



# SAFETY DATA SHEET

## 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

Chemical Name	%	CAS #	GHS Classification
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.

# SAFETY DATA SHEET

## SECTION 4: First aid measures

<b>Eyes</b>	None expected to be needed, however, use an eye wash to remove a chemical from your eye regardless of the level of hazard.
<b>Skin Contact</b>	Wash with soap and water. Get medical attention if irritation develops or persists. Seek medical advice if symptoms persist.
<b>Ingestion</b>	No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this SDS.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	
<b>Symptoms</b>	Not determined
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	
<b>Note to Doctor</b>	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

<b>5.1. Extinguishing media</b>	
<b>Suitable and Unsuitable Extinguishing Media:</b>	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.
<b>5.2. Special hazards arising from the substance or mixture</b>	
<b>Fire and/or Explosion Hazards</b>	Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.
<b>5.3. Advice for firefighters</b>	
<b>Fire Fighting Methods and Protection</b>	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Use methods for the surrounding fire.
<b>Hazardous Combustion Products</b>	Carbon dioxide, Carbon monoxide

## SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>General Measures:</b>	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.
<b>6.2. Environmental precautions</b>	
	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.
<b>6.3. Methods and material for containment and cleaning up</b>	
<b>Methods for cleaning up:</b>	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.
<b>6.4. Reference to other sections</b>	
	Follow all protective equipment recommendations provided in Section 8.

## SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Mildly irritating material. Avoid unnecessary exposure.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Store in a cool dry place. Isolate from incompatible materials.
<b>Incompatible materials</b>	See Section 10.
<b>7.3. Specific end use(s)</b>	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	
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

<b>Engineering Measures</b>	Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.
<b>Respiratory Protection</b>	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.
<b>Respirator Type(s)</b>	None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.
<b>Eye Protection</b>	No special requirements under normal industrial use.
<b>Skin Protection</b>	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.
<b>Gloves</b>	Nitrile, Polyvinyl chloride, Impervious rubber

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical State</b>	Liquid
<b>Color</b>	Amber
<b>Odor</b>	Mild
<b>Odor threshold</b>	Not determined
<b>pH</b>	Not determined
<b>Freezing point</b>	Not determined
<b>Boiling Point</b>	Not determined
<b>Flash Point (°C)</b>	220
<b>Flash Point Method</b>	COC
<b>Evaporation Rate</b>	No data available.
<b>Upper Flammable/Explosive Limit, % in air</b>	Not established
<b>Lower Flammable/Explosive Limit, % in air</b>	Not established
<b>Flammability (solid, gas)</b>	Not applicable
<b>Vapor pressure</b>	Not determined
<b>Vapor Density</b>	No data available.
<b>Relative Density</b>	0.85
<b>Solubility in Water</b>	Negligible; 0-1%
<b>Octanol/Water Partition Coefficient</b>	Not determined
<b>Autoignition Temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined
<b>Viscosity(°C)</b>	50.93

### 9.2. Other information

# 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 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.  
**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

<b>DOT</b>	<b>Proper Shipping Name:</b>	No data available.
	<b>UN Number:</b>	No data available.
	<b>Hazard Class:</b>	No data available.
	<b>Packing Group:</b>	No data available.
<b>DOT Basic Description</b>	Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO).	
<b>IMDG</b>	<b>Proper Shipping Name:</b>	No data available.
	<b>UN Number:</b>	No data available.
	<b>Hazard Class:</b>	No data available.
	<b>Packing Group:</b>	No data available.
	<b>Marine Pollutant:</b>	No data available.
<b>IATA</b>	<b>Proper Shipping Name:</b>	No data available.
	<b>UN Number:</b>	No data available.
	<b>Hazard Class:</b>	No data available.
	<b>Packing Group:</b>	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.

Chemical Name	Regulation	CAS #	%
None.	CERCLA		
None.	SARA 313		
None.	SARA EHS		
None.	TSCA 12b		

# SAFETY DATA SHEET

## U.S. State Regulations

Chemical Name	Regulation	CAS #	%
None.	California Prop 65- Cancer		
None.	California Prop 65- Dev. Toxicity		
None.	California Prop 65- Reprod -fem		
None.	California Prop 65- Reprod-male		
None.	Massachusetts RTK List		
None.	New Jersey RTK List		
None.	Pennsylvania RTK List		
None.	Rhode Island RTK List		
None.	Minnesota Hazardous Substance List		

### HMIS Ratings:

Health: 1  
 Fire: 1  
 Reactivity: 0  
 PPE: B

### NFPA Ratings:

Health: 1  
 Fire: 1  
 Reactivity: 0

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

## **SECTION 16: Other information**

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