

### **SAFETY DATA SHEET**

## 10W-30 Synthetic Formula 4-Stroke® Marine Oil

## **Section 1. Identification**

Date : 02/28/2014

Version: 5.X

GHS product identifier : 10W-30 Synthetic Formula 4-Stroke® Marine Oil

Code : WCT
Product type : Liquid.

**Identified uses** 

4-Stroke Marine Oil.

Supplier's details : AMSOIL INC.

One AMSOIL Center Superior, WI 54880

**Emergency telephone** number (with hours of

operation)

: CHEMTREC, U.S.: 1-800-424-9300 International: +1-703-527-3887

(24/7)

## Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and

available for employees and other users of this product.

Classification of the substance or mixture

: Not classified.

**GHS label elements** 

Signal word : No signal word.

**Hazard statements**: No known significant effects or critical hazards.

**Precautionary statements** 

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.
Hazards not otherwise : None known.

classified

## 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 : WCT

**United States** 

Ingredient name	%	CAS number
Base Oil(s) Dinonyl diphenylamine Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)	60 - 100 1 - 5 1 - 5	Mixture 36878-20-3 2215-35-2

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. Get medical attention if irritation

occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. 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.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position

comfortable for breathing. 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. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact
 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.
 No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### Indication of immediate 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

**Unsuitable extinguishing** 

media

: Use an extinguishing agent suitable for the surrounding fire.

: Decomposition products may include the following materials:

: None known.

Specific hazards arising from the chemical

Hazardous thermal decomposition products

: No specific fire or explosion hazard.

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides

metal oxide/oxides

Special protective actions for fire-fighters

Special protective

equipment for fire-fighters

: No special protection is required.

: 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 specialised 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).

#### Methods and materials for containment and cleaning up

Spill

: Stop leak if without risk. Move containers from spill area. 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. 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** 

: Put on appropriate personal protective equipment (see Section 8). Avoid contact with used product. Do not reuse container.

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.

including any incompatibilities

Conditions for safe storage, : 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 exposure limits are recommended: ACGIH TLV TWA: 5 ma/m3: STEL: 10 ma/m3.

**Appropriate engineering** controls

: 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.

#### **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. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety evewear 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.

**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** : 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.

: Appropriate footwear and any additional skin protection measures should be selected Other skin protection

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or supplied air respirator complying with an approved

standard if a risk assessment indicates this is 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.

# Section 9. Physical and chemical properties

**Appearance** 

**Boiling point** 

**Physical state** : Liquid. Color : Amber.

Odor : Mild hydrocarbon.

**Odor threshold** : Not available. pН : Not available.

**Melting point / Pour point** : -39°C (-38.2°F)

: Open cup: 230°C (446°F) [Cleveland.] Flash point

: Not available.

**Evaporation rate** : Not available. Flammability (solid, gas) : Not available. : Not available.

Lower and upper explosive

(flammable) limits

: Not available. Vapor pressure Vapor density : Not available.

**Relative density** : 0.854

Solubility : Not available. Partition coefficient: n-: Not available.

octanol/water

: Not available. **Auto-ignition temperature Decomposition temperature** : Not available.

**Viscosity** : Kinematic: 0.118 cm<sup>2</sup>/s (11.8 cSt) (100°C)

Kinematic: 0.756 cm<sup>2</sup>/s (75.6 cSt) (40°C)

# 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 O,O,O',O'-tetrakis(1, 3-dimethylbutyl) bis (phosphorodithioate)	LD50 Dermal	Rabbit	>25000 mg/kg	-
,	LD50 Oral	Rat	2230 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)

There is no data available.

### **Aspiration hazard**

There is no data available.

Information on the likely routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

Skin contactIn No known significant effects or critical hazards.IngestionNo known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact
 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.
 No known significant effects or critical hazards.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### **Short term exposure**

Potential immediate : No known significant effects or critical hazards.

effects

Potential delayed effects : No known significant effects or critical hazards.

**Long term exposure** 

**Potential immediate** : No known significant effects or critical hazards.

effects

**Potential delayed effects**: No known significant effects or critical hazards.

## Potential chronic health effects

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.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Route	ATE value
Oral	211504.7 mg/kg

# **Section 12. Ecological information**

#### **Toxicity**

There is no data available.

#### Persistence and degradability

There is no data available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Dinonyl diphenylamine	3.64 to 7.02	1730	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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	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 73/78 and the IBC Code

## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 4(a) final test rules: acetaldehyde

TSCA 6 proposed risk management: Lead

TSCA 8(a) PAIR: Diphenylamine; Nonylphenol, ethoxylated; Naphthalene; acetaldehyde

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 307: Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis

(phosphorodithioate); Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-

Pr) esters, zinc salts; Ethylbenzene; Naphthalene; Arsenic; Lead

Clean Water Act (CWA) 311: Ethylbenzene; Naphthalene; acetaldehyde

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Not listed

Clean Air Act Section 602

: Not listed

**Class I Substances** 

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

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
Ethylene oxide	0 - 0.1	Yes.	1000	-	10	-

**SARA 304 RQ** : 9389671.4 lbs / 4262910.8 kg [1318667.3 gal / 4991698.8 L]

**SARA 311/312** 

Classification : Not applicable. Composition/information on ingredients

Name	%	hazard	Sudden release of pressure	Reactive	(acute)	Delayed (chronic) health hazard
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate)	1 - 5	No.	No.	No.	Yes.	No.

**SARA 313** 

	Product name	CAS number	%
Form R - Reporting requirements	(phosphorodithioate)	2215-35-2 7439-92-1	1 - 5 0 - 0.1
Supplier notification	Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate)	2215-35-2	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: Distillates, hydrotreated heavy

paraffinic; Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate)

Pennsylvania : The following components are listed: Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis

(phosphorodithioate)

#### California Prop. 65

**WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer. **WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Ethylbenzene	Yes.	No.	41 μg/day (ingestion) 54 μg/day (inhalation)	No.
Naphthalene	Yes.	No.	Yes.	No.
Ethylene oxide	Yes.	Yes.	Yes.	Yes.
1,4-Dioxane	Yes.	No.	Yes.	No.
acetaldehyde	Yes.	No.	90 μg/day (inhalation)	No.
Arsenic	Yes.	No.	0.06 μg/day (inhalation)	No.
Lead	Yes.	Yes.	15 μg/day (ingestion)	Yes.

### International regulations

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Ingredient name	List name	Status
Not listed.		

### Montreal Protocol (Annexes A, B, C, E)

Ingredient name	List name	Status
Not listed.		

### Stockholm Convention on Persistent Organic Pollutants

Ingredient name	List name	Status
Not listed.		

## Rotterdam Convention on Prior Inform Consent (PIC)

Ingredient name	List name	Status
Not listed.		

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Ingredient name	List name	Status
Not listed.		

## Section 16. Other information

## **History**

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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.