# SAFETY DATA SHEET

## SECTION 1 IDENTIFICATION OF THE HAZARDOUS CHEMICAL AND OF THE SUPPLIER

As of the revision date above, this SDS meets the regulations in Malaysia.

**PRODUCT IDENTIFIER**

**Product Name:** **MOBIL SHC CIBUS 32 HT**
**Product Description:** Synthetic Base Stock
**Product Code:** 201560806010, 627711-60

**RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE**

**Recommended Use:** Heat transfer
**Restrictions on Use:** None unless specified elsewhere in this SDS.

**SUPPLIER DETAILS**

**Supplier:** **ExxonMobil Asia Pacific Pte.Ltd. (Company No.: 196800312N)**
1 Harbour Front Place
#06-00 Harbour Front Tower One 098633 Singapore

**24 Hour Emergency Telephone** 1-800-815-308 / +1-703-527-3887

**Supplier General Contact** (+65) 6885 8000

**Supplier:** **HT LUBRICANT SENDIRIAN BERHAD (646137-M)**
90, Jin Tampoi
Johor Bahru 81200 Malaysia

**Supplier General Contact** +607-335 3663

**Supplier:** **MOBILUB TRADING SENDIRIAN BERHAD (514125-H)**
No.1, Jalan Meranti Puchong,
D'25@Meranti Puchong
Selangor Darul Ehsan 47120 Malaysia

**Supplier General Contact** +603-8066 5081

**Supplier:** **OPTIMUM FLUIDS MARKETING SENDIRIAN BERHAD (668909-D)**
PLOT 110, LGR.PERINDUSTRIAN, BUKIT MINYAK 11
KAW.PENINDUSTRIAN, Bukit Mertajam
Penang 14100 Malaysia

**Supplier General Contact** +604-510 2166

**Supplier:** **TIMUR LUBE SDN. BHD. (806793-H)**
Wisma Hubline,1st Floor, Lease No.3815, Lot 10914, Section 64
KTLD, Jalan Datuk Abang Abdul Rahim

93450 Kuching
Sarawak Malaysia

**Supplier General Contact** +6 082 338567

## SECTION 2 HAZARDS IDENTIFICATION

This material is not hazardous according to regulatory guidelines (see SDS Section 15).

**Other hazard information:**

**PHYSICAL / CHEMICAL HAZARDS**
No significant hazards.

**HEALTH HAZARDS**
Excessive exposure may result in eye, skin, or respiratory irritation.

**ENVIRONMENTAL HAZARDS**
No significant hazards.

**NOTE:** This material should not be used for any other purpose than the recommended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

## SECTION 3 COMPOSITION AND INFORMATION OF THE INGREDIENTS OF THE HAZARDOUS CHEMICAL

This material is defined as a mixture.

**No Hazardous Substance(s) or Complex Substance(s) required for disclosure.**

## SECTION 4 FIRST AID MEASURES

**INHALATION**
Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

**SKIN CONTACT**
Wash contact areas with soap and water.

**EYE CONTACT**
Flush thoroughly with water. If irritation occurs, get medical assistance.

**INGESTION**
First aid is normally not required. Seek medical attention if discomfort occurs.

**NOTE TO PHYSICIAN**

None

## SECTION 5 FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA**

**Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

**Inappropriate Extinguishing Media:** Straight streams of water

**FIRE FIGHTING**

**Fire Fighting Instructions:** Water or foam will cause explosion of hot oil. Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

**Unusual Fire Hazards:** Water used on hot oil can cause explosions from steam generation. Oil saturated hot lagging will result in reduced auto ignition temperature.

**Hazardous Combustion Products:** Aldehydes, Incomplete combustion products, Oxides of carbon, Smoke, Fume, Sulphur oxides

**FLAMMABILITY PROPERTIES**

**Flash Point [Method]:** >218°C (424°F) [ASTM D-92]
**Flammable Limits (Approximate volume % in air):** LEL: 0.9 UEL: 7.0
**Autoignition Temperature:** N/D

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

**PROTECTIVE MEASURES**

Avoid contact with spilled material. See Section 6 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 5 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

**ENVIRONMENTAL PRECAUTIONS**

Large Spills: Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

**METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

**Land Spill:** Stop leak if you can do so without risk. Recover by pumping or with suitable absorbent.

**Water Spill:** Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

## SECTION 7 HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

**Static Accumulator:** This material is a static accumulator.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

### CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

The type of container used to store the material may affect static accumulation and dissipation. Do not store in open or unlabelled containers. Keep away from incompatible materials.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### CONTROL PARAMETERS

**Exposure limits/standards for materials that can be formed when handling this product:** When mists/aerosols can occur the following is recommended: 5 mg/m³ - ACGIH TLV (inhalable fraction).

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

**Biological limits**

No biological limits allocated.

### ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:
No special requirements under ordinary conditions of use and with adequate ventilation.

**PERSONAL PROTECTION**

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:
No special requirements under ordinary conditions of use and with adequate ventilation.
Particulate

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:
No protection is ordinarily required under normal conditions of use. Nitrile,Viton

**Eye Protection:** If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:
No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

**ENVIRONMENTAL CONTROLS**

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.**

**GENERAL INFORMATION**

**Physical State:** Liquid
**Colour:** Pale Yellow
**Odour:** Characteristic
**Odour Threshold:** N/D

**IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION**

**Relative Density (at 15 °C):** 0.82
**Flammability (Solid, Gas):** N/A
**Flash Point [Method]:** >218°C (424°F) [ASTM D-92]
**Flammable Limits (Approximate volume % in air):** LEL: 0.9 UEL: 7.0
**Autoignition Temperature:** N/D
**Boiling Point / Range:** > 316°C (601°F) [Estimated]
**Decomposition Temperature:** N/D
**Vapour Density (Air = 1):** > 2 at 101 kPa [Estimated]
**Vapour Pressure:** < 0.001 kPa (0.01 mm Hg) at 20 °C [Estimated]
**Evaporation Rate (n-butyl acetate = 1):** N/D
**pH:** N/A
**Log Pow (n-Octanol/Water Partition Coefficient):** > 3.5 [Estimated]
**Solubility in Water:** Negligible
**Viscosity:** 29.5 cSt (29.5 mm2/sec) at 40ºC | 5.6 cSt (5.6 mm2/sec) at 100°C [ASTM D 445]
**Oxidizing Properties:** See Hazards Identification Section.

**OTHER INFORMATION**

**Freezing Point:** N/D
**Melting Point:** N/A
**Pour Point:** -51°C (-60°F)

## SECTION 10 STABILITY AND REACTIVITY

**REACTIVITY:** See sub-sections below.

**STABILITY:** Material is stable under normal conditions.

**CONDITIONS TO AVOID:** Excessive heat. High energy sources of ignition.

**INCOMPATIBLE MATERIALS:** Strong oxidisers

**HAZARDOUS DECOMPOSITION PRODUCTS:** Material does not decompose at ambient temperatures.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

## SECTION 11 TOXICOLOGICAL INFORMATION

**INFORMATION ON TOXICOLOGICAL EFFECTS**

| Hazard Class | Conclusion / Remarks |
|---|---|
| **Inhalation** | |
| Acute Toxicity: (Rat) 4 hour(s) LC50 > 5200 mg/m3 (Aerosol) Test scores or other study results do not meet criteria for classification. | Minimally Toxic. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 403 |
| Irritation: No end point data for material. | Negligible hazard at ambient/normal handling temperatures. |
| **Ingestion** | |
| Acute Toxicity (Rat): LD50 > 5000 mg/kg Test scores or other study results do not meet criteria for classification. | Minimally Toxic. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 401 |

| | |
|---|---|
| **Skin** | |
| Acute Toxicity (Rabbit): LD50 > 2000 mg/kg Test scores or other study results do not meet criteria for classification. | Minimally Toxic. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 402 |
| Skin Corrosion/Irritation (Rabbit): Data available. Test scores or other study results do not meet criteria for classification. | Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 404 |
| **Eye** | |
| Serious Eye Damage/Irritation (Rabbit): Data available. Test scores or other study results do not meet criteria for classification. | May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 405 |
| **Sensitisation** | |
| Respiratory Sensitization: No end point data for material. | Not expected to be a respiratory sensitizer. |
| Skin Sensitization: Data available. Test scores or other study results do not meet criteria for classification. | Not expected to be a skin sensitizer. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 406 |
| **Aspiration:** Data available. | Not expected to be an aspiration hazard. Based on physico-chemical properties of the material. |
| **Germ Cell Mutagenicity:** Data available. Test scores or other study results do not meet criteria for classification. | Not expected to be a germ cell mutagen. Based on test data for structurally similar materials. Test method unavailable. |
| **Carcinogenicity:** No end point data for material. | Not expected to cause cancer. |
| **Reproductive Toxicity:** Data available. Test scores or other study results do not meet criteria for classification. | Not expected to be a reproductive toxicant. Based on test data for structurally similar materials. Test method unavailable. |
| **Lactation:** No end point data for material. | Not expected to cause harm to breast-fed children. |
| **Specific Target Organ Toxicity (STOT)** | |
| Single Exposure: No end point data for material. | Not expected to cause organ damage from a single exposure. |
| Repeated Exposure: Data available. Test scores or other study results do not meet criteria for classification. | Not expected to cause organ damage from prolonged or repeated exposure. Based on test data for structurally similar materials. Test method unavailable. |

## OTHER INFORMATION

**Contains:**
Synthetic base oils: Not expected to cause significant health effects under conditions of normal use, based on laboratory studies with the same or similar materials. Not mutagenic or genotoxic. Not sensitising in test animals and humans.

**IARC Classification:**
**The following ingredients are cited on the lists below:** None.

--REGULATORY LISTS SEARCHED--
1 = IARC 1 2 = IARC 2A 3 = IARC 2B

## SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

**ECOTOXICITY**

Material -- Not expected to be harmful to aquatic organisms.

**MOBILITY IN SOIL**

Material -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

**PERSISTENCE AND DEGRADABILITY** No data available.

**BIOACCUMULATIVE POTENTIAL** No data available

**OTHER ADVERSE EFFECTS**

No adverse effects are expected.

## SECTION 13 DISPOSAL INFORMATION

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

**DISPOSAL METHODS**

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products. Protect the environment. Dispose of used oil at designated sites. Minimize skin contact. Do not mix used oils with solvents, brake fluids or coolants.

**REGULATORY DISPOSAL INFORMATION**

**Environmental Quality (Scheduled Wastes) Regulations 2005 waste code:** SW 305

Note: These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s); This material is considered as hazardous waste pursuant to Environmental Quality (Scheduled Wastes) Regulations 2005.

**Empty Container Warning** Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

## SECTION 14 TRANSPORT INFORMATION

**LAND** : Not Regulated for Land Transport

**SEA (IMDG):** Not Regulated for Sea Transport according to IMDG-Code

**Marine Pollutant:** No

**AIR (IATA):** Not Regulated for Air Transport

## SECTION 15 REGULATORY INFORMATION

**This material is not hazardous as defined by the Occupational Safety and Health (Classification, Labeling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.**

**REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS**

**Listed or exempt from listing/notification on the following chemical inventories (May contain substance(s) subject to notification to the EPA Active TSCA inventory prior to import to USA):** AIIC, DSL, ENCS, IECSC, ISHL, KECI, PICCS, TCSI, TSCA

**National Laws and Regulations:**
Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000

## SECTION 16 OTHER INFORMATION

**List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:**

| Acronym | Full text |
|---|---|
| N/A | Not applicable |
| N/D | Not determined |
| NE | Not established |
| VOC | Volatile Organic Compound |
| AIIC | Australian Inventory of Industrial Chemicals |
| AIHA WEEL | American Industrial Hygiene Association Workplace Environmental Exposure Limits |
| ASTM | ASTM International, originally known as the American Society for Testing and Materials (ASTM) |
| DSL | Domestic Substance List (Canada) |
| EINECS | European Inventory of Existing Commercial Substances |
| ELINCS | European List of Notified Chemical Substances |
| ENCS | Existing and new Chemical Substances (Japanese inventory) |
| IECSC | Inventory of Existing Chemical Substances in China |
| KECI | Korean Existing Chemicals Inventory |
| NDSL | Non-Domestic Substances List (Canada) |
| NZIoC | New Zealand Inventory of Chemicals |
| PICCS | Philippine Inventory of Chemicals and Chemical Substances |
| TLV | Threshold Limit Value (American Conference of Governmental Industrial Hygienists) |
| TSCA | Toxic Substances Control Act (U.S. inventory) |
| UVCB | Substances of Unknown or Variable composition, Complex reaction products or Biological materials |
| LC | Lethal Concentration |
| LD | Lethal Dose |
| LL | Lethal Loading |
| EC | Effective Concentration |
| EL | Effective Loading |

| | |
|---|---|
| NOEC | No Observable Effect Concentration |
| NOELR | No Observable Effect Loading Rate |

**THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:**
TIMUR LUBE SDN. BHD. (806793-H): Section 01: Supplier Mailing Address information was modified.
Section 01: Product Description information was modified.
Section 03: Vapour Pressure information was added.
Section 11: Carcinogen Test Comment information was deleted.
Section 11: Dermal Irritation Test Comment information was modified.
Section 11: Dermal Irritation Test Data information was modified.
Section 11: Dermal Lethality Test Comment information was modified.
Section 11: Dermal Lethality Test Data information was modified.
Section 11: Dermal Lethality Test Guideline information was added.
Section 11: Eye Irritation Test Comment information was modified.
Section 11: Eye Irritation Test Data information was modified.
Section 11: Eye Irritation Test Guideline information was added.
Section 11: Inhalation Lethality Test Comment information was modified.
Section 11: Inhalation Lethality Test Data information was modified.
Section 11: Inhalation Lethality Test Guideline information was added.
Section 11: Mutagen Test Comment information was modified.
Section 11: Mutagen Test Data information was modified.
Section 11: Mutagen Test Guideline information was added.
Section 11: Oral Lethality Test Comment information was modified.
Section 11: Oral Lethality Test Data information was modified.
Section 11: Oral Lethality Test Guideline information was added.
Section 11: Reproductive Test Comment information was modified.
Section 11: Reproductive Test Data information was modified.
Section 11: Reproductive Test Guideline information was added.
Section 11: Skin Irritation Test Guideline information was added.
Section 11: Skin Sensitization Test Comment information was modified.
Section 11: Skin Sensitization Test Data information was modified.
Section 11: Skin Sensitization Test Guideline information was added.
Section 11: Target Organ Toxicity - Repeat Test Comment information was modified.
Section 11: Target Organ Toxicity - Repeat Test Data information was modified.
Section 11: Target Organ Toxicity - Repeat Test Guideline information was added.
Section 12: Ecological Information - Mobility information was modified.
Section 15: National Chemical Inventory Listing information was modified.

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DGN: 7091212XMY (1015449)