



# Safety Data Sheet

Issuing Date 12-May-2015

Revision Date 12-May-2015

Version 1

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

### Product identifier

**Product name** Duraflow Synthetic Blend CJ-4 15W40

### Other means of identification

**Product Code(s)** 5059

**Synonyms** No information available

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

**Recommended Use** Engine oil, Lubricant.

**Uses advised against** All Other Uses

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

#### **Distributor**

Valor Oil LLC  
1200 Alsop Lane  
Owensboro, KY 42303  
800-544-5823

#### **Emergency telephone number**

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

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                   |             |
|-----------------------------------|-------------|
| Serious eye damage/eye irritation | Category 2A |
| Skin sensitization                | Category 1  |

### Label elements

## EMERGENCY OVERVIEW

### **WARNING**

#### **Hazard statements**

Causes serious eye irritation  
May cause an allergic skin reaction

**Appearance** Amber colored liquid**Physical state** viscous liquid**Odor** Mild petroleum odor**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Contaminated work clothing should not be allowed out of the workplace

**Precautionary Statements - Response**

Specific treatment (see supplemental first aid instruction on this label)  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention  
 IF ON SKIN: Wash with plenty of soap and water  
 If skin irritation or rash occurs: Get medical advice/attention  
 Wash contaminated clothing before reuse

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)****Other information**

- MAY BE HARMFUL IF SWALLOWED
- May be harmful in contact with skin
- Causes mild skin irritation
- Toxic to aquatic life with long lasting effects
- Harmful to aquatic life

Unknown Aquatic Toxicity

0.83% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Common Name** Hydrocarbon Lubricating Fluid.  
**Chemical Family** Synthetic Hydrocarbon, Petroleum hydrocarbon mixture.

| Chemical name                                                                          | CAS-No      | Weight %  | Trade secret |
|----------------------------------------------------------------------------------------|-------------|-----------|--------------|
| Petroleum distillates, hydrotreated heavy paraffinic                                   | 64742-54-7  | 78        | *            |
| Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts | 84605-29-8  | 0.85-1.68 | *            |
| Benzenesulfonic Acid, mono-C16-24-alkyl derivs., calcium salts                         | 70024-69-0  | 0.17-0.83 | *            |
| Phenol, dodecyl-, branched                                                             | 121158-58-5 | 0.02-0.15 | *            |
| 2,6-di-tert-butylphenol                                                                | 128-39-2    | 0.02-0.15 | *            |
| Toluene                                                                                | 108-88-3    | 0.002     | *            |

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

### 4. FIRST AID MEASURES

**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>   | Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water or a waterless hand cleaner. If irritation or redness develops and persists, seek medical attention. |
| <b>Inhalation</b>     | Move exposed persons to fresh air. Consult medical personnel if breathing issues occur.                                                                                                                                 |
| <b>Ingestion</b>      | Do NOT induce vomiting. Consult 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.

**Small Fires** Always use personal safety equipment. Follow appropriate personal safety procedures, and extinguishing media.

**Large Fires** Contact emergency personnel.

**Unsuitable extinguishing media** Caution: Use of water spray when fighting fire may be inefficient.

**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** 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.

**Environmental precautions**

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

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

**Methods for containment** Cover with earth, sand, or other non-combustible material followed with plastic sheets to

minimize spreading or contact with rain.

**Methods for cleaning up**

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

**Precautions for safe handling****Advice on safe handling**

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.

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

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.

**Incompatible Products**

Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters****Exposure guidelines**

This product contains the following hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

| Chemical name       | ACGIH TLV   | OSHA PEL                         | NIOSH IDLH                                                                                                  |
|---------------------|-------------|----------------------------------|-------------------------------------------------------------------------------------------------------------|
| Toluene<br>108-88-3 | TWA: 20 ppm | TWA: 200 ppm<br>Ceiling: 300 ppm | IDLH: 500 ppm<br>TWA: 100 ppm<br>TWA: 375 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 560 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**

If splashes are likely to occur, wear: Goggles. Eye/face Protection.

**Skin and body protection**

Long sleeved clothing. Protective gloves can be worn, if material comes in contact with skin wash with soap and water.

**Respiratory protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations**

Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties****Physical state**

viscous liquid

|                   |                      |                       |                          |
|-------------------|----------------------|-----------------------|--------------------------|
| <b>Appearance</b> | Amber colored liquid | <b>Odor</b>           | Mild petroleum odor      |
| <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>                  | > 93.3 °C / > 200 °F            | Based on similar products. |
| <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>             | 0.88                            |                            |
| <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>          | 100-115 @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. High energy 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. |
| <b>Eye contact</b>         | Avoid contact with eyes. May cause irritation.                                         |

**Skin contact** May cause eye/skin irritation. Prolonged skin contact may defat the skin and produce dermatitis.

**Ingestion** Do NOT taste or swallow.

| Chemical name                                                                                        | Oral LD50            | Dermal LD50              | Inhalation LC50         |
|------------------------------------------------------------------------------------------------------|----------------------|--------------------------|-------------------------|
| Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts<br>84605-29-8 | = 2000 mg/kg ( Rat ) | > 3200 mg/kg ( Rabbit )  | -                       |
| Phenol, dodecyl-, branched<br>121158-58-5                                                            | = 2100 mg/kg ( Rat ) | = 5 mL/kg ( Rabbit )     | -                       |
| 2,6-di-tert-butylphenol<br>128-39-2                                                                  | > 5000 mg/kg ( Rat ) | > 10 g/kg ( Rabbit )     | -                       |
| Toluene<br>108-88-3                                                                                  | = 2600 mg/kg ( Rat ) | = 12000 mg/kg ( Rabbit ) | = 12.5 mg/L ( Rat ) 4 h |

#### Information on toxicological effects

**Symptoms** No information available.

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

**Serious eye damage/eye irritation** Irritating to eyes.  
**Sensitization** May cause sensitization by skin contact.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** No information available.

| Chemical name                                                      | ACGIH | IARC    | NTP | OSHA |
|--------------------------------------------------------------------|-------|---------|-----|------|
| Petroleum distillates, hydrotreated heavy paraffinic<br>64742-54-7 | -     | Group 1 | -   | X    |
| Toluene<br>108-88-3                                                | -     | Group 3 | -   | -    |

**Reproductive toxicity** Product is or contains a chemical which is a known or suspected reproductive hazard.  
**Developmental toxicity** Contains ingredients that have suspected developmental hazards.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration hazard** Not Applicable.

#### Numerical measures of toxicity - Product Information

**Unknown Aquatic Toxicity** 0.83% of the mixture consists of ingredient(s) of unknown toxicity  
The following values are calculated based on chapter 3.1 of the GHS document .

## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

1.66% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical name                                                                                        | Algae/aquatic plants | Fish                                                                                                                                           | Crustacea                             |
|------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Petroleum distillates, hydrotreated heavy paraffinic<br>64742-54-7                                   | -                    | 5000: 96 h Oncorhynchus mykiss mg/L LC50                                                                                                       | 1000: 48 h Daphnia magna mg/L EC50    |
| Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts<br>84605-29-8 | -                    | 10 - 100: 96 h Pimephales promelas mg/L LC50 static 38: 96 h Pimephales promelas mg/L LC50 100: 96 h Pimephales promelas mg/L LC50 semi-static | 0.1 - 1: 48 h Daphnia magna mg/L EC50 |
| Phenol, dodecyl-, branched<br>121158-58-5                                                            | -                    | 0.14: 96 h Oncorhynchus clarki mg/L LC50                                                                                                       | -                                     |

|                                     |                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                        |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 2,6-di-tert-butylphenol<br>128-39-2 | -                                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.45: 48 h Daphnia magna mg/L EC50                                                     |
| Toluene<br>108-88-3                 | 12.5: 72 h Pseudokirchneriella subcapitata mg/L EC50 static<br>433: 96 h Pseudokirchneriella subcapitata mg/L EC50 | 11.0 - 15.0: 96 h Lepomis macrochirus mg/L LC50 static<br>14.1 - 17.16: 96 h Oncorhynchus mykiss mg/L LC50 static<br>15.22 - 19.05: 96 h Pimephales promelas mg/L LC50 flow-through<br>5.89 - 7.81: 96 h Oncorhynchus mykiss mg/L LC50 flow-through<br>50.87 - 70.34: 96 h Poecilia reticulata mg/L LC50 static<br>12.6: 96 h Pimephales promelas mg/L LC50 static<br>28.2: 96 h Poecilia reticulata mg/L LC50 semi-static<br>5.8: 96 h Oncorhynchus mykiss mg/L LC50 semi-static<br>54: 96 h Oryzias latipes mg/L LC50 static | 5.46 - 9.83: 48 h Daphnia magna mg/L EC50 Static<br>11.5: 48 h Daphnia magna mg/L EC50 |

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

| Chemical name       | Partition coefficient |
|---------------------|-----------------------|
| Toluene<br>108-88-3 | 2.65                  |

**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 |
|---------------------|-------------------|---------------------------------------------------------------------------------|------------------------|------------------------|
| Toluene<br>108-88-3 | waste number U220 | Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151 | -                      | -                      |

| Chemical name       | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes                                                                                                                                                                                                                                                                                                                                                                                                                | RCRA - K Series Wastes |
|---------------------|--------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Toluene<br>108-88-3 | -                                    | -                      | Toxic waste<br>waste number F025<br>Waste description:<br>Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. | -                      |

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 |
|---------------------|-----------------------------------|
| Toluene<br>108-88-3 | Toxic; Ignitable                  |

#### 14. TRANSPORT INFORMATION

**DOT** Not regulated

**IATA** PETROLEUM LUBRICATING OIL; NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO TI OR IATA DGR

#### 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 in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

**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:

| Chemical name      | SARA 313 - Threshold Values % |
|--------------------|-------------------------------|
| Toluene - 108-88-3 | 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 contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------|-----------------------------|------------------------|---------------------------|----------------------------|
|---------------|-----------------------------|------------------------|---------------------------|----------------------------|



|                     |         |   |   |   |
|---------------------|---------|---|---|---|
| Toluene<br>108-88-3 | 1000 lb | X | X | X |
|---------------------|---------|---|---|---|

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical name       | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ                                       |
|---------------------|--------------------------|------------------------------------|------------------------------------------|
| Toluene<br>108-88-3 | 1 lb                     | -                                  | RQ 1 lb final RQ<br>RQ 0.454 kg final RQ |

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

This product contains the following Proposition 65 chemicals:

| Chemical name      | California Prop. 65                  |
|--------------------|--------------------------------------|
| Toluene - 108-88-3 | Developmental<br>Female Reproductive |

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

| Chemical name                                                                                              | New Jersey | Massachusetts | Pennsylvania |
|------------------------------------------------------------------------------------------------------------|------------|---------------|--------------|
| Phosphorodithioic acid, mixed<br>O,O-bis(1,3-dimethylbutyl and<br>iso-Pr) esters, zinc salts<br>84605-29-8 | X          | -             | X            |
| Toluene<br>108-88-3                                                                                        | X          | X             | X            |

**U.S. EPA Label Information**

EPA Pesticide registration number Not Applicable

**16. OTHER INFORMATION**

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

Issuing Date 12-May-2015

Revision Date 12-May-2015

Revision Note

Initial Release

**Disclaimer**

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of MSDS