Safety Data Sheet

Product identifier used on the label: DURAGARD® INDUSTRIAL R&O TURBINE 68
Stock Number: DURTURBINE68
Revision Date: 01-17-2019
Replaces:

1. Identification

Product identifier used on the label: **DURAGARD® INDUSTRIAL R&O TURBINE 68**
Stock Number: DURTURBINE68

Other means of identification:
Synonyms: No data available

Recommended use of the chemical and restrictions on use:
Recommended use: DŜI·ℕ 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
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Rochester, MN 55904
United States of America
www.advantagelubes.com

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

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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: Hazardous to the aquatic environment - Chronic Category 4

Hazard Statements: May cause long lasting harmful effects to aquatic life

Precautionary Statements:
Prevention: Avoid release to the environment.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not otherwise classified: No data available

% unknown toxicity (Inhalation Gas): 100 % of the mixture consists of ingredient(s) of unknown toxicity.
% unknown toxicity (Inhalation Vapor): 50.499945 % of the mixture consists of ingredient(s) of unknown toxicity.
% unknown toxicity (Inhalation Dust): 50.499945 % 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

Distillates residue, low-boiling	No data available	68477-31-6	0.1 - 1

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.

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: 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.

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

Most important symptoms/effects, acute and delayed:

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Avoid release to the environment.

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: No special handling instructions due to toxicity. 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 Incompatibility: Strong oxidizing agents

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 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:	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
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
Flash Point (°C):	211
Evaporation Rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	
Upper flammability or explosive limits:	Not established
Lower flammability or explosive limits:	Not established
Vapor pressure:	No data available
Vapor density:	No data available

Relative density:	0.87
Solubility(ies):	Negligible; 0-1%
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition Temperature:	Not determined
Viscosity:	67.82 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):	Skin contact, Inhalation, Ingestion, Eye contact
Symptoms related to the physical, chemical and toxicological characteristics:	No data available

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. Likely to be practically non-toxic by ingestion based on animal data.
Skin Contact:	Likely to be non-irritating to skin based on animal data.
Absorption:	Likely to be practically non-toxic based on animal data.
Inhalation:	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:	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.
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:	None known.

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

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Distillates residue, low-boiling	Oral LD50 Rat 2551 mg/kg		
Lubricating oils, petroleum, hydrotreated spent	Oral LD50 Rat > 2000 mg/kg	Dermal LD50 Rabbit > 4480 mg/kg	

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): Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.

Ecological Toxicity Data:

Chemical Name	CAS #	Aquatic EC50 Crustacea	Aquatic ERC50 Algae	Aquatic LC50 Fish
No data available				

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:	Dispose of contents and container in accordance with local/regional/national/international regulations.
Contaminated packaging:	Recycle containers whenever possible.

14. Transport information

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	None.

pollutant (Yes/No)):

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, hydrotreated spent	64742-58-1	N	N	N	N
Distillates residue, low-boiling	68477-31-6	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
Distillates residue, low-boiling	68477-31-6	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

Distillates residue, low-boiling	68477-31-6	N	N	N	N	N

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

SDS Prepared by:	HAZEMS
Revision Date:	01-17-2019
Revision Number:	23
Reason for revision:	Activated by Document Formulation Generation
References:	No data available
Other Info:	No data available
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