

## Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
SDS ID: 31001  
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### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : Mercury Racing 25W-50 Synthetic Blend Engine Oil  
Other means of identification : 8M0078013, 8M0078014, 8M0090504

#### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3. Supplier

Mercury Marine  
W6250 Pioneer Road  
Fond du Lac, WI, 54935  
USA  
T 920-929-5000

#### 1.4. Emergency telephone number

Emergency number : 1-800-424-9300 (CHEMTREC)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Reproductive toxicity Category 2 H361 Suspected of damaging fertility or the unborn child  
Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning  
Hazard statements (GHS US) : H361 - Suspected of damaging fertility or the unborn child  
Precautionary statements (GHS US) : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

No additional information available

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### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
SEVERELY HYDROTREATED HEAVY PARAFFINIC DISTILLATE	CAS-No.: 64742-54-7	50 – 75	Asp. Tox. 1, H304
DEC-1-ENE, HOMOPOLYMER, HYDROGENATED DEC-1-ENE, OLIGOMERS, HYDROGENATED	CAS-No.: 68037-01-4	5 – 10	Asp. Tox. 1, H304
1--DODECENE, POLYMER WITH 1-DECENE, HYDROGENATED	CAS-No.: 151006-60-9	< 5	Asp. Tox. 1, H304
1-DECENE, POLYMER WITH 1-OCTENE AND 1-DODECENE, HYDROGENATED	CAS-No.: 163149-28-8	< 5	Asp. Tox. 1, H304
LONG-CHAIN ALKYL ACID	CAS-No.: 27859-58-1	< 0.5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361 STOT RE 2, H373

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor/physician if you feel unwell. First aider: Pay attention to self-protection.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Seek medical attention if ill effect or irritation develops.
First-aid measures after skin contact	: Seek medical attention if ill effect or irritation develops. Wash skin with plenty of water.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth. If you feel unwell, seek medical advice.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
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#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO <sub>2</sub> ). Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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### 5.2. Specific hazards arising from the chemical

Fire hazard : vapors may cause fire/explosion if source of ignition is present. Watch out for invisible flames. The vapors are denser than air and may travel along the ground. Distance ignition possible.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Evacuate area. Use water spray or fog for cooling exposed containers. Do not allow water to enter the vessels, a violent reaction may occur. Eliminate all ignition sources if safe to do so. Fight fire from safe distance and protected location. In case of fire: Stop leak if safe to do so.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : High temperature decomposition products are harmful by inhalation. On exposure to high temperature, may decompose, releasing toxic gases.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Clean up any spills as soon as possible, using an absorbent material to collect it. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Eliminate every possible source of ignition. Evacuate area.

#### 6.1.1. For non-emergency personnel

Protective equipment : Avoid contact with skin, eyes and clothing. Wear recommended personal protective equipment.

Emergency procedures : Evacuate unnecessary personnel. Do not breathe vapors. No open flames, no sparks, and no smoking.

#### 6.1.2. For emergency responders

Protective equipment : Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

### 6.2. Environmental precautions

Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

For containment : Stop leak, if possible without risk. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Notify authorities if product enters sewers or public waters. Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation. Clear up rapidly by scoop or vacuum.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

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Precautions for safe handling	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Ensure good ventilation of the work station. Do not breathe vapors. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Handling temperature	: ≤ 140 °F
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wear personal protective equipment. Take off immediately all contaminated clothing and wash it before reuse. Separate working clothes from town clothes. Launder separately.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep only in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Mercury Racing 25W-50 Synthetic Blend Engine Oil

##### USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA	5 mg/m <sup>3</sup> Contains highly refined petroleum oil
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##### USA - OSHA - Occupational Exposure Limits

OSHA PEL TWA	5 mg/m <sup>3</sup> Contains highly refined petroleum oil
OSHA PEL STEL	10 mg/m <sup>3</sup> Contains highly refined petroleum oil

### 8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Environmental exposure controls	: Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

<b>Hand protection:</b>
Protective gloves. nitrile rubber gloves
<b>Eye protection:</b>
Chemical goggles or safety glasses
<b>Skin and body protection:</b>
Wear suitable protective clothing. Wear impervious rubber safety shoes. Chemical resistant apron
<b>Respiratory protection:</b>
[In case of inadequate ventilation] wear respiratory protection. In case of inadequate ventilation wear respiratory protection.

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### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Clear amber
Odor	: petroleum-like odor
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 240 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 0.88 at 15.6° C
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 185 mm <sup>2</sup> /s at 40°C
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None under normal use.

### 10.4. Conditions to avoid

High temperature.

### 10.5. Incompatible materials

Acids. Oxidizing agent.

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### 10.6. Hazardous decomposition products

fume. Carbon dioxide. Carbon monoxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### DEC-1-ENE, HOMOPOLYMER, HYDROGENATED DEC-1-ENE, OLIGOMERS, HYDROGENATED (68037-01-4)

LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 5.2 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

#### 1--DODECENE, POLYMER WITH 1-DECENE, HYDROGENATED (151006-60-9)

LD50 dermal rabbit	> 3000 mg/kg Source: ECHA
LC50 Inhalation - Rat (Vapours)	0.9 mg/l Source: ECHA
ATE US (vapors)	0.9 mg/l/4h

#### 1-DECENE, POLYMER WITH 1-OCTENE AND 1-DODECENE, HYDROGENATED (163149-28-8)

LD50 dermal rabbit	> 3000 mg/kg Source: ECHA
LC50 Inhalation - Rat (Dust/Mist)	> 5.2 mg/l Source: ECHA

#### SEVERELY HYDROTREATED HEAVY PARAFFINIC DISTILLATE (64742-54-7)

LD50 dermal rabbit	> 5000 mg/kg Source: IUCLID
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Skin corrosion/irritation : Not classified

#### 1--DODECENE, POLYMER WITH 1-DECENE, HYDROGENATED (151006-60-9)

pH	3.9 Source: ECHA
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Serious eye damage/irritation : Not classified

#### 1--DODECENE, POLYMER WITH 1-DECENE, HYDROGENATED (151006-60-9)

pH	3.9 Source: ECHA
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Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Suspected of damaging fertility or the unborn child.  
STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified

#### LONG-CHAIN ALKYL ACID (27859-58-1)

NOAEL (oral, rat, 90 days)	100 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral)), Guideline: other., Guideline: other:
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

#### SEVERELY HYDROTREATED HEAVY PARAFFINIC DISTILLATE (64742-54-7)

LOAEL (oral, rat, 90 days)	125 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
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### SEVERELY HYDROTREATED HEAVY PARAFFINIC DISTILLATE (64742-54-7)

NOAEC (inhalation, rat, dust/mist/fume, 90 days)	> 0.98 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)
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Aspiration hazard	: Not classified
Viscosity, kinematic	: 185 mm <sup>2</sup> /s at 40°C
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Mercury Racing 25W-50 Synthetic Blend Engine Oil

LC50 - Fish [1]	> 100 mg/l
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LC50 - Other aquatic organisms [1]	> 100 mg/l
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#### LONG-CHAIN ALKYL ACID (27859-58-1)

LC50 - Fish [1]	5.802 mg/l Source: ECOSAR
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EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
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EC50 96h - Algae [1]	8.544 mg/l Source: ECOSAR
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EC50 96h - Algae [2]	100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
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#### SEVERELY HYDROTREATED HEAVY PARAFFINIC DISTILLATE (64742-54-7)

LC50 - Fish [1]	> 5000 mg/l
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EC50 - Crustacea [1]	> 1000 mg/l Source: IUCLID
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EC50 96h - Algae [1]	> 1000 mg/l Source: IUCLID
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### 12.2. Persistence and degradability

#### Mercury Racing 25W-50 Synthetic Blend Engine Oil

Persistence and degradability	Not rapidly degradable
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#### DEC-1-ENE, HOMOPOLYMER, HYDROGENATED DEC-1-ENE, OLIGOMERS, HYDROGENATED (68037-01-4)

Persistence and degradability	Not rapidly degradable
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#### 1--DODECENE, POLYMER WITH 1-DECENE, HYDROGENATED (151006-60-9)

Persistence and degradability	Not rapidly degradable
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#### 1-DECENE, POLYMER WITH 1-OCTENE AND 1-DODECENE, HYDROGENATED (163149-28-8)

Persistence and degradability	Not rapidly degradable
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#### LONG-CHAIN ALKYL ACID (27859-58-1)

Persistence and degradability	Not rapidly degradable
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#### SEVERELY HYDROTREATED HEAVY PARAFFINIC DISTILLATE (64742-54-7)

Persistence and degradability	Not rapidly degradable
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### 12.3. Bioaccumulative potential

#### 1--DODECENE, POLYMER WITH 1-DECENE, HYDROGENATED (151006-60-9)

Partition coefficient n-octanol/water (Log Pow) 5

#### 1-DECENE, POLYMER WITH 1-OCTENE AND 1-DODECENE, HYDROGENATED (163149-28-8)

Partition coefficient n-octanol/water (Log Pow) 5

#### LONG-CHAIN ALKYL ACID (27859-58-1)

Partition coefficient n-octanol/water (Log Pow) 4.93 Source: Episuite

#### SEVERELY HYDROTREATED HEAVY PARAFFINIC DISTILLATE (64742-54-7)

Partition coefficient n-octanol/water (Log Pow) 3.9 – 6 Source: IUCLID

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Clean up even minor leaks or spills if possible without unnecessary risk. Do not re-use empty containers.
Ecological information	: Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT

### 14.1. UN number

DOT NA No : Not regulated

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not regulated

### 14.3. Transport hazard class(es)

**DOT**  
Transport hazard class(es) (DOT) : Not regulated

### 14.4. Packing group

Packing group (DOT) : Not regulated

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### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### DOT

Not regulated

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
DEC-1-ENE, HOMOPOLYMER, HYDROGENATED DEC-1-ENE, OLIGOMERS, HYDROGENATED	68037-01-4	Present	Active	XU
1--DODECENE, POLYMER WITH 1- DECENE, HYDROGENATED	151006-60-9	Not present	-	
1-DECENE, POLYMER WITH 1-OCTENE AND 1- DODECENE, HYDROGENATED	163149-28-8	Not present	-	
LONG-CHAIN ALKYL ACID	27859-58-1	Present	Active	TP
SEVERELY HYDROTREATED HEAVY PARAFFINIC DISTILLATE	64742-54-7	Present	Active	

### 15.2. International regulations

#### CANADA

#### DEC-1-ENE, HOMOPOLYMER, HYDROGENATED DEC-1-ENE, OLIGOMERS, HYDROGENATED (68037-01-4)

Listed on the Canadian DSL (Domestic Substances List)

#### LONG-CHAIN ALKYL ACID (27859-58-1)

Listed on the Canadian DSL (Domestic Substances List)

#### SEVERELY HYDROTREATED HEAVY PARAFFINIC DISTILLATE (64742-54-7)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

#### DEC-1-ENE, HOMOPOLYMER, HYDROGENATED DEC-1-ENE, OLIGOMERS, HYDROGENATED (68037-01-4)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### 15.3. US State regulations

No additional information available

### SECTION 16: Other information

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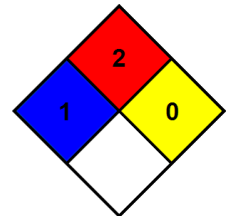
#### Full text of H-phrases

H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H318	Causes serious eye damage
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : B - Safety glasses, Gloves

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.