

# MATERIAL SAFETY DATA SHEET

## TLO MACHINE OIL 10, 20, 30, 40, 50

### I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name:</b> TLO Machine Oil SAE 10,20,30, 40, 50
<b>Manufacturer Name:</b> Catur Prima Cahaya, PT
<b>Address:</b> Pangkalan 1 B, Bantar Gebang- Bekasi. 17151
<b>Telephone Number:</b> 62-021-82610611
<b>Emergency Telephone Number:</b> 62-021-82610612
<b>Fax Number:</b> 62-021-82610613

### II. COMPOSITION, INFORMATION ON INGREDIENT

<b>1. Product Identification:</b>		
Chemical Family: Petroleum Hydrocarbons		
Chemical Formula: Mixture		
Trade Name/Synonym: Not assigned		
<b>2. Component:</b>		
Ingredients	CAS Number	% by vol.
Light Paraffinic Distillate	64742-55-8	3.5 ~ 29.5
Combined Extract	64742-10-5	70.0 ~ 96.0

### III. HAZARDS IDENTIFICATION

<b>The Most Important Hazardous Effects:</b>
<b>1. Adverse Human Health Effects:</b> (For Long Term Exposure)
Inhalation : no information is available.
Skin Contact : irritation, tumors.
Eye Contact : irritation.
Ingestion : no information is available.
<b>2. Environmental Effects:</b> no information is available.
<b>3. Physical and Chemical Hazards:</b> Mist or vapors can produce at elevated temperatures.
<b>4. Specific Hazards:</b> skin tumors.

**Main Symptoms:**

Inhalation : irritation, nausea, headache.

Skin Contact : irritation.

Eye Contact : irritation.

Ingestion : aspiration hazard, digestive disorders.

**NFPA Ratings (Scale 0-4):** Health=1 Fire=1 Reactivity=0

**IV. FIRST AID MEASURE****Emergency Procedures:****Inhalation :**

Remove personnel from exposure area to fresh air immediately. If breathing is difficult, give oxygen. If breathing ceases, use a oxygen rescuer or similar device to perform artificial respiration. Get

**Skin Contact :**

Remove contaminated clothing, jewelry and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains ( at least 15~20 minutes). If irritation or adverse symptoms develop, seek medical attention.

**Eye Contact :**

Flush eyes immediately with running water for at least fifteen minutes, occasionally lifting upper and lower lids, until no evidence of chemical remains. Get medical attention immediately.

**Digestion :**

If vomiting occurs, keep head lower than hips to help prevent aspiration. Get medical attention.

**Protection of First-aider:** no information is available.

**Notes to Physician:** no information is available.

**V. FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:** regular dry chemical, carbon dioxide, water, regular foam.

**Large fires:** Use regular foam or flood with fine water spray.

**Specific Hazards:** Incomplete burning can produce carbon monoxide and/or carbon dioxide and other harmful products.

**Special Fire Fighting Procedures:**

1. Firefighters should wear proper protective equipment stay upwind.
2. Move container from fire area and shut off source if it can be done without risk.
3. Cool containers with water spray until well after the fire is out.
4. Do not scatter spilled material with high-pressure water streams.
5. Keep unnecessary people away, isolate hazard area and deny entry.
6. Avoid inhalation of material or combustion by-products.

### VI. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:**

1. Avoid heat, flames, sparks and other sources of ignition.
2. Stop leak if possible without personal risk.
3. Reduce vapors with water spray.

**Environmental Precautions:**

1. Eliminate all open flame in vicinity of spill or released vapor.
2. Stop the source of the leak or release.
3. Clean up releases as soon as possible.
4. Contain liquid to prevent further contamination of soil, surface water or groundwater.

**Methods for Cleaning Up:**

1. Clean up small spills using sand or other non-combustible material.
2. Collect spilled material in appropriate container for disposal.
3. Where feasible and appropriate, remove contaminated soil.
4. Follow prescribed procedures for reporting and responding to larger releases.

### VII. HANDLING AND STORAGE

**Handling:**

1. Wear protective equipment, if exposure conditions warrant.
2. Wash thoroughly after handling.
3. Use with adequate ventilation.
4. Handle in accordance with all current regulations and standards.

**Storage:**

1. Keep away from heat, sparks and flames.
2. Store in well-ventilated area.
3. Store in a tightly closed container.
4. Store in a cool, dry place.
5. Bond and ground during transfer.
6. Keep separated from incompatible substances.
7. Storage in accordance with all current regulations and standards.

### VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering Control:**

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

**Control Parameter:**

<b>HAZARDOUS MATERIAL</b>	<b>TWA</b>	<b>STEL</b>	<b>CEILING</b>
---------------------------	------------	-------------	----------------

Mineral Oil Mist	ACGIH: 5 mg/m <sup>3</sup>	NIOSH : 10mg/m <sup>3</sup>	--
	NIOSH: 5 mg/m <sup>3</sup>	UK OES : 10mg/m <sup>3</sup>	
	OSHA : 5 mg/m <sup>3</sup>		

**Personal Protection Equipment:****Respiratory Protection:**

Not generally required unless needed to prevent respiratory irritation. In case of spill or leak resulting in unknown concentration, use NOISH approved supplied air respirator.

**Hand Protection:**

Wear appropriate chemical resistant gloves.

**Eye Protection:**

Wear splash resistant safety goggles or face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate

**Skin and Body Protection:**

Wear appropriate chemical resistant clothing. Remove any chemical soaked clothing immediately.

**IX. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b> liquid	Form: yellow or brown viscous liquid
<b>Color:</b> yellow or brown	Odor: mild oily odor
<b>PH :</b> Not available	Boiling Range: No data
<b>Decomposition Temperature:</b> No data	Flash Point: 202°C (396°F) (LB53240) 236°C (457°F) (LB53250) Test Method: Open Cup
<b>Autoignition Temperature:</b> No data	Flammable Limits: Not available
<b>Vapor Pressure:</b> <0.0001 mmHg @20°C	Vapor Density: Not available
<b>Specific Gravity:</b> 0.96~0.98g/cm <sup>3</sup> @ (60°F )	Solubility: insoluble in water

**X. STABILITY AND REACTIVITY**

<b>Stability:</b> Stable at normal temperatures and pressure.
<b>Possible Hazardous Reactions:</b> Will not polymerize.
<b>Conditions to Avoid:</b> Avoid heat, flames, spark and other sources of ignition. Avoid contact with incompatible material.
<b>Materials to Avoid:</b> strong oxidizing agents.
<b>Hazardous Decomposition Products:</b> Oxides of carbon.

**XI. TOXICOLOGICAL INFORMATION**

**Acute Toxicity:****Inhalation:**

Combined Extract : Vapors or mist may cause irritation of the respiratory tract nose, throat and lungs. May cause nausea and headaches.

Paraffinic Distillate: Mists or sprays of insoluble oils are not harmful to the respiratory tract, although worker discomfort may occur at oil mist level of 5 mg/m<sup>3</sup>

**Skin Contact:**

Combined Extract: May cause irritation. Skin absorption may occur.

Paraffinic Distillate: May cause hair follicles, comedones, perifollicular papules and pustules. Some individuals may develop a skin sensitivity to petroleum products.

**Eye Contact:**

Combined Extract : Vapors or mist cause moderate irritation.

Paraffinic Distillate: Found to be moderately irritating to rabbit eyes.

**Ingestion:**

Paraffinic Distillate: may cause gastrointestinal disturbance such as diarrhea.

**Local Effect:** No data available.

**Sensitization:** No data available.

**Chronic Toxicity:****Inhalation:**

Paraffinic Distillate: Repeated or prolonged contact with oils may cause fibrotic nodules, lipoid pneumonia, and lipid granuloma.

**Skin Contact:**

Combined Extract: Repeated or prolonged contact may cause moderate irritation. Animal studies have shown repeated contact produced liver and blood forming organ effect. When tested on mice, a significant incidence of tumors was produced.

**Eye Contact:**

Paraffinic Distillate: Repeated or prolonged contact with irritants may cause conjunctivitis.

**Ingestion:** No data available.

**Specific Effects:** No data available.

**XII. ECOLOGICAL INFORMATION**

**Environmental Mobility:** No data available.

**XIII. DISPOSAL CONSIDERATIONS****Subject to disposal regulations:**

Dispose in accordance with all applicable regulations.

**XIV. TRANSPORT INFORMATION**

No classification assigned.

**XV. REGULATORY INFORMATION**

<p><b>Suitable Regulations:</b></p> <p><b>1. U.S. Regulations:</b>  TSCA Inventory Status: Y  SARA Hazard Categories, SARA Sections 311/312(40 CFR 370.21):  Acute: N  Chronic: N  Fire: N  Reactive: N  OSHA Process Safety(29 CFR 1910.119): N</p> <p><b>2. State Regulations:</b>  California Proposition 65: N</p> <p><b>3. European Regulations:</b>  EC Number (EINECS) : 265-110-5</p>
---

**XVI. OTHER INFORMATION**

Reference Literatures	1. OHS0287 2. OHS11250 3. Additive MSDS	
Made By	Catur Prima Cahaya, PT Refining & Manufacturing Research Center	
	Title: Project Manager	Name: Chin-Ming Lin
Creation Date		

Catur Prima Cahaya PT (CPC), believes that the information contained here in (including data and statements) is accurate as of the date here of.

**NO ANY WARRANTY, EXPRESS OR IMPLIED, IS MADE AS CONCERNS THE INFORMATION HERE IN PROVIDED.**

The information provided here in relates only to the specific product designated and may not be valid not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use of the product and information referred to here in are beyond the control of CPC.

CPC expressly disclaims any and all liability as to any results obtained or arising from any use of product or such information.

**PT. CATUR PRIMA CAHAYA**