SECTION 1: Identification of the substance/mixture and of the company/undertaking

Duragard® Diamond Synthetic® dexos1™ 100% Synthetic SAE 5W20 Motor Oil
Product Use: Applications requiring a 100% Synthetic motor oil
Product Number(s): DURDEXOS1-5/20XXX
Synonyms: Duragard® Dexos1, Duragard® Diamond Plate® Synthetic Motor Oil, Duragard® Diamond Synthetic® dexos1™ 100% SYNTHETIC 5W20

Company Identification
Advantage Dist. & Lubricants, LLC
3434 Marion RD SE
Rochester, MN 55904
United States of America
www.advantagelubes.com

Transportation Emergency Response
CHEMTREC: (800) 424-9300 US, Canada, or U.S. Virgin Islands or (703) 527-3887 all other areas.

Health Emergency
Poison Control Center: Located in the USA. 1-800-222-1222

Product Information
email: info@advantagelubes.com
Product Information: (800) 420-1414, (507) 289-5555 local
SDS Requests: (800) 420-1414, (507) 289-5555 local

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Hazardous to the aquatic environment - Chronic Category 2

2.2. Label elements
GHS Hazard Symbols

Hazard Statements
H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statements
Prevention
P273 - Avoid release to the environment.
Response
P391 - Collect spillage.
Disposal
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards
Hazards not otherwise classified:
Avoid prolonged or repeated contact with used motor oil. Used motor oil has been shown to cause skin cancer in laboratory animals.

Unknown acute toxicity (GHS-US)

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>%</th>
<th>CAS #</th>
<th>GHS Classification</th>
</tr>
</thead>
</table>
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | 90 - 99 | 72623-87-1 | Acute Tox. 4; H332
| | | | Acute Tox. 3; H331 |

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

SECTION 4: First aid measures

4.1. Description of first aid measures
Inhalation
Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.
SECTION 4: First aid measures

Eyes
None expected to be needed, however, use an eye wash to remove a chemical from your eye regardless of the level of hazard.

Skin Contact
Wash with soap and water. Get medical attention if irritation develops or persists. Seek medical advice if symptoms persist.

Ingestion
No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this SDS.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms
Not determined

4.3. Indication of any immediate medical attention and special treatment needed

Note to Doctor
Aspiration during swallowing or vomiting may severely damage the lungs. If evacuation of stomach contents is necessary, use method least likely to cause aspiration.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable and Unsuitable 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.

5.2. Special hazards arising from the substance or mixture

Fire and/or Explosion Hazards
Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.

5.3. Advice for firefighters

Fire Fighting Methods and Protection
Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Use methods for the surrounding fire.

Hazardous Combustion Products
Carbon dioxide, Carbon monoxide

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General Measures: No health affects expected from the clean up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this SDS.

6.2. Environmental precautions

Remove from water surface by skimming or with suitable absorbents. Do not use dispersants. Avoid runoff into storm sewers and ditches that lead to waterways. Do not flush to sewer.

6.3. Methods and material for containment and cleaning up

Methods for 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. P391 - Collect spillage.

6.4. Reference to other sections

Follow all protective equipment recommendations provided in Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Mildly irritating material. Avoid unnecessary exposure.

7.2. Conditions for safe storage, including any incompatibilities

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

Incompatible materials
See Section 10.

7.3. Specific end use(s)

Motor Oil

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
SAFETY DATA SHEET

Chemical Name | Occupational Exposure Limits | Value
--- | --- | ---
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | OSHA PEL | 5 mg/m³
Oil mist, mineral | OSHA PEL | 5 mg/m³
None. | OSHA STEL | 5 mg/m³
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | ACGIH TLV-TWA | 5 mg/m³
Oil mist, mineral | ACGIH TLV-TWA | 5 mg/m³
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | ACGIH STEL | 10 mg/m³
Oil mist, mineral | ACGIH STEL | 10 mg/m³
None. | IDLH | 
None. | OSHA PEL-Skin Notation | 

8.2. Exposure controls

**Engineering Measures**
Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

**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**
No special requirements under normal industrial use.

**Skin Protection**
Where use can result in skin contact, practice good personal hygiene and wear impervious gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

**Gloves**
Nitrile, Polyvinyl chloride, Impervious rubber

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical State</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Amber</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Mild</td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Freezing point</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Boiling Point</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Flash Point (°C)</strong></td>
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</tr>
<tr>
<td><strong>Flash Point Method</strong></td>
<td>COC</td>
</tr>
<tr>
<td><strong>Evaporation Rate</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Upper Flammable/Explosive Limit, % in air</strong></td>
<td>Not established</td>
</tr>
<tr>
<td><strong>Lower Flammable/Explosive Limit, % in air</strong></td>
<td>Not established</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Vapor Density</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Relative Density</strong></td>
<td>0.85</td>
</tr>
<tr>
<td><strong>Solubility in Water</strong></td>
<td>Negligible; 0-1%</td>
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<tr>
<td><strong>Octanol/Water Partition Coefficient</strong></td>
<td>Not determined</td>
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<tr>
<td><strong>Autoignition Temperature</strong></td>
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<tr>
<td><strong>Decomposition Temperature</strong></td>
<td>Not determined</td>
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<tr>
<td><strong>Viscosity (°C)</strong></td>
<td>50.93</td>
</tr>
</tbody>
</table>

Duragard® Mag1 5W20 DEXOS 1
SAFETY DATA SHEET

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties
Volatile organic compound (VOC) content and percentage of volatiles
Volatile organic compound (VOC) content and percentage of volatiles
0.000000

SECTION 10: Stability and reactivity
10.1. Reactivity
No data available.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.
10.4. Conditions to avoid
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).
10.5. Incompatible materials
Strong oxidizing agents
10.6. Hazardous decomposition products
No data available.

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Ingestion Toxicity
No hazard in normal industrial use. Estimated to be > 5.0 g/kg. Estimated to be > 5.0 g/kg.
Skin Contact
This material is estimated to be slightly irritating (Primary Irritation Index is 0.5 - 3.0 [rabbits]). Can cause minor skin irritation, defatting, and dermatitis.
Absorption
Likely to be practically non-toxic based on animal data.
Inhalation Toxicity
Harmful! Can cause systemic damage (see “Target Organs”). Likely to be practically non-toxic based on animal data.
Eye Contact
This material is estimated to be non-irritating eyes (Draize score < 15 [rabbits]). No hazard in normal industrial use.
Sensitization
Non-hazardous under Respiratory Sensitization category.
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.
Reproductive and Developmental Toxicity
No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Specific target organ toxicity-Single exposure
Non-hazardous under Specific Target Organ Systemic Toxicity Single Exposure category.
Specific target organ toxicity-Repeated exposure
Non-hazardous under Specific Target Organ Systemic Toxicity Repeated Exposure category.
Long-Term (Chronic) Health Effects
No data available.
Aspiration toxicity
Non-hazardous under Aspiration category.
Other information
No data available.

Agents Classified by IARC Monographs
Not applicable IARC Group 1
Not applicable IARC Group 2A
Not applicable IARC Group 2B

National Toxicity Program (NTP) Status
Not applicable Known Human Carcinogen
Not applicable Reasonably Anticipated To Be A Human Carcinogen
SAFETY DATA SHEET

SECTION 12: Ecological information

12.1. Toxicity
Acute Aquatic ecotoxicity: Non-hazardous under Aquatic Acute Environment category.
Chronic Aquatic ecotoxicity: H411 - Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability
Biodegrades slowly.

12.3. Bioaccumulative potential
Bioconcentration may occur.

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

12.5. Results of PBT and vPvB assessment
No data available.

12.6. Other adverse effects
Not determined

SECTION 13: Disposal considerations

13.1. Waste treatment methods

**Disposal Methods**
Dispose of according to Federal, State, Local, or Provincial regulations. Recycle used oil.

**Waste Disposal Code(s)**

**Waste Description for Spent Product**
Spent or discarded material is non-hazardous according to environmental regulations.

**Contaminated packaging:**
Recycle containers whenever possible.
Recycle containers whenever possible.

SECTION 14: Transport information

**DOT**
- **Proper Shipping Name:** No data available.
- **UN Number:** No data available.
- **Hazard Class:** No data available.
- **Packing Group:** No data available.

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

**IMDG**
- **Proper Shipping Name:** No data available.
- **UN Number:** No data available.
- **Hazard Class:** No data available.
- **Packing Group:** No data available.
- **Marine Pollutant:** No data available.

**IATA**
- **Proper Shipping Name:** No data available.
- **UN Number:** No data available.
- **Hazard Class:** No data available.
- **Packing Group:** No data available.

SECTION 15: Regulatory information

**Chemical Inventories**

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

**U.S. State Restrictions:**
Not applicable

**WHMIS:**
Uncontrolled product according to WHMIS classification criteria.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Regulation</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>None.</td>
<td>CERCLA</td>
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<tr>
<td>None.</td>
<td>SARA 313</td>
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<td>None.</td>
<td>SARA EHS</td>
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<tr>
<td>None.</td>
<td>TSCA 12b</td>
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</table>
SAFETY DATA SHEET

U.S. State Regulations

<table>
<thead>
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<th>Chemical Name</th>
<th>Regulation</th>
<th>CAS #</th>
<th>%</th>
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<tbody>
<tr>
<td>None.</td>
<td>California Prop 65-</td>
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<tr>
<td>None.</td>
<td>Cancer</td>
<td></td>
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<tr>
<td>None.</td>
<td>California Prop 65-</td>
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</tr>
<tr>
<td>None.</td>
<td>Dev. Toxicity</td>
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</tr>
<tr>
<td>None.</td>
<td>California Prop 65-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>Reprod -fem</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>California Prop 65-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>Reprod-male</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>Massachusetts RTK List</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>New Jersey RTK List</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>Pennsylvania RTK List</td>
<td></td>
<td></td>
</tr>
<tr>
<td>None.</td>
<td>Rhode Island RTK List</td>
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<tr>
<td>None.</td>
<td>Minnesota Hazardous Substance List</td>
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HMIS Ratings:

<table>
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<tr>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
<th>PPE</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>0</td>
<td>B</td>
</tr>
</tbody>
</table>

NFPA Ratings:

<table>
<thead>
<tr>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

KEY: 0 - Least 1 - Slight 2 - Moderate 3 - High 4 – Extreme

SECTION 16: Other information

Revision Date 3/24/2016 12:25:00 PM
Supersedes: 3/18/2016 9:24:47 AM
Other Info No data available.
References No data available.

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