# SAFETY DATA SHEET

ADVANTAGE ® TURBINE #320



Section 1 -	Identification			
1.1 Product Identifiers		1.4 Supplier Information		
	DVANTAGE ® TURBINE #320 50-055, 450-005	Advanced Lubrication Specialties 420 Imperial Court Bensalem, PA 19020 United States		
1.2 Product Usage		: 215-214-2114		
Recommended Usage : ⊤ Restricted Usage : N		: 215-214-2118 : sds@advancedlubes.com technical@advancedlubes.com sales@advancedlubes.com		
1.3 Emergency Support				
Emorgonoy oupport	CHEMTREC Jnited States/Canada +1(800) 424-9300			

Section 2 -	Hazards Identification
2.1 Classification of th	e Substance or the Mixture
GHS Rating(s)	: No Classified Hazards
Signal Word	: Not Applicable
2.2 Label Elements	

Precautionary	: P201	Obtain Special Instructions Before Use.	
	P202	Do Not Handle Until All Safety Precautions Are Understood.	
	P281	Use Personal Protective Equipment As Required.	
Response	: P308	If Exposed Or Concerned: Get Medical Advice/attention.	
Storage	: P405	Store Locked Up.	
Disposal	: P501	Dispose Of Container According To Regional Regulations.	

#### 2.3 Other Hazards

# Section 3 - Composition / Information on Ingredients

#### 3.1 Substance Details

Chemical Name	CAS #	%Weight
ANTIOXIDANT, NON HAZARDOUS AT FORMULATED %	Antioxidant	1.0
BASE OIL SEVERELY REFINED	64742-65-0	12.0
RESIDUAL OILS, PETROLEUM, SOLVENT-DEWAXED	64742-62-7	87.0

Products containing mineral oil with less than 3% DMSO extract as measured by IP-346.

Section 4 -	First Aid Measures	
4.1 First Aid Measures		
Eye Contact	: Immediately flush eyes with plenty of water occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for atleast 20 minutes. Get Medical Attention.	
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth to mouth resuscitation. Maintain an open airway. Get medical attention if symptoms occur.	
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. get medical attention if symptoms occur.	
4.2 Symptoms & Effects		
To Physician	: Treat symptomatically. Contact poison specialist if product has been ingested.	
Specific Treatment	: No Specific Treatment.	
4.3 Medical Attention		
Protection of First Aiders	<ul> <li>No action should be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.</li> </ul>	
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 - Fire Fighting

5.1 Extinguishing Media		
Suitable Media Unsuitable Media	: CO2, Dry chemical, or Foam. Water can be used to cool and protect product. Do not use water jet as an extinguisher, it will spread the fire.	
Specific hazards arising from this product	: When heated, hazardous gases may be released including: sulfur dioxide. A solid strear water will spread the burning material. Material creates a special hazard because it float water. This material creates a special hazard because it floats on water. This material is harmful to aquatic life. Any fire water contaminated with this material must be contained prevented from being discharged to any waterway, sewer or drain.	
5.3 Firefighters Advice		
Special protective equipment	: Fire Equipment Information: Fire-fighters should wear appriovirate protective equipment and sel contained breathing apparatus(SCBA) with a full face -piece operated in positive pressure mode.	

### Section 6 - Accidental Release Measures

#### 6.1 Personal precautions, protective equipment

**General Measures** : No health affects expect from the cleanup of this material if contact can be avoided. Follow personal protect equipment recommendations found in section 8 of this SDS.

#### 6.2 Environmental Precautions

**Non-Emergency Personnel :** Avoid dispersal of spilled material and runoff and contact with soil , waterways, drains and sewers. Inform authorities if the product has caused environmental pollution Water Polluting Material may be harmful to the environment if released in large quantities.

#### 6.3 Materials & Methods to Contain and Cleanup

**Reference Section 8** : Follow all protective equipment recommendations provided in Section 8.

- **Spill Control Measures** : 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.
- **Containment and Cleanup**: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillage's with noncombustible, absorbent material e.g. sand earth vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via licensed waste disposal contractor. Contaminated absorbent material may pose the same threat hazard as the spilled product.

Section 7 -	Handling & Storage
7.1 Safe Handling	
Personal Protective Equipment	: Put on appropriate personal protective equipment (see section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, keep lid tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
7.2 Safe Storage	
Required conditions	: Odorous and toxic fumes may form from the decomposition of this product if stored at temperatures in excess of 113 deg F (45 deg C) for extended periods of time or if heat sources in excess of 250 deg F (121 deg C) are used. Store away from incompatible materials. See section 10 for incompatible materials.

### 7.3 Specific End Use

#### **Designed Purpose** : This product is designed for use as a Turbine Oil

Section	8 - Exposure Control	
8.1 United CAS	States Exposure Limits Chemical Name	Exposure Limits Source
64742-65-0	Distillates, petroleum, solvent-dewaxed	5mg/m3

### 8.2 Exposure Controls

Engineering Controls	: Material should be handled in enclosed vessels and equipment, in which case general room ventilation should be sufficient. Local exhaust ventilation should be used at points where dust, mist, vapors or gases can escape into the room air. No special requirements under ordinary conditions of use and with adequate ventilation.
Enviromental Exposure Controls	: General room ventilation should be satisfactory. Local exhaust ventilation may be necessary if misting is generated.
Hygeine Measures	: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.
Eye / Face Protection	: If contact is likely, safety glasses with side shields are recommended.
Skin / Hand Protection	: Butyl rubber. Use nitrile or neoprene gloves. Use good industrial hygiene practices. In case of skin contact, wash hands and arms with soap and water. Use caution when opening manway covers of storage and transportation containers. 3-nitroaniline crystals may be present on the interior surface of these openings. 3-nitroaniline is toxic by dermal exposure.
Respiratory Protection	: Use a properly fitted air purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this a necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### 9.1 Information On Basic Physical and Chemical Properties

•		
: Liquid		
:C&B		
: Characteristic of Petroleum		
: No Data Available		
:243C		
: No Data Available		
: No Data Available		
: No Data Available		
: Not Applicable		
:<1 mm Hg		
: > 1		
: 0.89		
: Not Determined		
: Not Determined		
: Negligible, 0-1%		
: No Data Available		
: 355 cst		
: 27 cst		

## Section 10 - Stability & Reactivity

10.1 Material Analysis	
Reactivity	: No Data Available
Chemical stability	: Stable Under Normal Circumstances.
Possibility of hazardous react	ions : Hazardous polymerization will not occur.
10.2 Environmental	
Conditions to avoid	: Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition pro	<ul> <li>carbon monoxide, Smoke, Carbon monoxide, sulfur oxides, aldehydes, and other petroleum decomposition products in the case of incomplete combustion.</li> <li>Oxides of nitrogen, phosphorus, calcium, copper, magnesium, sodium, and hydrogen sulfide may also be present</li> </ul>

# Section 11 - Toxicological Information

11.1 Toxicological Effects				
Ingestion Toxicity	: No hazard in normal industria	al use.		
Skin Contact : This material is likely to be slightly irritating to skin based on animal data.			data.	
Inhalation Toxicity	: Non-hazardous under Respiratory Sensitization category.			
Eye Contact : The material is likely to be irritating to eyes based on animal data.				
11.2 Inhalation Toxicity Data	Test	Value	Species	Source

CAS	Chemical Name	Test	Value	Species	Source
64742-62-7	Residual oils, petroleum, solvent-dewaxed	Inhalation	2.18mg/L	4h Rat	NLM_CIP

### Section 11 - Toxicological Information Continued

11.3 Dermal & Other Toxicity Data CAS Chemical Name	Test	Value	Species	Source
64742-62-7 Residual oils, petroleum, solvent-dewaxed	LC50	5000mg/L	96h Oncorhynchus	IUCLID
64742-65-0 Distillates, petroleum, solvent-dewaxed heavy paraffinic	LC50	5000mg/L	96h Oncorhynchus	IUCLID

Sensitizer Mutagenicity	<ul> <li>No data available to indicate product or components may be a skin sensitizer.</li> <li>No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.</li> </ul>
Carcinogenicity	: Not expected to cause cancer. This product meets the IP-346 criteria of <3%.
Reproductive Toxicity	: No data available if components greater than 0.1% may cause birth defects.

# Section 12 - Ecological Information

12.1 Aquatic Toxicity	
Acute Aquatic ecotoxicity	: Non-hazardous under Aquatic Acute Environment category.
Chronic Aquatic ecotoxicity	: Non-hazardous under Aquatic Chronic Environment category.
Persistence and degradability	: Biodegrades slowly.
Bioaccumulative potential	: Bioconcentration may occur.
Mobility in soil	: This material is expected to have essentially no mobility in soil.
Results of PBT and vPvB assessment	: Not determined.
Other adverse effects	: No data available.

12.2 Ecological Data					
CAS	Chemical Name	Test	Value	Species Source	
64742-62-7	Residual oils, petroleum, solvent-dewaxed	EC50	1000mg/L	48h Daphnia magna IUCLID	
64742-65-0	Distillates, petroleum, solvent-dewaxed heavy paraffinic	EC50	1000mg/L	48h Daphnia magna IUCLID	

### Section 13 - Disposal Considerations

13.1	Waste treatment
Was	te treatment methods
Disp	osal Methods
Was	te Disposal
Cont	taminated packaging

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

- : Use material is non-hazardous according to environmental regulations.
- : Recycle containers whenever possible!

# Section 14 - Transportation Information

14.1 U.S. Department of Transportation	OT)		
14.2. Shipping Description	: If shipped by land in a packaging having a capacity of 3,500 gallons or more, the provisions of 49 CFR, Part 130 apply. (Contains oil) International Maritime Dangerous Goods (IMDG)		
14.2. DOT Compliance Note	U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23 & 25. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable International Civil Aviation Org. / International Air Transport Assoc. (ICAO/IATA)		
14.2. DOT Compliance Requirement	: U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23 & 24		
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Section 15	- Regulatory Information	
Regulatory Agency (TSCA) Toxic Substance Control Ac	: All components are either listed or not regulated US TSCA Inventory.	<b>Chemical List Status</b> 64742-65-0 64742-62-7
WHMIS Hazard Class	: None	
Canada CPR	: This product has been classified in accordance with the hazard criteria Controlled Products Regulations (CPR) and the SDS contains all the information required by the Regulations.	
CERCLA Sections 302, 313, 372 311, 312	: This material does not contain reportable chemicals. : Acute Health Hazard No Pressure Hazard No Fire Hazard No Chronic Health Hazard No Reactive Hazard No	0
New Jersey Right to Know (NJ RTK)	This material does not contain reportable chemicals.	
Massachusets Right to Know (MA RTK)	This material does not contain reportable chemicals.	
Pennsylavania Right to Know (PA RTK)	This material does not contain reportable chemicals.	
Rhode Island Right to Know (RI RTK)	This material does not contain reportable chemicals.	

### Section 16 - Other Information

ACGIH	American Conference of Governmental Industrial Hygienists	NFPA: HEALTH
CFR	Code of Federal Regulations	FLAMMABILITY
DOT	United States Department of Transportation	INSTABILITY
GHS	Globally Harmonized System of Classification and Labeling of Chemicals	SPECIAL
NIOSH	National Institute for Occupational Safety and Health	
OSHA	Occupational Safety and Health Administration	
PEL	Permissible Exposure Limit	
RTK	Right-to-Know	
SARA	Short-term Exposure Limit	1
TSCA	Toxic Substances Control Act	
WHMIS	Workplace Hazardous Materials Information System	<b></b>

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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. Internal Use: 3E9

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