



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

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## SAFETY DATA SHEET

## Synthetic 12 TBN SAE 15W-40 Premium Heavy Duty Diesel & Marine Motor Oil

Section 1. Identit	<b>Date</b> : 11/15/2016 <b>Version</b> : 7
GHS product identifier Code	: Synthetic 12 TBN SAE 15W-40 Premium Heavy Duty Diesel & Marine Motor Oil : AME
Product type	: Liquid.
Identified uses	: Lubricating 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 accepted) (24/7)

# Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>	
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	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>	
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 ide	<u>ntifiers</u>		
CAS number	: Not applicable.		
Product code	: AME		
Ingredient name		%	CAS number
bis(Nonylphenyl)amine		1 - 5	36878-20-3
Zinc Dialkyldithiophosphate		1-5	84605-29-8
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	<ul> <li>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.</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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.		
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.		

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<ul> <li>Ingestion</li> <li>Wash out mouth with water. Remove dentures if any. Remove victim to frekeep at rest in a position comfortable for breathing. If material has been switche exposed person is conscious, give small quantities of water to drink. Steep set person feels sick as vomiting may be dangerous. Do not induce volumess directed to do so by medical personnel. If vomiting occurs, the head kept low so that vomit does not enter the lungs. Get medical attention if adveffects persist or are severe. Never give anything by mouth to an unconscion of unconscious, place in recovery position and get medical attention immediated maintain an open airway. Loosen tight clothing such as a collar, tie, belt or work to be added to be added</li></ul>	allowed and op if the omiting should be verse health ous person. ately.
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#### Most important symptoms/effects, acute and delayed

<u>ets</u>
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
<u>ptoms</u>
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
dical attention and special treatment needed, if necessary
<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
: No specific treatment.
: No action shall 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.

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	: In a fire or if heated, a pressure increase will occur and the container may burst. 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.

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Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
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, protecti	ve 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".
	: 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 con	tainment 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

# Protective measures : 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, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Avoid contact with used product. Do not reuse container.

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Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to 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	Exposure limits
Diphenylamine	ACGIH TLV (United States, 3/2015). TWA: 10 mg/m <sup>3</sup> 8 hours. NIOSH REL (United States, 10/2013). TWA: 10 mg/m <sup>3</sup> 10 hours.

## <u>Canada</u>

**Occupational exposure limits** 

None.

Appropriate engineering controls	ood general ventilation should be sufficient to control worken ontaminants.	er exposure to airborne
Environmental exposure controls	nissions from ventilation or work process equipment shoul ey comply with the requirements of environmental protection	

#### **Individual protection measures**

Hygiene measures	: 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	: 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	

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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	<ul> <li>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.</li> </ul>
Other skin protection	<ul> <li>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.</li> </ul>
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	1	Liquid.
Color	1	Brown.
Odor	1	Mild hydrocarbon.
Odor threshold	1	Not available.
рН	1	Not available.
Melting point	1	-38°C (-36.4°F)
Boiling point	1	Not available.
Flash point	1	Open cup: 228°C (442.4°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	1	0.866
Solubility	1	Not available.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
Viscosity	:	Kinematic: 0.154 cm²/s (15.4 cSt) (100°C) Kinematic: 1.129 cm²/s (112.9 cSt) (40°C)
Volatility	:	Not available.



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# 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

## Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Zinc Dialkyldithiophosphate Diphenylamine	LD50 Oral LD50 Dermal LD50 Oral	Rabbit	3.2 g/kg >5000 mg/kg 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	Category	Target organs
Diphenylamine	Category 2	Not determined

## Aspiration hazard

There is no data available.

## Information on the likely

: Dermal contact. Eye contact. Inhalation. Ingestion.

routes of exposure

Potential acute health effects

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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 phy	sic	al, chemical and toxicological characteristics
Eye contact	1	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.
Delayed and immediate effect	ts	and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate	1	No known significant effects or critical hazards.
effects		
Potential delayed effects	4	No known significant effects or critical hazards.
Long term exposure		
Potential immediate	4	No known significant effects or critical hazards.
effects		
Potential delayed effects		No known significant effects or critical hazards.
Potential chronic health effe	ect	<u>s</u>
General	4	No known significant effects or critical hazards.
Carcinogenicity	1	No known significant effects or critical hazards.
Mutagenicity	1	No known significant effects or critical hazards.
Teratogenicity	1	No known significant effects or critical hazards.
<b>Developmental effects</b>	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.

## Numerical measures of toxicity

1	Acute toxicity estimates	
	Route	ATE value
	Oral	230880.2 mg/kg

# Section 12. Ecological information

**Toxicity** 



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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	Daphnia - Daphnia magna	48 hours
	Acute LC50 2.2 ppm Fresh water Chronic NOEC 0.37 mg/L Fresh water	Fish - Oncorhynchus mykiss Algae - Pseudokirchneriella subcapitata -	96 hours 72 hours
		Exponential growth phase	

#### 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	-	Iow
Diphenylamine	3.5	151.36	Iow
Alkylated phenol	6.1	1601	high

<u>Mobility in soil</u>	
Soil/water partition coefficient (Koc)	: There is no data available.
Mobility	: There is no data available.
Other adverse effects	: No known significant effects or critical

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

hazards.

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	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
DEA List II Chemicals (Essential Chemicals)	: Not listed
SARA 302/304	
Composition/information	on ingredients
No products were found. SARA 304 RQ	: Not applicable.



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#### SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Name	hazard	Sudden release of pressure	Reactive	(acute)	Delayed (chronic) health hazard
	No.	No.	No.	Yes.	No.
	No.	No.	No.	Yes.	Yes.
	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	: None of the components are listed.
New Jersey	: The following components are listed: Zinc Dialkyldithiophosphate
Pennsylvania	: None of the components are listed.
California Prop. 65	
No products were found.	
<u>Canada</u>	

<u>Canadian lists</u>	
Canadian NPRI	: The following components are listed: Zinc Dialkyldithiophosphate
CEPA Toxic substances	: None of the components are listed.
Canada inventory	: All components are listed or exempted.

## Section 16. Other information

: 11/15/2016
: 04/15/2016
: 7
: 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.

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