# SAFETY DATA SHEET ADVANTAGE ® XHD 10 SER III, CF/CF-2



Section 1 - Identification	
1.1 Product Identifiers	1.4 Supplier Information
Product Name         : ADVANTAGE ® XHD 10 SER III, CF/CF-2           Product Code(s)         : 540-000, 540-055, 540-005, 540-330	Advanced Lubrication Specialties 420 Imperial Court Bensalem, PA 19020 United States
1.2 Product Usage         Recommended Usage       : Engine Oil         Restricted Usage       : Not Intended for any other usage	Phone: 215-214-2114Fax: 215-214-2118Email: sds@advancedlubes.com technical@advancedlubes.com sales@advancedlubes.com
1.3 Emergency Support	
Emergency Support : CHEMTREC	

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

United States/Canada +1(800) 424-9300

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.

#### Hazards not otherwise classified (HNOC) : Avoid prolonged or repeated contact with motor oil. Use of good hygiene practices will reduce the likelihood of potential health effects. When exposed wash areas with soap and water and launder contaminated clothing.

**Other Hazards** 

2.3

# Section 3 - Composition / Information on Ingredients

#### 3.1 Substance Details

Chemical Name	CAS #	%Weight
LUBRICANT BASE OIL (PETROLEUM)	64742-54-7	75.0
BASE OIL SEVERELY REFINED	64742-65-0	5.0
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISOPROPYL) ESTERS, ZINC SALTS	84605-29-8	1.0
RESIDUAL OILS, PETROLEUM, SOLVENT-DEWAXED	64742-62-7	5.0

### INERT The remaining percentage are not listed as Physical or Health Hazards (29 CFR 1910.1200) 14.0

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	5
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 stream of water will spread the burning material. Material creates a special hazard because it floats on water. This material creates a special hazard because it floats on 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 and 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 Engine Oil

Section	8 - Exposure Control		
8.1 United CAS	States Exposure Limits Chemical Name	Exposure Limits	Source
64742-54-7	Distillates, petroleum, hydrotreated heavy	5mg/m3	IUCLID
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.

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

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Physical state	: Liquid
Color	: B&C
Odor	: Characteristic of Petroleum
Odor threshold	: No Data Available
рН	: No Data Available
Freezing Point	: No Data Available
Boiling Point / Range	: No Data Available
Flash Point COC	:215C
Evaporation rate:	: No Data Available
Upper Explosive Limits (% air)	: No Data Available
Lower Explosive Limits (% air)	: No Data Available
Flammability (solid, gas)	: Not Applicable
Vapor pressure	:<1 mm Hg
Vapor density (air=1)	: > 1
Relative Density	: 0.87
Auto-ignition temperature	: Not Determined
Decomposition temperature	: Not Determined
Solubility in water	: Negligible, 0-1%
Partition coefficient, n-octanol/water	: No Data Available
Viscosity @ 40C	: 36 cst
Viscosity @ 100C	:6 cst

#### **Stability & Reactivity** Section 10

10.1 Material Analysis	
Reactivity	: No Data Available
Chemical stability	: Stable Under Normal Circumstances.
Possibility of hazardous reactions	: 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 products	: Carbon monoxide, Smoke, Carbon monoxide, sulfur oxides, aldehydes, and other petroleum decomposition products in the case of incomplete combustion. Oxides of nitrogen, phosphorus, calcium, copper, magnesium, sodium, and hydrogen sulfide may also be present

#### **Toxicological Information** Section 11 -

11.1 Toxicological Effects					
Ingestion Toxicity	: No hazard in normal ir	ndustrial us	e.		
Skin Contact	: This material is likely to be slightly irritating to skin based on animal 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

Chemical Name 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
64742-54-7 Distillates, petroleum, hydrotreated heavy paraffinic	LC50	5000mg/L	96h Oncorhynchus	IUCLID
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
84605-29-8 Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl	and <b>LiS5p</b> ropyl)	10mg/L	96h Pimephales	IUCLID
84605-29-8 Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl	and <b>LiSōp</b> ropyl)	38mg/L	96h Pimephales	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 assessme	nt : Not determined.
Other adverse effects	: No data available.

12.2 Ecological Data						
CAS	Chemical Name	Test	Value		Species	Source
64742-54-7	Distillates, petroleum, hydrotreated heavy paraffinic	EC50	1000mg/L	48h	Daphnia magna	IUCLID
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
84605-29-8	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl a	an <b>EdCi<b>50</b>prop</b>	yl)0.1mg/L	48h	Daphnia magna	IUCLID

# Section 13 - Disposal Considerations

13.1 Waste treatment	
Waste treatment methods	: Dispose of according to Federal, State, Local, or Provincial regulations.
Disposal Methods	: Recycle used oil.
Waste Disposal	: Use material is non-hazardous according to environmental regulations.
Contaminated packaging	: Recycle containers whenever possible!

# Section 14 - Transportation Information

14.1 U.S. Department of Transportation	(DOT)				
14.2. Shipping Description	<ul> <li>If shipped by land in a packaging having a capacity of 3,500 gallons or more, th provisions of 49 CFR, Part 130 apply. (Contains oil) International Maritime Dangerous Goods (IMDG)</li> </ul>				
14.2. DOT Compliance Note	Transport in b	ompliance requirements may apply. See 49 CFR 171.22, 23 & 25. bulk according to Annex II of MARPOL 73/78 and the IBC Code Not nternational Civil Aviation Org. / International Air Transport Assoc.			
14.2. DOT Compliance Requirement	: U.S. DOT cor	npliance requirements ma	ay apply. See 49 CFR 171.	22, 23 & 24	
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Section 15	- Regulatory Information	
Regulatory Agency (TSCA) Toxic Substance Control A	: All components are either listed or not regulated US TSCA Inventory.	Chemical List Status 64742-54-7
Substance Control A		64742-65-0 84605-29-8 64742-62-7
WHMIS Hazard Class	s : 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 Chronic Health Hazard No Reactive Hazard No	No
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		0
WHMIS	Workplace Hazardous Materials Information System	<b></b> _	$\checkmark$

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