

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

Duragard® Industrial R&O Turbine 32 Circulating Oil

Product Use: Applications requiring a high pressure anti-wear oil

**Product Number(s):** DURROT32

Synonyms: Duragard® R&O Turbine 32 Oil, Duragard® Diamond Plate® R&O 32

**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

Not classified under GHS

#### 2.2. Label elements

2.3. Other hazards

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

classified:

**Unknown acute toxicity (GHS-US)** 

#### **SECTION 3: Composition/information on ingredients**

Chemical Name	%	CAS#	GHS Classification
Petroleum distillates, hydrotreated heavy paraffinic	100	64742-54-7	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. **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** Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately.

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



#### **SECTION 4: First aid measures**

contents is necessary, use method least likely to cause aspiration.

## **SECTION 5: Firefighting measures**

5.1. Extinguishing media

Suitable and Unsuitable
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 Material may be ignited only if preheated to temperatures above the high flash point, for example in

**Hazards** a fire.

5.3. Advice for firefighters

Fire Fighting Methods and Do not enter fire area without proper protection including self- contained breathing apparatus and

**Protection** full protective equipment. Use methods for the surrounding fire.

**Hazardous Combustion** Carbon monoxide, Smoke

**Products** 

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

General Measures: No data available.

#### 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.

## 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.

#### 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

No special handling instructions due to toxicity.

#### 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)

Hydraulic Oil

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

Chemical NameOccupational Exposure LimitsValueOil mist, mineralOSHA PEL5 mg/m3Oil mist, mineralACGIH TLV-TWA5 mg/m3Oil mist, mineralACGIH STEL10 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



8.2. Exposure controls

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.

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

**Skin Protection** Not normally considered a skin hazard. Where use can result in skin contact, practice good personal

hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and

when leaving work.

Gloves Neoprene, Nitrile

## **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Physical StateLiquidColorAmberOdorMild

Odor threshold Not determined
pH Not determined
Freezing point Not determined
Boiling Point Not determined

Flash Point 204 Flash Point Method COC

**Evaporation Rate** Not determined

**Upper Flammable/Explosive** = 10

Limit, % in air

**Lower Flammable/Explosive** = 1

Limit, % in air

Flammability (solid, gas) Not applicable

Vapor pressure <0.20

Vapor Density Not determined

**Relative Density** 0.86

**Solubility in Water** Negligible; 0-1% **Octanol/Water Partition** Not determined

Coefficient

**Autoignition Temperature** Not determined **Decomposition Temperature** Not determined

Viscosity(°C) 32.38

9.2. Other information

Volatiles, % by weight 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

10.6. Hazardous

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

terials Strong oxidizing agents Carbon monoxide, Smoke

decomposition products

## **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** Likely to be non-irritating to skin based on animal data. No hazard in normal industrial use.



## **SECTION 11: Toxicological information**

**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 non-irritating to eyes based on animal data. No hazard in normal

industrial use.

**Sensitization** Non-hazardous under Respiratory Sensitization category. No data available to indicate product or

components may be a skin sensitizer.

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**No data available to indicate product or any components present at greater than 0.1% may cause

**Developmental Toxicity** birth defects.

Specific target organ Non-hazardous under Specific Target Organ Systemic Toxicity Single Exposure category.

toxicity-Single exposure

Specific target organ toxicity-Repeated exposure

Non-hazardous under Specific Target Organ Systemic Toxicity Repeated Exposure category.

**Aspiration toxicity** Non-hazardous under Aspiration category. **Other information** No data available.

#### **Agents Classified by IARC Monographs**

Arsenic IARC Group 1
Ethylene oxide IARC Group 1
Benzene IARC Group 1
Not applicable IARC Group 2A
Ethyl acrylate IARC Group 2B
1,4-Dioxane IARC Group 2B
Propylene oxide IARC Group 2B

## National Toxicity Program (NTP) Status

Arsenic Known Human Carcinogen
Ethylene oxide Known Human Carcinogen
Benzene Known Human Carcinogen

1,4-Dioxane Reasonably Anticipated To Be A Human Carcinogen Propylene oxide 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 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.



## **SECTION 13: Disposal considerations**

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

Description

# **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		
Diphenylamine	SARA 313	122-39-4	0.01 - 0.1
Toluene	SARA 313	108-88-3	0.001- 0.01
Ethyl acrylate	SARA 313	140-88-5	0.001-0.01
Arsenic	SARA 313	7440-38-2	<10ppm
1,4-Dioxane	SARA 313	123-91-1	<10ppm
Ethylene oxide	SARA 313	75-21-8	<10ppm
Benzene	SARA 313	71-43-2	<10ppm
Propylene oxide	SARA 313	75-56-9	<10ppm
None.	SARA EHS		
None.	TSCA 12b		

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U.S. State Regulations			
Chemical Name	Regulation	CAS#	%
Ethyl acrylate	California Prop 65-	140-88-5	0.001- 0.01
	Cancer		
1,4-Dioxane	California Prop 65-	123-91-1	<10ppm
	Cancer		
Ethylene oxide	California Prop 65-	75-21-8	<10ppm
	Cancer		
Benzene	California Prop 65-	71-43-2	<10ppm
	Cancer		
Propylene oxide	California Prop 65-	75-56-9	<10ppm
	Cancer		
Toluene	California Prop 65- Dev.	108-88-3	0.001- 0.01
	Toxicity	0	4.0
Ethylene oxide	California Prop 65- Dev.	75-21-8	<10ppm
_	Toxicity		4.0
Benzene	California Prop 65- Dev.	71-43-2	<10ppm
Ed. 1	Toxicity	<b>55.21</b> .0	1.0
Ethylene oxide	California Prop 65-	75-21-8	<10ppm
T-1 1 11	Reprod -fem	75.21.0	.10
Ethylene oxide	California Prop 65-	75-21-8	<10ppm
D	Reprod-male	71 42 2	-10
Benzene	California Prop 65-	71-43-2	<10ppm
	Reprod-male		



Chemical Name Regulation CAS# %

None. Massachusetts RTK List
None. New Jersey RTK List
None. Pennsylvania RTK List
None. Rhode Island RTK List
None. Minnesota Hazardous

HMIS Ratings:Health:0Health:0Fire:1Fire:1Reactivity:0Reactivity:0

PPE: B

Substance List

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

## **SECTION 16: Other information**

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References ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CFR: Code of Federal Regulations

DOT: United States Department of Transportation

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

HMIS: Hazardous Materials Identification System IARC: International Agency for Research on Cancer IATA: International Air Transportation Association IDLH: Immediately Dangerous to Life or Health IMDG: International Maritime Dangerous Goods NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

RTK: Right-to-Know

SARA: Superfund Amendments and Reauthorization Act

STEL: Short-term Exposure Limit TLV: Threshold limit value

TSCA: Toxic Substances Control Act

TWA: Time weighted average

**UN: United Nations** 

WHMIS: Workplace Hazardous Materials Information System

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