



# Safety Data Sheet

Issuing Date 06-Mar-2014

Revision Date 14-Sep-2021

Version 5

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product name** Sierra Full Synthetic TC-W3 Two Stroke Engine Oil

### Other means of identification

**Product Code(s)** 18-9540-2, 18-9540-2R, 18-9540-3, 18-9540-3R, 18-9540-4R, 18-9540-7

**Synonyms** No information available

### Recommended use of the chemical and restrictions on use

**Recommended Use** Lubricant.

**Uses advised against** All Other Uses

### Details of the supplier of the safety data sheet

#### **Distributor**

Sierra International  
1 Sierra Place  
Litchfield, IL 62056  
Tel: 1-217-324-9487

#### Emergency telephone number

**Company Emergency Phone Number** 1-618-542-5431

**Emergency telephone number** Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

### Label elements

#### EMERGENCY OVERVIEW

**Not classified**

**Appearance** amber

**Physical state** Viscous Liquid

**Odor** Mild petroleum odor  
Petroleum solvent

### Hazards not otherwise classified (HNOC)

#### Other information

Unknown Aquatic Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Common Name** Petroleum based lubricating fluid.

**Chemical Family** Petroleum hydrocarbon mixture.

| Chemical name  | CAS-No      | Weight %  | Trade secret |
|--|-------------|-----------|--------------|
| Petroleum distillates, hydrotreated heavy paraffinic             | 64742-54-7  | >35       | *            |
| Naphtha (petroleum), hydrotreated heavy                          | 64742-48-9  | >25       | *            |
| Phenol, (dimethylamino)methyl-, polyisobutylene derivs.          | Proprietary | 5.04-6.29 | *            |
| Residual Oils (petroleum), solvent-dewaxed                       | 64742-62-7  | >5        | *            |
| Isooctadanoic Acid Reaction Products with Tetraethylenepentamine | 68784-17-8  | 1.26-2.51 | *            |
| Diphenylamine  | 122-39-4    | 0.01-0.11 | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

##### First aid measures

**General advice** No hazards which require special first aid measures.

**Eye contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, call a physician.

**Skin contact** Wash skin with soap and water. If skin irritation persists, call a physician.

**Inhalation** Move victim to fresh air. If symptoms persist, call a physician.

**Ingestion** Do NOT induce vomiting. If symptoms persist, call a physician.

##### Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

##### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>). Dry chemical. Foam. Water can be used to keep surrounding materials cool.

**Large Fires** Contact emergency personnel.

**Unsuitable extinguishing media** Do not use a solid water stream as it may scatter and spread fire.

##### Specific hazards arising from the chemical

Combustible material.

**Hazardous combustion products** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

##### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

##### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal protection** Wear protective gloves/clothing and eye/face protection.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for containment** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods for cleaning up** Soak up with inert absorbent material. Prevent product from entering drains.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Advice on safe handling** Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin and eyes.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep away from open flames, hot surfaces and sources of ignition. Keep in a dry, cool and well-ventilated place. Keep out of the reach of children.

**Incompatible Products** Strong oxidizing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure guidelines**

| Chemical name  | ACGIH TLV                 | OSHA PEL                 | NIOSH IDLH   |
|--|---------------------------|--------------------------|--|
| Petroleum distillates, hydrotreated heavy paraffinic<br>64742-54-7 | TWA: 5 mg/m <sup>3</sup>  | TWA: 5 mg/m <sup>3</sup> | IDLH: 2500 mg/m <sup>3</sup><br>TWA: 5 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup> |
| Diphenylamine<br>122-39-4  | TWA: 10 mg/m <sup>3</sup> | -                        | TWA: 10 mg/m <sup>3</sup>  |

**Appropriate engineering controls**

**Engineering Controls** Showers. Eyewash stations. Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face Protection** Goggles. Safety glasses.

**Skin and body protection** Long sleeved clothing. Protective gloves.

**Respiratory protection** In case of inadequate ventilation wear respiratory protection.

**General Hygiene Considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

**Physical state** Viscous Liquid

|                   |       |                       |  |
|-------------------|-------|-----------------------|--|
| <b>Appearance</b> | amber | <b>Odor</b>           | Mild petroleum odor<br>Petroleum solvent |
| <b>Color</b>      | amber | <b>Odor threshold</b> | No information available                 |

| <u>Property</u>                     | <u>Values</u>                | <u>Remarks • Method</u>  |
|-------------------------------------|------------------------------|--------------------------|
| <b>pH</b>                           | No information available     |                          |
| <b>Melting point/freezing point</b> | No information available     |                          |
| <b>Boiling Point/Range</b>          | No information available     |                          |
| <b>Flash point</b>                  | 117.2 °C / 243 °F            | Cleveland open cup (COC) |
| <b>Evaporation rate</b>             | No information available     |                          |
| <b>Flammability (solid, gas)</b>    | No information available     |                          |
| <b>Flammability Limit in Air</b>    |                              |                          |
| <b>Upper flammability limit:</b>    | No information available     |                          |
| <b>Lower flammability limit:</b>    | No information available     |                          |
| <b>Vapor pressure</b>               | No information available     |                          |
| <b>Vapor density</b>                | No information available     |                          |
| <b>Specific gravity</b>             | 0.841                        |                          |
| <b>Water solubility</b>             | No information available     |                          |
| <b>Solubility in other solvents</b> | No information available     |                          |
| <b>Partition coefficient</b>        | No information available     |                          |
| <b>Autoignition temperature</b>     |                              |                          |
| <b>Decomposition temperature</b>    | No information available     |                          |
| <b>Kinematic viscosity</b>          | 24-30@40C mm <sup>2</sup> /s |                          |
| <b>Dynamic viscosity</b>            | No information available     |                          |
| <b>Explosive properties</b>         | No information available     |                          |
| <b>Oxidizing properties</b>         | No information available     |                          |

**Other information**

|                        |                          |
|------------------------|--------------------------|
| <b>Softening point</b> | No information available |
| <b>VOC Content</b>     | No information available |
| <b>Density</b>         | No information available |
| <b>Bulk density</b>    | No information available |

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available

**Chemical stability**

Stable under normal conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

|                                 |  |
|---------------------------------|--|
| <b>Hazardous polymerization</b> | Hazardous polymerization does not occur. |
|---------------------------------|--|

**Conditions to avoid**

Excessive heat. Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible materials**

Strong oxidizing agents.

**Hazardous decomposition products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

|                            |  |
|----------------------------|--|
| <b>Product Information</b> | No data available  |
| <b>Inhalation</b>          | Inhalation of vapors in high concentration may cause irritation of respiratory system. May cause drowsiness and dizziness based on components. |
| <b>Eye contact</b>         | Avoid contact with eyes. May cause irritation.   |
| <b>Skin contact</b>        | Repeated exposure may cause skin dryness or cracking.  |
| <b>Ingestion</b>           | Do NOT taste or swallow.   |

| Chemical name  | Oral LD50                           | Dermal LD50             | Inhalation LC50                      |
|--|-------------------------------------|-------------------------|--------------------------------------|
| Petroleum distillates, hydrotreated heavy paraffinic<br>64742-54-7             | > 15 g/kg ( Rat ) > 24 g/kg ( Rat ) | > 5000 mg/kg ( Rabbit ) | = 2062 ppm ( Rat ) 4 h               |
| Naphtha (petroleum), hydrotreated heavy<br>64742-48-9                          | > 6000 mg/kg ( Rat )                | > 3160 mg/kg ( Rabbit ) | > 8500 mg/m <sup>3</sup> ( Rat ) 4 h |
| Residual Oils (petroleum), solvent-dewaxed<br>64742-62-7                       | > 5000 mg/kg ( Rat )                | > 2000 mg/kg ( Rabbit ) | = 2.18 mg/L ( Rat ) 4 h              |
| Isocetadanoic Acid Reaction Products with Tetraethylenepentamine<br>68784-17-8 | > 5000 mg/kg ( Rat )                | > 2000 mg/kg ( Rabbit ) | -                                    |
| Diphenylamine<br>122-39-4  | = 1120 mg/kg ( Rat )                | > 2000 mg/kg ( Rabbit ) | -                                    |

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** Mineral oils are known to cause cancer because of carcinogenic components (e.g. benzene). The mineral oil in this product is highly refined and should not be considered a carcinogen.

| Chemical name  | ACGIH | IARC    | NTP   | OSHA |
|--|-------|---------|-------|------|
| Petroleum distillates, hydrotreated heavy paraffinic<br>64742-54-7 | -     | Group 1 | Known | X    |
| Residual Oils (petroleum), solvent-dewaxed<br>64742-62-7           | -     | Group 1 | Known | X    |

**Reproductive toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration hazard** No information available.

**Numerical measures of toxicity - Product Information**

**Unknown Aquatic Toxicity** 0% of the mixture consists of ingredient(s) of unknown toxicity  
**The following values are calculated based on chapter 3.1 of the GHS document** .  
**ATEmix (oral)** 5251 mg/kg  
**ATEmix (dermal)** 4302 mg/kg  
**ATEmix (inhalation-dust/mist)** 20.108 mg/l

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Harmful to aquatic life  
Harmful to aquatic life with long lasting effects

| Chemical name  | Algae/aquatic plants                           | Fish  | Crustacea                                     |
|--|--|---|---|
| Petroleum distillates, hydrotreated heavy paraffinic<br>64742-54-7 | -  | 5000: 96 h Oncorhynchus mykiss<br>mg/L LC50                     | 1000: 48 h Daphnia magna mg/L<br>EC50         |
| Naphtha (petroleum), hydrotreated heavy<br>64742-48-9              | -  | 2200: 96 h Pimephales promelas<br>mg/L LC50                     | 2.6: 96 h Chaetogammarus<br>marinus mg/L LC50 |
| Residual Oils (petroleum), solvent-dewaxed<br>64742-62-7           | -  | 5000: 96 h Oncorhynchus mykiss<br>mg/L LC50                     | 1000: 48 h Daphnia magna mg/L<br>EC50         |
| Diphenylamine<br>122-39-4  | 1.5: 72 h Scenedesmus<br>subspicatus mg/L EC50 | 3.47 - 4.14: 96 h Pimephales<br>promelas mg/L LC50 flow-through | 1.69 - 2.46: 48 h Daphnia magna<br>mg/L EC50  |

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

| Chemical name             | Partition coefficient |
|---------------------------|-----------------------|
| Diphenylamine<br>122-39-4 | 3.4                   |

**Other adverse effects** No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

**Waste Disposal Method** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Do not reuse container.

| Chemical name             | RCRA   | RCRA - Basis for Listing                       | RCRA - D Series Wastes | RCRA - U Series Wastes |
|---------------------------|--|--|------------------------|------------------------|
| Diphenylamine<br>122-39-4 | (hazardous constituent - no<br>waste number) | Included in waste streams:<br>F039, K083, K104 | -                      | -                      |

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical name             | California Hazardous Waste Status |
|---------------------------|-----------------------------------|
| Diphenylamine<br>122-39-4 | Toxic                             |

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**IATA** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

|                      |                 |
|----------------------|-----------------|
| <b>TSCA</b>          | Does not comply |
| <b>DSL/NDSL</b>      | Does not comply |
| <b>EINECS/ELINCS</b> | Does not comply |
| <b>ENCS</b>          | Does not comply |
| <b>IECSC</b>         | Does not comply |
| <b>KECL</b>          | Does not comply |
| <b>PICCS</b>         | Does not comply |
| <b>AICS</b>          | Does not comply |

**Legend:**

All components are either listed on the US TSCA Inventory, or are not regulated under TSCA.

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| <b>Chemical name</b>     | <b>SARA 313 - Threshold Values %</b> |
|--------------------------|--------------------------------------|
| Diphenylamine - 122-39-4 | 1.0                                  |

**SARA 311/312 Hazard Categories**

|  |    |
|--|----|
| <b>Acute health hazard</b>               | No |
| <b>Chronic Health Hazard</b>             | No |
| <b>Fire hazard</b>                       | No |
| <b>Sudden release of pressure hazard</b> | No |
| <b>Reactive Hazard</b>                   | No |

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

| <b>Chemical name</b>  | <b>New Jersey</b> | <b>Massachusetts</b> | <b>Pennsylvania</b> |
|---|-------------------|----------------------|---------------------|
| Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7 | X                 | -                    | X                   |
| Diphenylamine 122-39-4  | X                 | X                    | X                   |

U.S. EPA Label Information

EPA Pesticide registration number Not Applicable

**16. OTHER INFORMATION**

|             |                  |                |                    |                                 |
|-------------|------------------|----------------|--------------------|---------------------------------|
| <u>NFPA</u> | Health hazards 0 | Flammability 1 | Instability 0      | Physical and Chemical Hazards - |
| <u>HMIS</u> | Health hazards 0 | Flammability 1 | Physical hazards 0 | Personal protection X           |

Issuing Date 06-Mar-2014

Revision Date 14-Sep-2021

**Revision Note**

SDS sections updated 2 9

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of MSDS**