

## Marine Lube

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 - Product identifier

Trade name/designation Marine Lube  
Chemical name Fatty acids, vegetable-oil, Me esters  
Product-type Mixture

#### 1.2 - Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

- Surfactant
- Fuels
- Biodiesel

Uses advised against - Not for human consumption.

#### 1.3 - Details of the supplier of the safety data sheet

Airesun Global  
104 Marine Dr  
Edwardsville, NS Canada B2A 4S6

Website <http://> N/A

#### 1.4 - Emergency telephone number + 1 902 371 8489

### SECTION 2: Hazards identification

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

Classification according to Regulation (EC) No 1272/2008 [CLP]

Not Classified	Not classified
----------------	----------------

#### 2.2 - Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains: Fatty acids, vegetable-oil, Me esters (CAS No.: 68990-52-3)

Signal word : None  
Pictograms : None  
Hazard statements : None  
Precautionary statements : None  
EUH-phrases : None

#### 2.3 - Other hazards

PBT-substance. - The substance is not considered PBT according to criteria in Annex XIII.

vPvB-substance. - The substance is not considered vPvB according to criteria in Annex XIII.

Other hazards which do not result in classification - Causes mild skin irritation.

### SECTION 3: Composition / information on ingredients

## Marine Lube

### 3.1 - Substances

Not applicable

### 3.2 - Mixtures

Chemical name	No	%	Class	Spec. concentrations
Fatty acids, vegetable-oil, Me esters	CAS No. : 68990-52-3 Index No. : index EC No. : 273-606-8 REACH No. : 01-2119485821-32-0033	97 - 100	Not Classified -	Not applicable

## SECTION 4: First aid measures

### 4.1 - Description of first aid measures

<u>Following inhalation</u>	- Provide fresh air.
<u>Following skin contact</u>	- After contact with skin, wash immediately with plenty of water and soap.
<u>After eye contact</u>	- In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
<u>After ingestion</u>	- Do NOT induce vomiting. - Rinse mouth thoroughly with water. - When in doubt or if symptoms are observed, get medical advice.

### 4.2 - Most important symptoms and effects, both acute and delayed

<u>Symptoms and effects - Following inhalation</u>	- No information available.
<u>Symptoms and effects - Following skin contact</u>	- No information available.
<u>Symptoms and effects - After eye contact</u>	- No information available.
<u>Symptoms and effects - After ingestion</u>	- No information available.

### 4.3 - Indication of any immediate medical attention and special treatment needed

- Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 - Extinguishing media

<u>Suitable extinguishing media</u>	- Carbon dioxide (CO2) - Extinguishing powder - Foam - Water spray
<u>Unsuitable extinguishing media</u>	- High power water jet

### 5.2 - Special hazards arising from the substance or mixture

<u>Special hazards arising from the substance or mixture</u>	- Hazardous combustion products
--	---------------------------------

---

## Marine Lube

---

### 5.3 - Advice for firefighters

- Wear a self-contained breathing apparatus and chemical protective clothing.
- Use water spray to cool unopened containers.

---

## SECTION 6: Accidental release measures

---

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

#### For non-emergency personnel

- Use personal protection equipment.
- Remove persons to safety.
- Provide adequate ventilation.

#### For emergency responders

- Wear breathing apparatus if exposed to vapours/dusts/aerosols.
- Wear personal protection equipment (refer to section 8).

### 6.2 - Environmental precautions

- Do not allow to enter into surface water or drains.
- Shafts and sewers must be protected from entry of the product.

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

#### Methods and material for containment

- Take up with oil-absorbing compound.

#### Methods and material for cleaning up

- Clear contaminated areas thoroughly.
- Wash with plenty of water.

### 6.4 - Reference to other sections

- Safe handling: see section 7
- Personal protection equipment: see section 8
- Disposal: see section 13

---

## SECTION 7: Handling and storage

---

### 7.1 - Precautions for safe handling

#### Recommendation

- Provide adequate ventilation.
- Take off contaminated clothing and wash it before reuse.

#### Advices on general occupational hygiene

- Handle in accordance with good industrial hygiene and safety practice.

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

- Keep away from heat.
- Keep container tightly closed in a cool, well-ventilated place.

### 7.3 - Specific end use(s)

---

## SECTION 8: Exposure controls/personal protection

---

### 8.1 - Control parameters

## Marine Lube

### 8.2 - Exposure controls

Appropriate engineering controls

- Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

- Suitable eye protection: Eye glasses with side protection



- Suitable protective clothing: lab coat



- Respiratory protection necessary at: aerosol or mist formation

Environmental exposure controls

- Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

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

<u>Physical state</u>	Liquid	<u>Appearance</u>	Liquid
<u>Colour</u>	yellow	<u>Odour</u>	
Odour threshold		No data available	
pH		No data available	
Melting point		No data available	
Freezing point		No data available	
Boiling point		320 °C < V < 340 °C	
Flash point		No data available	
Evaporation rate		No data available	
flammability		No data available	
Lower explosion limit		No data available	
Upper explosion limit		No data available	
Vapour pressure		No data available	
Vapour density		No data available	
Relative density		No data available	
Density		No data available	
Solubility (Water)		No data available	
Solubility (Ethanol)		No data available	
Solubility (Acetone)		No data available	
Solubility (Organic solvents)		No data available	
Log KOC		No data available	
Auto-ignition temperature		No data available	
Decomposition temperature		No data available	
Kinematic viscosity		No data available	
Dynamic viscosity		6.1 mPa.s	

### 9.2 - Other information

## Marine Lube

VOC content	No data available
Minimum ignition energy	No data available
Conductivity	No data available

### SECTION 10: Stability and reactivity

#### 10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

#### 10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

#### 10.4 - Conditions to avoid

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 10.5 - Incompatible materials

- Strong oxidizing agents.

#### 10.6 - Hazardous decomposition products

- Thermal decomposition can lead to the escape of irritating gases and vapours.

### SECTION 11: Toxicological information

#### 11.1 - Information on toxicological effects

Acute toxicity - Not classified

#### Toxicity : Mixture

LD50 oral (rat)	> 5000 mg/kg OECD 401
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

- Based on available data, the classification criteria are not met.

#### Toxicity : Substances

Fatty acids, vegetable-oil, Me esters (68990-52-3)	
LD50 oral (rat)	> 5000 mg/kg OECD 401

Skin corrosion/irritation - Not classified

- slightly irritant but not relevant for classification.

## Marine Lube

<u>Serious eye damage/eye irritation</u>	- Not classified
	- slightly irritant but not relevant for classification.
<u>Respiratory or skin sensitisation</u>	- Not classified
	- not sensitising.
<u>Germ cell mutagenicity</u>	- Not classified
	- No indications of human germ cell mutagenicity exist.
<u>Carcinogenicity</u>	- Not classified
	- No indication of human carcinogenicity.
<u>Reproductive toxicity</u>	- Not classified
	- No indications of human reproductive toxicity exist.
<u>STOT-single exposure</u>	- Not classified
	- Based on available data, the classification criteria are not met.
<u>STOT-repeated exposure</u>	- Not classified
	- Based on available data, the classification criteria are not met.
<u>Aspiration hazard</u>	- Not classified

### SECTION 12: Ecological information

#### 12.1 - Toxicity

##### Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

- Toxic to aquatic life.

#### 12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- Readily biodegradable (according to OECD criteria).

#### 12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
-------------------------------	-------------------

---

## Marine Lube

---

Log KOC	No data available
---------	-------------------

- No indication of bioaccumulation potential.

### 12.4 - Mobility in soil

- Low mobility in soil

### 12.5 - Results of PBT and vPvB assessment

- The substance is not considered PBT according to criteria in Annex XIII.

- The substance is not considered vPvB according to criteria in Annex XIII.

### 12.6 - Other adverse effects

- No information available.

---

## SECTION 13: Disposal considerations

---

### 13.1 - Waste treatment methods

#### Waste treatment methods

- Dispose of waste according to applicable legislation.
- Handle contaminated packages in the same way as the substance itself.

---

## SECTION 14: Transport information

---

### 14.1 - UN number

Not applicable

### 14.2 - UN proper shipping name

### 14.3 - Transport hazard class(es)

### 14.4 - Packing group

### 14.5 - Environmental hazards

### 14.6 - Special precautions for user

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

---

## SECTION 15: Regulatory information

---

### 15.1 - Safety, health and environmental regulations/legislation specific for the substance or mixture

Substances REACH candidates None

Substances Annex XIV None

Substances Annex XVII None

VOC content No data available

### 15.2 - Chemical Safety Assessment

---

## SECTION 16: Other information

---

---

## Marine Lube

---

### SDS versions

Version	Issue date	Description of the amendments
1	3/16/2018	

### Texts of the regulatory sentences

Not Classified	Not classified
----------------	----------------

\*\*\* \*\*