsequent safe disposal. Do not diperse using water.
Clean-up methods	: Small : Absorb or contain liquid with sand, earth or spill control material. Large : Transfer to a labelled, salable container for product recovery of safe disposal. Otherwise treat as for spillage.
Other information	: Local authorities should be advised if significant cannot be contained. Observe all relevant local regulations.

7 Handling and Storage

Handling	: Avoid contact with eyes, skin and clothes.
Handling temperature	: Between -10 and 45°C.
Storage	: Locate tanks away from sources of ignition. Do not store in unsuitable, unlabelled or incorrectly labelled containers. Keep container tightly closed in a dry, well-ventilated place away from sources of ignition.
Storage temperature	: Between -20 and 45°C.
Recommended material	: Use mild steel, stainless steel for containers.
Unsuitable material	: Natural or butyl rubbers.
Other information	: Ensure that all local regul;ations regarding handling and storage facilities are followed. Never siphon by mouth.

8 Exposure Controls / Personal Protection

Occupational exposure	: None established.
Respiratory protection	: Not normally required.
Hand protection	: PVC or nitrile rubber gloves if splashed are likely to occur.
Eye protection	: Monogoggles if splashes are likely to occur.
Body protection	: Wear overalls to minimize contamination of personal clothing. Launder overalls and undergarments regularly. Safety shoes or boots - chemical resistant.

9 Physical and Chemical Properties

Physical state	: Liquid at ambient temperature.
Colour	: Colourless
Odour	: Odourless.
Range boiling point	: 330°C - 430°C
Density	: 0.825-0.830kg/m ³ at 15/4°C
Kinematic viscosity	: 13.5-16.5 MM ² /S at 40°C
Flash point	: 150-220°C
Auto-Ignition temperature	: >250°C
Explosive properties	: In use, may form flammable/explosive vapour-air mixtures
Solubility in water	: Insoluble

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10 Stability / Reactivity

Stability : Stable
Conditions to avoid : Heat, flames and sparks
Materials to avoid : Strong oxidizing agents.
Hazardous decomposition : None known.

11 Toxicological Information

Basis for assessment : Toxicological data have not been determined specifically for this product. Information given is based on a knowledge of the toxicology of similar products.
Acute toxicity - oral : LD50 expected to be greater than 2000 mg/kg
Eye irritation : Not irritating
Skin irritation : Not irritating
Respiratory irritation : Not irritating
Skin sensitization : Not expected to be a skin sensitizer.

12 Ecological Information

Basis for assessment : Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the ecotoxicology of similar products.
Mobility : Floats on water.
Persistence/degradability : Inherently biodegradable.
Bioaccumulation : Data not available.
Ecotoxicity : Data not available.
Sewage treatment : Data not available.

13 Disposal Considerations

Precautions : See Section 8.
Waste disposal : Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations. Preferably to recognised collector or contractor should be established beforehand. Do not dispose into the environment, in drains or in water course.
Product disposal : Recycle if possible, otherwise incineration.
Container disposal : Drain container thoroughly. After draining, vent in a safe place away from sparks and fire.

14 Transport Information

Not classified as dangerous for conveyance under UN,IMO,ADR/RID and IATA/ICAO codes.
Regulatory Information : EC Classification : Harmful
EC Symbol : Xn
EC Risk Phrases : R65 Harmful; may cause lung damage if swallowed.
EC Safety Phrases : S62 if swallowed, do not induce vomiting : seek medical attention immediately.
Eines (EC) : 292-447-5

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16 Other information

Further information : None
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N/A - Not Applicable N/D - Not Determined

All recommendations for the use of our products, whether given by us in writing, orally, or to be implied from data or test results obtained by us, are based on the current state of our knowledge at the time such recommendations are made. When additional information is obtained, these recommendations may be updated. They may also be influenced by circumstances outside our control. Notwithstanding such recommendations, the user is responsible to determine that the product as supplied by us, is suitable for the process or purpose he intends to use it. The user of the product is solely for compliance with all laws and regulation applying to the use of the product. Since we cannot control the application, use or processing of the products, we do not accept responsibility therefore. The user shall ensure that the intended use of the products will not infringe in any party's intellectual property rights.