Safety Data Sheet
Tulux T500 CI-4/SL 15W40 Diesel Engine Oil

Version 1.0
Issue date: 06/11/2020
Revision date: 06/11/2020
SDS record number: CSSS-TCO-010141116

1. Product and Company Identification

Material name: Tulux T500 CI-4/SL 15W40 Diesel Engine Oil
CAS #: See section 3
Product code: 60204887
Product use: Can be used in diesel engine for lubricating, cooling and airproofing etc.
Manufacturer/Supplier:
Supplier(Manufacturer): SINOPEC LUBRICANT CO., LTD.
Address: No. 6 Anning Zhuang West Road, Haidian District, Beijing, P.R.China
Contact person(E-mail): csc.lube@sinopec.com
Telephone: 00-86-95388-3
Fax: 86-10-82410856
Emergency telephone Number: 00-86-95388-3

2. Hazards identification

GHS classification
Physical hazards: Not classified
Health hazards: Not classified
Environmental hazards: Not classified

GHS label elements
Hazard Pictograms: No hazard pictogram is used.
Signal word: No signal word is used.
Hazard statement: Not applicable.

Precautionary statement
Prevention: Not applicable.
Response: Not applicable.
Storage: Not applicable.
Disposal: Not applicable.
Other hazards: Not available.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS#</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc alkyl dithiophosphate</td>
<td>68649-42-3</td>
<td>&lt;1%weight</td>
</tr>
<tr>
<td>Additive</td>
<td>Mixture</td>
<td>&lt;20%weight</td>
</tr>
<tr>
<td>Distillates. hydrotreated light naphthenic</td>
<td>64742-53-6</td>
<td>80-90%weight</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures

Eye contact: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin contact: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.
5. Fire Fighting Measure

Flammable properties
Not available.

Extinguishing media
Suitable extinguishing media
Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Unsuitable extinguishing media
Not available.

Firefighting equipment/instructions
This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

6. Accidental Release Measures

Personal precautions
Eliminate all sources of ignition in vicinity of spilled material.

Environmental precautions
Do not let product enter drains.

Methods for cleaning up
Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

7. Handling and Storage

Handling
Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'. Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, 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. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner.
or disposed of properly.

Storage
Keep container tightly closed in a dry and well-ventilated place.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates, Hydrotreated light naphthenic (CAS 64742-53-6)</td>
<td>PEL</td>
<td>5 mg/m³</td>
<td>Mist.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2000 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 ppm</td>
<td></td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates, Hydrotreated light naphthenic (CAS 64742-53-6)</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates, Hydrotreated light naphthenic (CAS 64742-53-6)</td>
<td>Ceiling</td>
<td>1800 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>10 mg/m³</td>
<td>Mist.</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls:
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Individual protection measures, such as personal protective equipment:

Eye / face protection
No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin protection
No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: Neoprene, Nitrile Rubber.

Respiratory protection
No respiratory protection is normally required. 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 user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

General hygiene considerations
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

9. Physical & Chemical Properties

Appearance

| Physical state | Liquid |
| Form | Liquid |
| Color | Light to Brown |
| Odor | Petroleum odor |
| Odor threshold | Not available |
### Material name:
Tulux T500 CI-4/SL 15W40 Diesel Engine Oil

### Version #: 1.0
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<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>&lt;0.01 mmHg Maximum @ 37.8 °C (100 °F)</td>
</tr>
<tr>
<td>Vapor density</td>
<td>&gt;1 Minimum</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting point/Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility (water)</td>
<td>Soluble in hydrocarbon solvents; insoluble in water.</td>
</tr>
<tr>
<td>Density</td>
<td>0.80 kg/l - 0.90 kg/l @ 20°C (68°F) (Typical)</td>
</tr>
<tr>
<td>Flash point</td>
<td>(Cleveland Open Cup) 220 °C (428 °F) Minimum</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limits in air, upper, % by volume</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limits in air, lower, % by volume</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>VOC</td>
<td>Not available</td>
</tr>
<tr>
<td>Percent volatile</td>
<td>Not available</td>
</tr>
<tr>
<td>Molecular Formula</td>
<td>Not available</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>12.5 mm²/s – 16.3 mm²/s @ 100°C (212°F)</td>
</tr>
<tr>
<td>Dissociation constant</td>
<td>Not available</td>
</tr>
<tr>
<td>Pour Point</td>
<td>-27°C (-16.6°F) (Typical)</td>
</tr>
</tbody>
</table>

### 10. Chemical Stability & Reactivity Information

**Reactivity:**
The substance is stable under normal storage and handling conditions.

**Chemical stability:**
Material is stable under normal conditions.

**Conditions to avoid:**

**Incompatible materials:**
May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

**Hazardous decomposition products:**
Carbon monoxide, carbon dioxide, and unidentified organic compounds.

**Possibility of hazardous reactions:**
No hazardous reactions known.

### 11. Toxicological Information

**Toxicokinetics, metabolism and distribution:**

Non-human toxicological data: Not available

**Information on toxicological effects:**

**Acute toxicity:**
Distillates, Hydrotreated light naphthenic (CAS#64742-53-6)

LD50(Oral, Rat): > 5 000 mg/kg bw
LD50(Dermal, Rabbit): > 5 000 mg/kg bw
LC50(Inhalation, Rat): > 5.53 mg/L, 4 h
Skin corrosion/Irritation: Not classified
Serious eye damage/irritation: Not classified
Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
STOT- single exposure: Not classified
STOT-repeated exposure: Not classified
Aspiration hazard: Not classified

12. Ecological Information

Toxicity:

Distilleds, Hydrotreated light naphthenic (CAS#64742-53-6)

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Time</th>
<th>Species</th>
<th>Method</th>
<th>Evaluation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50</td>
<td>N/A</td>
<td>96h</td>
<td>Fish</td>
<td>OECD 203</td>
<td>N/A</td>
</tr>
<tr>
<td>EL50</td>
<td>&gt; 10 000 mg/L</td>
<td>48h</td>
<td>Daphnia</td>
<td>OECD 202</td>
<td>N/A</td>
</tr>
<tr>
<td>EC50</td>
<td>N/A</td>
<td>72h</td>
<td>Algae</td>
<td>OECD 201</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Persistence and degradability:
This material is not expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material.

Bioaccumulative potential: Not available.

Mobility in soil: Not available.

Results of PBT&vPvB assessment: Not available.

Other adverse effects: Not available.

13. Disposal Considerations

Disposal instructions
Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated packaging
Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT

Basic shipping requirements:
- UN number: Not regulated
- Proper shipping name: Not regulated
- Hazard class: Not regulated
- Packing group: Not regulated
- Environmental hazards: No

IATA

- UN number: Not regulated
- UN proper shipping name: Not regulated
- Transport hazard class(es): Not regulated
- Packing group: Not regulated
- Environmental hazards: No

IMDG

- UN number: Not regulated
- UN proper shipping name: Not regulated
- Transport hazard class(es): Not regulated
- Packing group: Not regulated
- Environmental hazards: No

15. Regulatory Information

US federal regulations

Toxic Substances Control Act (TSCA)
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)
Zinc alkyl dithiophosphate (CAS 68649-42-3) Listed.

SARA 304 Emergency release notification
Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
SARA 302 Extremely hazardous substance
Not listed.

SARA 311/312 Hazardous chemical
SARA 313 (TRI reporting)
Chemical name     CAS number     % by wt.
Zinc alkyl dithiophosphate 68649-42-3 <1%

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations
California Proposition 65
US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))
Distillateds, Hydrotreated light naphthenic (CAS 64742-53-6)

16. Other Information

HMIS®ratings
Health: 0
Flammability: 1
Physical hazard: 0

NFPA ratings
Health: 0
Flammability: 1
Instability: 0

Disclaimer
The information in the sheet was written based on the best knowledge and experience currently available.

Issue date
06-11-2020