

FREE CATALOG



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

SAVE UP TO 25%

## SAFETY DATA SHEET

## Heavy-Duty Synthetic Diesel Oil

| Section 1. Identification                                  |  | Date<br>Version | : 10/01/2016<br>: 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.<br>One AMSOIL Center<br>Superior, WI 54880<br>Tel: +1 715-392-7101   |                 |                     |
| Initial Supplier<br>(Canada)                               | : AMSOIL INC.<br>Bordner, Ladner, Gervais<br>Scotia Plaza, 40 King St W<br>Toronto, ON, Canada M5H 3Y4<br>Tel: +1 416-367-6547 |                 |                     |
| Emergency telephone<br>number (with hours of<br>operation) | : CHEMTREC: Within USA and Canada: 1-800-424-9300;<br>Outside USA and Canada: +1 703-741-5970 (collect calls a<br>(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<br>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 clas                              | sified (HNOC)   |
| Physical hazards not<br>otherwise classified<br>(PHNOC) | : None known.   |

Date of issue : 10/01/2016

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Health hazards not
otherwise classified
(HHNOC)
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: 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.                   |   |  |
| Product code   | : ADO                               |   |  |
| Ingredient name  |                                     | %   | CAS number   |
| bis(Nonylphenyl)amine<br>Zinc Dialkyldithiophosphate<br>Benzenesulfonic acid, mono-<br>Diphenylamine<br>Alkylated phenol | C16-24-alkyl derivs., calcium salts | 1 - 5<br>1 - 5<br>1 - 5<br>0.1 - 1<br>0 - 0.1 | 36878-20-3<br>84605-29-8<br>-<br>122-39-4<br>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  | <ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower<br/>eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20<br/>minutes. Get medical attention if irritation occurs.</li> </ul>  |
|--------------|---|
| 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 effects | <u>5</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.      |
| <u>Over-exposure signs/sympt</u> | <u>oms</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.      |
|                                  |  |
| Indication of immediate medi     | cal attention and special treatment needed, if necessary |
| Notes to physician               | Troat aumatamatically                                    |

| 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<br>Suitable extinguishing<br>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:<br>carbon dioxide<br>carbon monoxide<br>nitrogen oxides   |
| Special protective actions<br>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, protect  | Personal precautions, protective equipment and emergency procedures   |  |  |  |
|--------------------------------|---|--|--|--|
| For non-emergency<br>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". |  |  |  |

# **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  | tact with eye<br>environmen<br>ipatible mate                  | ate personal protective equipment (see Section 8). Do not ingest. Avoid<br>es, skin and clothing. Avoid breathing vapor or mist. Avoid release to<br>t. Keep in the original container or an approved alternative made from a<br>erial, kept tightly closed when not in use. Empty containers retain<br>and can be hazardous. Avoid contact with used product. Do not reuse                                  |
| Advice on general occupational hygiene                             | dled, stored  | and smoking should be prohibited in areas where this material is<br>and processed. Workers should wash hands and face before eating,<br>oking. See also Section 8 for additional information on hygiene  |
| Conditions for safe storage,<br>including any<br>incompatibilities | ct sunlight ir<br>Section 10<br>ly for use. (<br>ght to preve | ance with local regulations. Store in original container protected from<br>a dry, cool and well-ventilated area, away from incompatible materials<br>) and food and drink. Keep container tightly closed and sealed until<br>Containers that have been opened must be carefully resealed and kept<br>nt leakage. Do not store in unlabeled containers. Use appropriate<br>avoid environmental contamination. |

## 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/m<sup>3</sup>; STEL: 10 mg/m<sup>3</sup>.

**United States** 

| Ingredient name                    | 1   | Exposure limits   |  |
|------------------------------------|---|---|--|
| Diphenylamine                      |   | ACGIH TLV (United States, 3/2015).<br>TWA: 10 mg/m <sup>3</sup> 8 hours.<br>NIOSH REL (United States, 10/2013).<br>TWA: 10 mg/m <sup>3</sup> 10 hours.  |  |
| <u>Canada</u>                      |   |   |  |
| Occupational exposure lim          | <u>its</u>  |   |  |
| None.                              |   |   |  |
| Appropriate engineering controls   | : Good general ventilation sho contaminants.                | Good general ventilation should be sufficient to control worker exposure to airborne contaminants.  |  |
| Environmental exposure<br>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          | <u>ires</u>   |   |  |
| Hygiene measures                   | eating, smoking and using th<br>Appropriate techniques shou | ace thoroughly after handling chemical products, before<br>e lavatory and at the end of the working period.<br>Id be used to remove potentially contaminated clothing.<br>before reusing. Ensure that eyewash stations and safety<br>kstation location.   |  |
| Eye/face protection                | assessment indicates this is gases or dusts. If contact is  | 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<br>worn at all times when handling chemical products if a risk assessment indicates this is<br>necessary.   |  |
| Body protection                    |   | nt for the body should be selected based on the task being lved and should be approved by a specialist before   |  |
| Other skin protection              |   | y additional skin protection measures should be selected<br>ormed and the risks involved and should be approved by a<br>s product.  |  |
| Respiratory protection             | : Not required under normal co                              | •   |  |

## Section 9. Physical and chemical properties

| oon. |
|------|
|      |
|      |
| -)   |
|      |

| <b>Boiling point</b>                         |   | Not available.  |
|--|---|---|
| Boiling point                                |   |   |
| 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                               | 1 | Not available.  |
| Vapor density                                | 1 | Not available.  |
| Relative density                             | : | 0.8514  |
| Solubility                                   | : | Not available.  |
| Partition coefficient: n-<br>octanol/water   | : | Not available.  |
| Auto-ignition temperature                    | : | Not available.  |
| Decomposition temperature                    | : | Not available.  |
| Viscosity                                    | : | Kinematic: 0.152 cm²/s (15.2 cSt) (100°C)<br>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.                          |
| Hazardous decomposition products   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## 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

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 effects               |   |
| 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.           |
|  |   |
|  | sical, 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.           |
| Deleved and immediate offer                  | to and also always affects from always and laws forms are     |
|  | ts and also chronic effects from short and long term exposure |
| Short term exposure                          | No known cignificant offects or critical beyonds              |
| Potential immediate<br>effects               | : No known significant effects or critical hazards.           |
| Potential delayed effects                    | : No known significant effects or critical hazards.           |
| Long term exposure                           | C C C C C C C C C C C C C C C C C C C                         |
| Potential immediate<br>effects               | : No known significant effects or critical hazards.           |
|  | No known aignificant offecto or critical hazarda              |
| Potential delayed effects                    | : No known significant effects or critical hazards.           |
| Potential chronic health effe                |   |
| General                                      | : No known significant effects or critical hazards.           |
| Carcinogenicity                              | : No known significant effects or critical hazards.           |
| Mutagenicity                                 | : No known significant effects or critical hazards.           |
| Teratogenicity                               | : No known significant effects or critical hazards.           |
| <b>Developmental effects</b>                 | : 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

| Route | ATE value      |
|-------|----------------|
| Oral  | 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 -<br>Exponential growth phase  | 72 hours                         |
|                         | Acute EC50 0.31 mg/L Fresh water<br>Acute LC50 2.2 ppm Fresh water<br>Chronic NOEC 0.37 mg/L Fresh water | Daphnia - Daphnia magna<br>Fish - Oncorhynchus mykiss<br>Algae - Pseudokirchneriella subcapitata -<br>Exponential growth phase | 48 hours<br>96 hours<br>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<br>shipping name    | -              | -              | -              | -              |
| Transport<br>hazard class(es) | -              | -              | -              | -              |
| Packing group                 | -              | -              | -              | -              |
| Environmental<br>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.<br>Clean Water Act (CWA) 307: Zinc Dialkyldithiophosphate |
|---|---|
| Clean Air Act Section 112<br>(b) Hazardous Air<br>Pollutants (HAPs) | : Not listed  |
| Clean Air Act Section 602<br>Class I Substances                     | : Not listed  |
| Clean Air Act Section 602<br>Class II Substances                    | : Not listed  |
| DEA List I Chemicals<br>(Precursor Chemicals)                       | : Not listed  |

#### **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<br>release of<br>pressure |     | Immediate<br>(acute)<br>health<br>hazard | Delayed<br>(chronic)<br>health<br>hazard |
|--|--------|----------------------------------|-----|--|--|
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts | No.    | No.                              | No. | Yes.                                     | No.                                      |
|  | No.    | No.                              | No. | Yes.                                     | No.                                      |
|  | No.    | No.                              | No. | Yes.                                     | Yes.                                     |
|  | No.    | No.                              | No. | Yes.                                     | Yes.                                     |

#### **SARA 313**

|                                    | Product name                | CAS number | %     |
|------------------------------------|-----------------------------|------------|-------|
| Form R - Reporting<br>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.

Date of issue : 10/01/2016

ADO

## 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.