



Compliant SDS for GHS: HazCom 2012 / United States; WHMIS 2015 / Canada

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SAFETY DATA SHEET

Heavy-Duty Synthetic Diesel Oil

		Date Version	: 10/01/2016 : 1
GHS product identifier	: Heavy-Duty Synthetic Diesel Oil		
Code	: ADO		
Product type	: Liquid.		
Identified uses	: Diesel Engine Oil. Not to be misted.		
Manufacturer	: AMSOIL INC. One AMSOIL Center Superior, WI 54880 Tel: +1 715-392-7101		
Initial Supplier (Canada)	: AMSOIL INC. Bordner, Ladner, Gervais Scotia Plaza, 40 King St W Toronto, ON, Canada M5H 3Y4 Tel: +1 416-367-6547		
Emergency telephone number (with hours of operation)	: CHEMTREC: Within USA and Canada: 1-800-424-9300; Outside USA and Canada: +1 703-741-5970 (collect calls a (24/7)	accepted)	

Section 2. Hazards identification

OSHA/HCS status	: This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).		
Classification of the substance or mixture	: AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3		
GHS label elements			
Signal word	: No signal word.		
Hazard statements	: Harmful to aquatic life with long lasting effects.		
Precautionary statements			
Prevention	: Avoid release to the environment.		
Response	: Not applicable.		
Storage	: Not applicable.		
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. 		
Hazards not otherwise classified (HNOC)			
Physical hazards not otherwise classified (PHNOC)	: None known.		

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Health hazards not otherwise classified (HHNOC)

: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

CAS number/other identifiers			
CAS number	: Not applicable.	: Not applicable.	
Product code : ADO			
Ingredient name		%	CAS number
bis(Nonylphenyl)amine		1 - 5	36878-20-3
Zinc Dialkyldithiophosphate		1 - 5	84605-29-8
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts		1 - 5	-
Diphenylamine		0.1 - 1	122-39-4
Alkylated phenol		0 - 0.1	121158-58-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary 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 at least 20 minutes. Get medical attention if irritation occurs.
Inhalation	 Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Maintain an open airway. Get medical attention if symptoms occur.
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effect	<u>s</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.

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Skin contact	: No known significant effects or critical hazards.		
Ingestion	: No known significant effects or critical hazards.		
Over-exposure signs/symptoms			
Eye contact	: No known significant effects or critical hazards.		
Inhalation	: No known significant effects or critical hazards.		
Skin contact	: No known significant effects or critical hazards.		
Ingestion	: No known significant effects or critical hazards.		
Indication of immedia	te medical attention and special treatment needed, if necessary		

Notes to physician	: Treat symptomatically.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No special protection is required.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective actions for fire-fighters	: No special protection is required.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	: Put on appropriate personal protective equipment.		
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".		

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Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains
	and sewers. Inform the relevant authorities if the product has caused environmental
	pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to
	the environment if released in large quantities.

Methods and materials for containment and cleaning up

Spill : 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 spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling		
Protective measures	ct with eyes, skin and clothing. Avoid brenvironment. Keep in the original container atible material, kept tightly closed when r	er or an approved alternative made from a
Advice on general occupational hygiene	g, drinking and smoking should be prohib ed, stored and processed. Workers sho ng and smoking. See also Section 8 for sures.	uld wash hands and face before eating,
Conditions for safe storage, including any incompatibilities	in accordance with local regulations. Sta sunlight in a dry, cool and well-ventilated Section 10) and food and drink. Keep co for use. Containers that have been ope ht to prevent leakage. Do not store in un- inment to avoid environmental contamina	d area, away from incompatible materials ntainer tightly closed and sealed until ned must be carefully resealed and kept labeled containers. Use appropriate

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Under conditions which may generate mists, the following additional exposure limits are recommended: ACGIH TLV TWA: 5 mg/m³; STEL: 10 mg/m³.

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Ingredient name		Exposure limits		
Diphenylamine		ACGIH TLV (United States, 3/2015). TWA: 10 mg/m ³ 8 hours. NIOSH REL (United States, 10/2013). TWA: 10 mg/m ³ 10 hours.		
<u>Canada</u>				
Occupational exposure lim	<u>iits</u>			
None.				
Appropriate engineering controls	: Good general ventila contaminants.	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.		
Environmental exposure controls		Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.		
ndividual protection meas	ures			
Hygiene measures	eating, smoking and Appropriate techniqu Wash contaminated	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.		
Eye/face protection	assessment indicate gases or dusts. If co	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.		
Skin protection				
Hand protection		Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.		
Body protection	performed and the ris	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Other skin protection	based on the task be	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Respiratory protection	: Not required under n	ormal conditions of use.		

Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Brown.
Odor	: Mild hydrocarbon.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: -42°C (-43.6°F)

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Boiling point	ι.	Not available.
Boiling point	- 1	
Flash point	4	Open cup: 226°C (438.8°F) [Cleveland.]
Evaporation rate	1	Not available.
Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	4	Not available.
Vapor density	4	Not available.
Relative density	1	0.8514
Solubility	4	Not available.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
Viscosity	:	Kinematic: 0.152 cm²/s (15.2 cSt) (100°C) Kinematic: 0.902 cm²/s (90.2 cSt) (40°C)
Volatility	:	Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials.

Section 11. Toxicological information

Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
Zinc Dialkyldithiophosphate	LD50 Oral	Rat	3.2 g/kg	-
Diphenylamine	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	1120 mg/kg	-

Irritation/Corrosion

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There is no data available.

Sensitization

There is no data available.

Carcinogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
Diphenylamine	Category 2	Not determined	Not determined

Aspiration hazard

There is no data available.

Information on the likely routes of exposure	: Eye contact. Inhalation. Ingestion.
Potential acute health effect	<u>s</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the ph	vsical, chemical and toxicological characteristics
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
<u>Delayed and immediate effe</u> Short term exposure	cts and also chronic effects from short and long term exposure
Potential immediate effects	: No known significant effects or critical hazards.
Detential deleved offecte	
Potential delayed effects	: No known significant effects or critical hazards.
Long term exposure	: No known significant effects or critical hazards.
	No known significant effects or critical hazards.No known significant effects or critical hazards.
Long term exposure Potential immediate	
Long term exposure Potential immediate effects	No known significant effects or critical hazards.No known significant effects or critical hazards.
Long term exposure Potential immediate effects Potential delayed effects	No known significant effects or critical hazards.No known significant effects or critical hazards.
Long term exposure Potential immediate effects Potential delayed effects Potential chronic health eff	 No known significant effects or critical hazards. No known significant effects or critical hazards.
Long term exposure Potential immediate effects Potential delayed effects <u>Potential chronic health eff</u> General	 No known significant effects or critical hazards. No known significant effects or critical hazards. iects No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

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Fertility effects

: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

R	Route	ATE value
C	Dral	225352.1 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Diphenylamine	Acute EC50 2.17 mg/L Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute EC50 0.31 mg/L Fresh water Acute LC50 2.2 ppm Fresh water Chronic NOEC 0.37 mg/L Fresh water	Daphnia - Daphnia magna Fish - Oncorhynchus mykiss Algae - Pseudokirchneriella subcapitata - Exponential growth phase	48 hours 96 hours 72 hours

Persistence and degradability

There is no data available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
bis(Nonylphenyl)amine	3.64 to 7.02	1730	high
Zinc Dialkyldithiophosphate	0.56	-	low
Diphenylamine	3.5	151.36	low
Alkylated phenol	6.1	1601	high

Mobility in soil

Soil/water partition coefficient (Koc)

: There is no data available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid

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dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT	TDG	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

AERG : Not applicable

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

Section 15. Regulatory information

U.S. Federal regulations	: United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 307: Zinc Dialkyldithiophosphate
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed

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DEA List II Chemicals : Not listed (Essential Chemicals)

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Name	hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Zinc Dialkyldithiophosphate	No.	No.	No.	Yes.	No.
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	No.	No.	No.	Yes.	No.
Diphenylamine	No.	No.	No.	Yes.	Yes.
Alkylated phenol	No.	No.	No.	Yes.	Yes.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Zinc Dialkyldithiophosphate	84605-29-8	1 - 5
Supplier notification	Zinc Dialkyldithiophosphate	84605-29-8	1 - 5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts

: None of the components are listed.

- **New York**
- **New Jersey**
- : None of the components are listed.
- : The following components are listed: Zinc Dialkyldithiophosphate
- Pennsylvania
- : None of the components are listed.

California Prop. 65

No products were found.

Canada

Canadian lists

Canadian NPRI

- : The following components are listed: Zinc Dialkyldithiophosphate
- **CEPA Toxic substances**
- **Canada inventory**
- : None of the components are listed.
- : All components are listed or exempted.

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Section 16. Other information

History

Date of issue mm/dd/yyyy	: 10/01/2016
Version	: 1
Prepared by	: AMSOIL INC.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.