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**Revision Number** 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

|                                       |                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------|
| <b>Product name</b>                   | Sierra CI-4 Plus/SL 15W-40 Motor Oil                                                    |
| <b>Product Code(s)</b>                | 18-9553-2, 18-9553-2R, 18-9553-3, 18-9553R, 18-9553-5, 18-9553-5R, 18-9553-6, 18-9553-7 |
| <b>Recommended Use</b>                | Engine oil, Lubricant.                                                                  |
| <b>Company</b>                        | Sierra International<br>1 Sierra Place<br>Litchfield, IL 62056                          |
| <b>Manufactured for:</b>              | SeaStar Solutions                                                                       |
| <b>Company Emergency Phone Number</b> | (618) 542-5431                                                                          |
| <b>Emergency telephone number</b>     | Chemtrec 1-800-424-9300                                                                 |

## 2. Hazards Identification

### EMERGENCY OVERVIEW

The product contains no substances which at their given concentration are considered to be hazardous to health

|                                        |                                      |                                 |
|----------------------------------------|--------------------------------------|---------------------------------|
| <b>appearance</b> Amber colored liquid | <b>Physical state</b> viscous liquid | <b>Odor</b> Mild petroleum odor |
|----------------------------------------|--------------------------------------|---------------------------------|

#### Potential health effects

**Principle Routes of Exposure** Skin contact, ingestion, inhalation or injection.

#### Acute toxicity

##### EYES

Can be irritating to eyes. If contact occurs, flush with water for 30 minutes. Get medical attention if eye irritation persists.

##### skin

Avoid excessive contact with skin. Always wash skin and soiled clothing with soap and water after exposure.

##### inhalation

Remove exposed person to fresh air if adverse effects are observed.

##### INGESTION

Do not induce vomiting. Get medical attention.

#### Chronic effects

|                             |                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environmental hazard</b> | Always use proper personal protective equipment for petroleum based products if a spill occurs.<br><br>Quarantine affected area, prevent spill from entry into sewers and waterways. Pick up free and residual liquid for proper disposal and/or recycling.<br><br>Always follow proper local, state, and federal guidelines for clean up and disposal for motor oil and other petroleum products. |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 3. Composition/information on Ingredients

|                        |                                |
|------------------------|--------------------------------|
| <b>Common Name</b>     | Hydrocarbon Lubricating Fluid. |
| <b>Chemical Family</b> | Petroleum hydrocarbon mixture. |

| Chemical name                                           | CAS-No     | Weight % |
|---------------------------------------------------------|------------|----------|
| Petroleum distillates, hydrotreated heavy paraffinic    | 64742-54-7 | 72.21    |
| Petroleum distillates, solvent-refined heavy paraffinic | 64741-88-4 | 0-70     |

### 4. First aid measures

|                       |                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------|
| <b>General advice</b> | No hazards which require special first aid measures.                                   |
| <b>Eye contact</b>    | Flush eyes for 30 minutes with water. Get medical attention if irritation persists.    |
| <b>Skin contact</b>   | Wash off immediately with soap and plenty of water.                                    |
| <b>inhalation</b>     | Move exposed persons to fresh air. Consult medical personal if breathing issues occur. |
| <b>INGESTION</b>      | Do NOT induce vomiting. Consult a physician.                                           |

### 5. Fire-fighting measures

|                                     |                                                                                                                        |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Flammable properties</b>         | Material is not considered to be flammable or combustible due to the material's flash point being above 200 degrees F. |
| <b>flash point</b>                  | 228C                                                                                                                   |
| <b>Method</b>                       | Cleveland open cup (COC)                                                                                               |
| <b>Suitable extinguishing media</b> | Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Foam. Water can be used to keep surrounding materials cool.           |
| <b>Large Fires</b>                  | Contact emergency personnel                                                                                            |

#### Explosion data

|             |                        |                       |                    |                                        |
|-------------|------------------------|-----------------------|--------------------|----------------------------------------|
| <b>NFPA</b> | <b>Health hazard -</b> | <b>flammability -</b> | <b>stability -</b> | <b>Physical and Chemical Hazards -</b> |
|-------------|------------------------|-----------------------|--------------------|----------------------------------------|

## 6. Accidental release measures

|                                |                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b>    | Avoid contact with the skin and the eyes. Eye protection or face shield should be used if material is used under conditions that increase the chances of splattering. Wash skin with soap and water if contact occurs. Launder soiled clothing. If spilled, take caution, as material can cause surfaces to become very slippery. |
| <b>Methods for containment</b> | Cover with earth, sand, or other non-combustible material followed with plastic sheets to minimize spreading or contact with rain.                                                                                                                                                                                                |
| <b>Methods for cleaning up</b> | Excess liquid material can be collected using a scoop or shovel and stored for recycling or disposal. Prevent material from entering drains or waterways.                                                                                                                                                                         |

## 7. Handling and Storage

|                 |                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling</b> | Avoid contact with skin, eyes and clothing. Eye protection or face shield should be used if material is used under conditions that increase the chances of splattering. If contact is made, wash skin with soap and water. Launder soiled clothing. Maximum handling temperature is 70 degrees C (158 F). It is recommended to pump or transfer material at ambient temperature. |
| <b>Storage</b>  | Keep away from heat and sources of ignition. Keep containers closed when not in use. Follow first aid measures if contact occurs, and spill procedures if spill occurs. For packaged material: Store in a cool dry area. For bulk material: store in cool dry area. Always follow local, state, and federal guidelines for storage of material for amount stored.                |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                                      |                                                                                                                        |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Personal protective equipment</b> |                                                                                                                        |
| <b>Eye/face Protection</b>           | If splashes are likely to occur, wear:. Goggles. Eye/face Protection.                                                  |
| <b>Skin and body protection</b>      | Long sleeved clothing. Protective gloves can be worn, if material comes in contact with skin wash with soap and water. |
| <b>Hygiene Measures</b>              | Remove and wash contaminated clothing before re-use.                                                                   |

## 9. Physical and Chemical Properties

|                                 |                          |                                   |                                                                                        |
|---------------------------------|--------------------------|-----------------------------------|----------------------------------------------------------------------------------------|
| <b>appearance</b>               | Amber colored liquid     | <b>Odor</b>                       | Mild petroleum odor                                                                    |
| <b>Physical state</b>           | viscous liquid           |                                   |                                                                                        |
| <b>flash point</b>              | 228C                     | <b>Method</b>                     | Cleveland open cup (COC)                                                               |
| <b>Autoignition temperature</b> | No information available | <b>Boiling Point/Range</b>        | No information available                                                               |
|                                 |                          | <b>Flammability Limits in Air</b> | No information available                                                               |
| <b>Explosion Limits</b>         | No information available |                                   |                                                                                        |
| <b>Specific gravity</b>         | 0.88                     | <b>solubility</b>                 | No information available                                                               |
| <b>evaporation rate</b>         | No information available | <b>vapor pressure</b>             | No information available                                                               |
| <b>vapor density</b>            | No information available | <b>viscosity</b>                  | Viscosity at 40C (ASTM D-445), cSt: 116.3<br>Viscosity at 100C (ASTM D-445), cSt: 15.2 |

## 10. Stability and Reactivity

|                  |                                 |
|------------------|---------------------------------|
| <b>stability</b> | Stable under normal conditions. |
|------------------|---------------------------------|

## 11. Toxicological Information

**Acute toxicity**

| Chemical name                                           | LD50 Oral          | LD50 Dermal           | LC50 Inhalation       |
|---------------------------------------------------------|--------------------|-----------------------|-----------------------|
| Petroleum distillates, hydrotreated heavy paraffinic    | 2000 mg/kg ( Rat ) | 2000 mg/kg ( Rabbit ) | 2.18 mg/L ( Rat ) 4 h |
| Petroleum distillates, solvent-refined heavy paraffinic | 5000 mg/kg ( Rat ) | 2000 mg/kg ( Rabbit ) | 2.18 mg/L ( Rat ) 4 h |

**Chronic toxicity**

| Chemical name                                           | ACGIH | IARC    | NTP | OSHA |
|---------------------------------------------------------|-------|---------|-----|------|
| Petroleum distillates, hydrotreated heavy paraffinic    |       | Group 1 |     | X    |
| Petroleum distillates, solvent-refined heavy paraffinic |       | Group 1 |     | X    |

## 12. Ecological Information

**ecotoxicity**

| Chemical name                                           | Toxicity to Algae | Toxicity to Fish                            | Microtox | Daphnia Magna (Water Flea) |
|---------------------------------------------------------|-------------------|---------------------------------------------|----------|----------------------------|
| Petroleum distillates, hydrotreated heavy paraffinic    |                   | LC50> 5000 mg/L<br>Pimephales promelas 96 h |          | EC50 > 1000 mg/L 48 h      |
| Petroleum distillates, solvent-refined heavy paraffinic |                   | LC50> 5000 mg/L<br>Oncorhynchus mykiss 96 h |          | EC50 > 1000 mg/L 48 h      |

## 13. Disposal Considerations

## 14. Transport Information

**DOT** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

## 15. Regulatory information

### International Inventories

|               |                 |
|---------------|-----------------|
| TSCA          | Does not comply |
| DSL           | Does not comply |
| EINECS/ELINCS | Does not comply |
| ENCS          | Does not comply |
| IECSC         | Does not comply |
| KECL          | Does not comply |
| PICCS         | Does not comply |
| AICS          | Does not comply |

### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **SARA 311/312 Hazard Categories**

|                                   |    |
|-----------------------------------|----|
| Acute health hazard               | No |
| Chronic Health Hazard             | No |
| Fire hazard                       | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard                   | No |

#### **Clean Water Act**

#### **CERCLA**

### U.S. State Regulations

### International Regulations

**Mexico - Grade** No information available

#### **CANADA**

#### **WHMIS Hazard Class**

Not Determined

## 16. Other information

| NFPA            | HMIS            | PPE | Transport Symbol |
|-----------------|-----------------|-----|------------------|
| (Bad file name) | (Bad file name) |     |                  |

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**Revision note**

No information available

**Disclaimer**

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**End of MSDS**