



SAFETY DATA SHEET

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

Duragard® Diamond Plate® Synthetic Blend Hydraulic Tractor Fluid

Product Use: SEMI SYNTHETIC Universal Hydraulic Tractor Fluid

Product Number(s): DURUNIHYDXX

Synonyms: Duragard® Universal Hydraulic Tractor Fluid, Duragard® Diamond Plate® UNI Tractor Fluid

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 or (703) 527-3887

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

Skin Sensitisation Category 1

Reproductive Toxicity Category 2

Hazardous to the aquatic environment - Acute Category 3

2.2. Label elements

GHS Hazard Symbols



Signal Word

Warning

Hazard Statements

H317 - May cause an allergic skin reaction.

H361 - Suspected of damaging fertility or the unborn child.

H402 - Harmful to aquatic life.

Precautionary Statements

Prevention

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

Contaminated work clothing must not be allowed out of the workplace.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P281 - Use personal protective equipment as required.

Response

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P321 - Specific treatment (see section 4).

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

Storage

P405 - Store locked up.

Disposal

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

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2.3. Other hazards

Hazards not otherwise classified: Avoid prolonged or repeated skin contact with used fluid.

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	10 - 30	72623-87-1	Acute Tox. 4; H332 Acute Tox. 3; H331
Naphthalene	0.5 - 1.5	91-20-3	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Acute Tox. 4; H302 Carc. 2; H351 Flam. Sol. 1; H228
Ethyl benzene	0.5 - 1.5	100-41-4	Acute Tox. 4; H332 Flam. Liq. 2; H225
Toluene	0.1 - 1	108-88-3	Asp. Tox. 1; H304 Acute Tox. 4; H302 Acute Tox. 4; H332 Flam. Liq. 1; H224 Repr. 2; H361 Skin Irrit. 2; H315 STOT RE 2; H373
Benzene	0.1 - 1	71-43-2	STOT SE 3; H335, H336 Asp. Tox. 1; H304 Acute Tox. 4; H332 Acute Tox. 4; H302 Carc. 1A; H350 Eye Irrit. 2; H319 Flam. Liq. 2; H225 Muta. 1B; H340 Skin Irrit. 2; H315 STOT RE 1; H372

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. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.
Eyes	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	Do not induce vomiting and seek medical attention immediately. Provide medical care provider with this SDS. Contains a harmful substance. Seek medical help immediately and contact a poison information service. Drink two glasses of water or milk to dilute.

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.

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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 monoxide, Smoke

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General Measures: No health effects 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

Do not flush to sewer.

Avoid runoff into storm sewers and ditches that lead to waterways.

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.

Avoid runoff into storm sewers and ditches that lead to waterways.

Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.

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. {EMSFORM_06GHS_CLEAN}

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)

Universal Tractor Fluid

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chemical Name

Oil mist, mineral

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

Naphthalene

ethylbenzene

Toluene

Benzene

Occupational Exposure Limits

OSHA PEL

OSHA PEL

OSHA PEL

OSHA PEL

OSHA PEL

OSHA PEL

Value

5 mg/m³

5 mg/m³

10 ppm TWA; 50 mg/m³ TWA

100 ppm TWA; 435 mg/m³ TWA

200 ppm TWA

10 ppm TWA (applies to industry)

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chemical Name	Occupational Exposure Limits	Value
		segments exempt from the benzene standard at 29 CFR 1910.1028); 1 ppm TWA
Naphthalene	OSHA STEL	15 ppm STEL; 75 mg/m ³ STEL
ethylbenzene	OSHA STEL	125 ppm STEL; 545 mg/m ³ STEL
Toluene	OSHA STEL	150 ppm STEL; 560 mg/m ³ STEL
Benzene	OSHA STEL	1 ppm STEL
Oil mist, mineral	ACGIH TLV-TWA	5 mg/m ³
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	ACGIH TLV-TWA	5 mg/m ³
Naphthalene	ACGIH TLV-TWA	10 ppm TWA
ethylbenzene	ACGIH TLV-TWA	20 ppm TWA
Toluene	ACGIH TLV-TWA	20 ppm TWA
Benzene	ACGIH TLV-TWA	0.5 ppm TWA
Oil mist, mineral	ACGIH STEL	10 mg/m ³
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	ACGIH STEL	10 mg/m ³
Naphthalene	ACGIH STEL	15 ppm STEL
Benzene	ACGIH STEL	2.5 ppm STEL
Naphthalene	IDLH	250 ppm IDLH
ethylbenzene	IDLH	800 ppm IDLH (10% LEL)
Toluene	IDLH	500 ppm IDLH
Benzene	IDLH	500 ppm IDLH
None.	OSHA PEL-Skin Notation	
Naphthalene	ACGIH TLV-Skin Designation	Skin - potential significant contribution to overall exposure by the cutaneous route
Benzene	ACGIH TLV-Skin Designation	Skin - potential significant contribution to overall exposure by the cutaneous route

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

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

Neoprene, Nitrile, Polyvinyl chloride, Impervious rubber

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Liquid
Color	Brown
Odor	Not determined
Odor threshold	Not determined

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

pH	Not determined
Freezing point	Not determined
Boiling Point	Not determined
Flash Point (°C)	223
Flash Point Method	COC
Evaporation Rate	Not determined
Upper Flammable/Explosive Limit, % in air	= 10
Lower Flammable/Explosive Limit, % in air	= 1
Flammability (solid, gas)	Not applicable
Vapor pressure	<0.20
Vapor Density	4.42
Relative Density	0.87
Solubility in Water	Negligible; 0-1%
Octanol/Water Partition Coefficient	Not determined
Autoignition Temperature	Not determined
Decomposition Temperature	Not determined
Viscosity(°C)	60.74

9.2. Other information

Volatile organic compound (VOC) content and percentage of volatiles	0.000000
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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	Carbon monoxide, Smoke

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Ingestion Toxicity	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. Likely to be practically non-toxic by ingestion based on animal data.
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 Toxicity	No hazard in normal industrial use. Likely to be practically non-toxic based on animal data.
Eye Contact	This material is likely to be severely irritating to eyes based on animal data. Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.
Sensitization	Non-hazardous under Respiratory Sensitization category. No data available to indicate product or components may be a skin sensitizer.
Mutagenicity	Mutagenic affects in humans may occur.
Carcinogenicity	Contains a known human carcinogen.

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SECTION 11: Toxicological information

Reproductive and Developmental Toxicity	Contains a substance that is a possible reproductive system hazard based on animal studies at doses that could be encountered in the workplace.
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

Benzene	IARC Group 1
Not applicable	IARC Group 2A
Naphthalene	IARC Group 2B
ethylbenzene	IARC Group 2B
Vinyl acetate	IARC Group 2B

National Toxicity Program (NTP) Status

Benzene	Known Human Carcinogen
Naphthalene	Reasonably Anticipated To Be A Human Carcinogen

SECTION 12: Ecological information

12.1. Toxicity

Acute Aquatic ecotoxicity: Non-hazardous under Aquatic Acute Environment category.

Chronic Aquatic ecotoxicity: Non-hazardous under Aquatic Chronic Environment category.

12.2. Persistence and degradability

Biodegrades quickly.

12.3. Bioaccumulative potential

Bioconcentration may occur.

12.4. Mobility in soil

This material is expected to have high mobility in soil. It absorbs weakly 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.

Recycle containers whenever possible.

Recycle containers whenever possible.

Recycle containers whenever possible.

Recycle containers whenever possible.

Recycle containers whenever possible.

SECTION 14: Transport information

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SECTION 14: Transport information

DOT	Proper Shipping Name:	No data available.
	UN Number:	Not regulated for road transport
	Hazard Class:	No data available.
	Packing Group:	No data available.
DOT Basic Description	Not classified as hazardous for transport (DOT, TDG, IMO/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.
IATA	Marine Pollutant:	No data available.
	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

U.S. State Restrictions:	Not applicable
WHMIS:	Uncontrolled product according to WHMIS classification criteria.

Chemical Name	Regulation	CAS #	%
Naphthalene	CERCLA	91-20-3	0.5 - 1.5
ethylbenzene	CERCLA	100-41-4	0.5 - 1.5
Benzene, methyl-	CERCLA	108-88-3	0.1 - 1
Benzene	CERCLA	71-43-2	0.1 - 1
Naphthalene	SARA 313	91-20-3	0.5 - 1.5
ethylbenzene	SARA 313	100-41-4	0.5 - 1.5
Toluene	SARA 313	108-88-3	0.1 - 1
Benzene	SARA 313	71-43-2	0.1 - 1
None.	SARA EHS		
None.	TSCA 12b		

U.S. State Regulations

Chemical Name	Regulation	CAS #	%
Naphthalene	California Prop 65- Cancer	91-20-3	0.5 - 1.5
ethylbenzene	California Prop 65- Cancer	100-41-4	0.5 - 1.5
Benzene	California Prop 65- Cancer	71-43-2	0.1 - 1
Toluene	California Prop 65- Dev. Toxicity	108-88-3	0.1 - 1
Benzene	California Prop 65- Dev. Toxicity	71-43-2	0.1 - 1
None.	California Prop 65- Reprod -fem		
Benzene	California Prop 65- Reprod-male	71-43-2	0.1 - 1
Naphthalene	Massachusetts RTK List	91-20-3	0.5 - 1.5
ethylbenzene	Massachusetts RTK List	100-41-4	0.5 - 1.5
Toluene	Massachusetts RTK List	108-88-3	0.1 - 1
Benzene	Massachusetts RTK List	71-43-2	0.1 - 1
Naphthalene	New Jersey RTK List	91-20-3	0.5 - 1.5

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Chemical Name	Regulation	CAS #	%
ethylbenzene	New Jersey RTK List	100-41-4	0.5 - 1.5
Toluene	New Jersey RTK List	108-88-3	0.1 - 1
Benzene	New Jersey RTK List	71-43-2	0.1 - 1
Naphthalene	Pennsylvania RTK List	91-20-3	0.5 - 1.5
Benzene, ethyl-	Pennsylvania RTK List	100-41-4	0.5 - 1.5
Benzene, methyl-	Pennsylvania RTK List	108-88-3	0.1 - 1
Benzene	Pennsylvania RTK List	71-43-2	0.1 - 1
None.	Rhode Island RTK List		
Naphthalene	Minnesota Hazardous Substance List	91-20-3	0.5 - 1.5
ethylbenzene	Minnesota Hazardous Substance List	100-41-4	0.5 - 1.5
Toluene	Minnesota Hazardous Substance List	108-88-3	0.1 - 1
Benzene	Minnesota Hazardous Substance List	71-43-2	0.1 - 1

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

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References 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.