



Safety Data Sheet

Product identifier used on the label: DURAGARD® Diamond Plate SAE 15W-40 CI-4 Plus Engine Oil
Stock Number: DUR15W40
Revision Date: 06-10-2018
Replaces:

1. Identification

Product identifier used on the label: DURAGARD® Diamond Plate SAE 15W-40 CI-4 Plus Engine Oil
Stock Number: DUR15W40

Other means of identification:

Synonyms: No data available

Recommended use of the chemical and restrictions on use:

Recommended use: Motor Oil

Restrictions on use: Uses other than those described above

Name, address, and telephone number of the chemical manufacturer, distributor, importer, or other responsible party:

Advantage Dist. & Lubricants, LLC

3434 Marion Road SE
Rochester, MN 55904
United States of America
www.advantagelubes.com

Phone number: +01 (800) 420-1414 +01 (507) 289-5555

E-mail address: info@advantagelubes.com

Emergency phone number: CHEMTREC: +1 (800) 424-9300 International: +01 (703) 527-3887

2. Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200:

GHS Classification: Not classified as hazardous under OSHA

Hazards not otherwise classified: No data available

% unknown toxicity (Oral): 11.031145 % of the mixture consists of ingredient(s) of unknown toxicity.

% unknown toxicity (Dermal): 11.111388 % of the mixture consists of ingredient(s) of unknown toxicity.

% unknown toxicity (Inhalation Gas): 100 % of the mixture consists of ingredient(s) of unknown toxicity.

3. Composition/information on ingredients

| Chemical Name | Common name and synonyms | CAS # | % |
|---|--------------------------|-------------|-----------|
| Lubricating oils, petroleum, hydrotreated spent | No data available | 64742-58-1 | 30 - 60 |
| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts | No data available | 113706-15-3 | 0.5 - 1.5 |

One or more hazardous ingredient(s) is claimed as a trade secret under the OSHA Hazard Communication Standard. The hazards of this (these) ingredient(s) are given on this SDS.

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4. First-aid measures

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:

| | |
|--|--|
| Inhalation: | Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. |
| Eye Contact: | Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician. |
| Skin Contact: | Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists. Seek medical advice if symptoms persist. |
| Ingestion: | Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this SDS. |
| Most important symptoms/effects, acute and delayed: | None known. |
| Indication of immediate medical attention and special treatment needed, if necessary: | No additional first aid information available. |

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media:

| | |
|--|---|
| Suitable extinguishing media: | Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid. |
| Unsuitable extinguishing media: | No data available |
| Specific hazards arising from the chemical: | No data available |
| Hazardous combustion products: | Carbon monoxide, Smoke, Hydrogen sulfide, Nitrogen containing gases |
| Special protective equipment and precautions for fire-fighters: | Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Use methods for the surrounding fire. |

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Methods and materials for containment and cleaning up:

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Dispose of according to Federal, State, Local, or Provincial regulations. Used fluid should be disposed of at a recycling center.

7. Handling and storage

Precautions for safe handling:

Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Empty containers may retain product residues/ vapors. Use proper bonding and grounding during bulk product transfer. Follow all protective equipment recommendations provided in Section 8.

Conditions for safe storage, including any incompatibilities:

Safe storage conditions:

Store in a cool dry place. Isolate from incompatible materials.

Materials to Avoid/Chemical

Strong oxidizing agents

Incompatibility:

8. Exposure controls/personal protection

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available:

| Chemical component | OSHA PEL | ACGIH TLV | ACGIH STEL | IDLH |
|---|----------|-----------|------------|-------------------|
| Lubricating oils, petroleum, hydrotreated spent | 5 mg/m3 | 5 mg/m3 | 10 mg/m3 | No data available |

Appropriate engineering controls:

Use local exhaust ventilation or other engineering controls to minimize

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exposures and maintain operator comfort.

Individual protection measures, such as personal protective equipment:

Respiratory Protection:

Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.

Respirator Type(s):

None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Eye protection:

Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.

Skin protection:

Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves:

Nitrile, Neoprene

General hygiene conditions:

Follow all protective equipment recommendations provided in Section 8.

9. Physical and chemical properties

Appearance (physical state, color etc.):

Physical state:

Liquid

Color:

Brown

Odor:

Mild

Odor Threshold:

Not determined

pH:

No data available

Melting point/freezing point:

Melting Point:

No data available

Freezing point:

No data available

Initial boiling point and boiling range (°C):

150

Flash Point (°C):

211

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| Evaporation Rate: | No data available |
| Flammability (solid, gas): | No data available |
| Upper/lower flammability or explosive limits: | |
| Upper flammability or explosive limits: | = 10 |
| Lower flammability or explosive limits: | = 1 |
| Vapor pressure: | No data available |
| Vapor density: | No data available |
| Relative density: | 0.86 |
| Solubility(ies): | Negligible |
| Partition coefficient: n-octanol/water: | No data available |
| Auto-ignition temperature: | No data available |
| Decomposition Temperature: | Not determined |
| Viscosity: | 113.4 cSt @ 40°C |

10. Stability and reactivity

| | |
|---|---|
| Reactivity: | There are no known reactivity hazards associated with this product. |
| Chemical stability: | Stable under normal conditions. |
| Possibility of hazardous reactions: | None expected under standard conditions of storage. |
| Conditions to avoid (e.g., static discharge, shock, or vibration): | Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition. Moisture (will lead to product performance degradation). |
| Incompatible materials: | Strong oxidizing agents |
| Hazardous decomposition products: | Carbon monoxide, Smoke, Hydrogen sulfide, Nitrogen containing gases |

11. Toxicological information

Description of the various toxicological (health) effects and the available data used to identify those effects:

| | |
|--|-------------------|
| Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): | No data available |
| Symptoms related to the physical, chemical and toxicological | None known. |

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characteristics:

Delayed and immediate effects and also chronic effects from short- and long-term exposure:

Ingestion: Although this product has a low order of acute oral toxicity, aspiration of minute amounts into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

Skin Contact: This material is likely to be moderately irritating to skin based on animal data. Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Absorption: Likely to be practically non-toxic based on animal data.

Inhalation: No hazard in normal industrial use. Likely to be practically non-toxic based on animal data.

Eye Contact: This material is likely to be non-irritating to eyes based on animal data.

Sensitization: No data available

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

Carcinogenicity: Not expected to cause cancer. This product meets the IP-346 criteria of <3% PAH's and is not considered a carcinogen by the International Agency for Research on Cancer.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Other information: No data available

Numerical measures of toxicity (such as acute toxicity estimates):

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|------------------------|---------------------------------|-----------------|
| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts | OLD50 Rat 2600 mg/kg | Dermal LD50 Rabbit > 3160 mg/kg | |
| Lubricating oils, petroleum, hydrotreated spent | OLD50 Rat > 2000 mg/kg | Dermal LD50 Rabbit > 4480 mg/kg | |

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Is the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA:

| Chemical Name | OSHA Carcinogen | IARC Carcinogen | NTP Carcinogen |
|---|-----------------|-----------------|----------------|
| There are no components that are known or reported to cause cancer. | | | |

12. Ecological information

Ecotoxicity (aquatic and terrestrial, where available): No data available

Ecological Toxicity Data:

| Chemical Name | CAS # | Aquatic EC50 Crustacea | Aquatic ERC50 Algae | Aquatic LC50 Fish |
|--|-------------|--------------------------------|--------------------------------|--|
| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isoocetyl) esters, zinc salts | 113706-15-3 | Aquatic LC50 (48h) 5.4 mg/L | Aquatic LC50 (96h) 2.1 mg/L | Aquatic LC50 (96h) Rainbow Trout 4.5 mg/L |

Persistence and degradability: Biodegrades slowly.

Bioaccumulative potential: Bioconcentration may occur.

Mobility in soil: This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types.

Other adverse effects (such as hazardous to the ozone layer): None known.

13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging: Spent or discarded material is non-hazardous according to environmental regulations.

Contaminated packaging: Recycle containers whenever possible.

14. Transport information

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Carriage of dangerous goods by road (DOT), rail or inland waterways:

DOT Basic Description: Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO).

International carriage of dangerous goods by sea (IMDG/IMO):

UN number: Not regulated by IMDG

UN Proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group, if applicable: Not applicable

International carriage of dangerous goods by air (IATA):

UN number: Not regulated by IATA

UN Proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group, if applicable: Not applicable

Environmental hazards (e.g., Marine pollutant (Yes/No)): None.

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): No data available

Special precautions which a user needs to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises: No data available

15. Regulatory information

Safety, health and environmental regulations specific for the product in question:

TSCA Status: All components of this material are on the US TSCA Inventory or are exempt.

Regulated Components:

| Chemical Name | CAS # | CERCLA | Sara EHS | Sara 313 | U.S. HAP |
|------------------------------|------------|--------|----------|----------|----------|
| Lubricating oils, petroleum, | 64742-58-1 | N | N | N | N |

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| hydrotreated spent | | | | | |
| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts | 113706-15-3 | N | N | N | N |

| Chemical Name | CAS # | California Prop 65 - Cancer | California Prop 65 - Dev. Toxicity | California Prop 65 - Reprod fem | California Prop 65 - Reprod male |
|---|-------------|-----------------------------|------------------------------------|---------------------------------|----------------------------------|
| Lubricating oils, petroleum, hydrotreated spent | 64742-58-1 | N | N | N | N |
| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts | 113706-15-3 | N | N | N | N |

| Chemical Name | CAS # | Massachusetts RTK List | New Jersey RTK List | Pennsylvania RTK List | Rhode Island RTK List | Minnesota Hazardous Substance List |
|---|-------------|------------------------|---------------------|-----------------------|-----------------------|------------------------------------|
| Lubricating oils, petroleum, hydrotreated spent | 64742-58-1 | N | N | N | N | N |
| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts | 113706-15-3 | N | N | N | N | N |

| |
|---|
| 16. Other information, including date of preparation or last revision. |
|---|

SDS Prepared by:

HAZEMS

Revision Date:

06-10-2018

Revision Number:

8

Reason for revision:

Activated by Document Formulation Generation

References:

No data available

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Other Info:

No data available

Disclaimer:

This safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in the data sheet which we have received from outside sources and we believe the information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe manner and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.