

## Material Safety Data Sheet

In accordance with Regulation (EC) No 1272/2008 (CLP) &  
REACH Commission Regulation (EU) No 453/2010.

Issue date 04/02/16

### 1. IDENTIFICATION OF THE PRODUCT AND SUPPLIER

- 1.1 Product identifier** eco engine cleaner & degreaser
- 1.2 Use of Preparation** A concentrated biological preparation for degreasing and cleaning engine parts
- 1.3 Supplier details** Ecoworks Marine Ltd.  
3 Edgar Buildings  
George st  
Bath  
BA1 2FJ  
Phone: + 44 (0)8700 777575  
E-mail: sales@ecoworksmarine.com
- 1.4 Emergency telephone number** + 44 (0)8700 777575 (8am-5pm)

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the mixture

**Classification according to the Regulation (EC) No 1272/2008 (CLP)**

Danger: Serious Eye Dam, Cat 1;

#### **Classification of the ready to use product (rtu)**

Not classified.

**Classification according to Directives 1999/45/EC and 67/548/EEC (CHIP)**

Xi, Irritant

#### 2.2 Label Elements according to the Regulation (EC) No 1272/2008 (CLP)

Signal word: Danger

Symbol:



Hazard Statements:

H318 Causes serious eye damage.

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Prevention:	P102 Keep out of reach of children. P262 Do not get in eyes or on skin. P280 Wear eye protection. P264 Wash hands thoroughly after handling.
Response:	P305,P351,P338,P310: IF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor.
Contains:	alcohols C9-C11 ethoxylated

**In compliance with directives 67/548/EEC, 1999/45/EC (CHIP) and their amendments  
Classification 1999/45/EC**

Irritant.

### Hazard Symbol



### Risk Phrases:

R36 Irritating to eyes.

### Safety Phrases:

S2 Keep out of the reach of children.

S24/25 Avoid contact with the eyes and skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with the skin, wash immediately with plenty of soap and water.

### 2.3 Other hazards

Prolonged contact may cause minor degreasing of the skin. Preparation is biodegradable and not classified as dangerous for the environment. Contains enzymes. Avoid breathing spray.

## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### Composition:

Ingredient	Cas No.	EC No.	Conc
Alcohol ethoxylate	68439-46-3	-	1-10%

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**Classification (EC 1272/2008)**

Act tox. Cat 4: H302

Ser. Eye Dam. Cat 1: H318

**Classification (67/548/EEC)**

Xn; R22 R41.

**Ingredient**

Alcohol ethoxylate

**Cas No.**

68439-45-2

**EC No.**

-

**Conc**

1-5%

**Classification (EC 1272/2008)**

Act tox. Cat 4: H302

Ser. Eye Dam. Cat 1: H318

**Classification (67/548/EEC)**

Xn; R22 R41.

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

**In the event of exposure by inhalation:**

Remove victim to fresh air and seek medical attention if symptoms persist.

**In the event of splashes or contact with the eyes:**

Immediately flush eyes with water for at least 15 minutes and seek medical attention.

**In the event of splashes or contact with the skin:**

Wash affected area thoroughly with water and remove contaminated clothing. Wash before re-use.

**In the event of swallowing:**

Rinse mouth and throat with water and give sips of water to drink.

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

**General information**

The severity of the symptoms described will vary dependent of the concentration and the length of exposure.

**Inhalation**

Use in a well ventilated area. May cause shortness of breath.

**Ingestion**

May cause discomfort if swallowed.

**Skin contact**

Prolonged contact with the product concentrate, may cause irritation, degreasing and redness.

**Eye contact**

May cause serious damage to eyes. May cause discomfort, pain and redness. Possible risk of permanent damage.

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

Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing media:

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

### Suitable methods of extinction

Water, dry chemical or carbon dioxide.

### Unsuitable methods of extinction

None known.

### 5.2 Special hazards arising from the mixture

None known.

### 5.3 Advice for fire-fighters

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and procedures

No special protective clothing (See Section 8).

### 6.2 Environmental precautions

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

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

Contain liquid spillages when possible to prevent further contamination of soil, surface water and ground water. Absorb spillages with a suitable absorbent material. Transfer the spillage to waste containers labeled in the same way as the original containers. Small releases should not pose any hazard to the local environment. Wash spillage site with water. May be flushed to drains with plenty of water.

### 6.4 Reference to other sections

For personal protection, see Section 8.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

No specific usage precautions noted. Use in a well ventilated area.

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

Store at moderate temperatures in dry, well ventilated area. Keep in original container.

### 7.3 Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage Description

See Product Information Sheet & Label for detailed use of this product.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Hazardous ingredients:

Not relevant.

### 8.2 Exposure controls

Engineering measures

Not relevant.

### Personal protection measures, such as personal protective equipment

#### Eye/face protection

Safety glasses recommended when handling product concentrate.

#### Hand protection

Gloves recommended if prolonged contact with product concentrate is likely.

#### Body protection

Not required.

#### Respiratory protection

Respiratory protection not required. Use in a well ventilated area.

#### Other Protection

None required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### General information:

Physical state

Appearance

Liquid

Colour

Green

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Odour	Pleasant
Solubility	Soluble
pH	7-8
Melting point/freezing point:	>0 °C
Initial boiling point and boiling range:	>100 °C
Flash point:	No data available
Evaporation rate:	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available

### Important health, safety and environmental information:

#### 9.2 Other information

None.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No specific reactivity hazards associated with this product.

### 10.2 Chemical stability

No particular stability concerns.

### 10.3 Possibility of hazardous reactions

See Sections 10.1, 10.4 & 10.5

### 10.4 Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation. Avoid excessive temperature variations.

### 10.5 Incompatible materials

Strong acid, alkaline and oxidizing agents.

### 10.6 Hazardous decomposition products

No hazardous decomposition products.

## 11. TOXICOLOGICAL

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### 11.1 Information on toxicological effects

#### Skin corrosion/skin irritation:

There may be irritation at the site of contact.

#### Serious damage to eyes/eye irritation:

There may be irritation, pain and redness. Possible risk of permanent damage from exposure to product concentrate.

#### Respiratory or skin sensitization:

May cause shortness of breath in sensitised individuals. Spray away from the face. Avoid breathing product spray.

Acute oral toxicity data (where available) for components of this product are;

Eco-solvent	Oral LD50 > 2,000 mg/Kg
Organic acid	Oral rat LD50 > 2,000 mg/Kg
Lipase enzyme	Oral rat LD-50 > 2,000mg/kg
Amphoteric surfactant	Oral rat LD-50 > 5,000mg/kg
Lauryl betaine (amphoteric)	Oral rat LD-50 > 2,000mg/kg
Non-ionic surfactant	LD50 >300 - <=2000 mg/kg

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

We have not carried out any Aquatic testing, therefore we have no Aquatic Toxicity Data specifically for the product itself.

Eco-toxicity data (where available) for components of this product are;

Eco-solvent	LC50 (daphnia)	> 100 mg/l
Organic acid	LC50 48hr (fish)	440 mg/l
Lipase enzyme	LC50 (fish)	> 100 mg/l, EC50 (daphnia) > 100 mg/l and IC50 (algae) > 100 mg/l
Amphoteric surfactant	Rainbow Trout (Oncorhynchus mykiss)	LC50 96hr 100 mg/l
Non-ionic surfactant	Fish LL/EL/IL50	1-10 mg/l
	Aquatic Invertebrates LL/EL/IL50	1-10 mg/l
	Algae LL/EL/IL50	1-10 mg/l
	Microorganisms	Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l

### Mixtures

#### 12.2 Persistence and degradability

The preparation is readily biodegradable. The surfactants in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

#### 12.3 Bio-accumulative potential

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The product does not contain any substances expected to bio-accumulate.

### 12.4 Mobility in soil

This preparation is highly dispersible in water. It is highly likely to distribute predominantly to the aqueous environment.

### 12.5 Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

### 12.6 Other adverse effects

Not known.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product Waste:

Small amounts of unwanted product may be flushed with water to sewer. Larger volumes should be sent for disposal by an approved waste contractor.

#### Soiled packaging:

Rinse container and consign empty container to normal waste.

## 14. TRANSPORT INFORMATION

General Not classified as hazardous for transport.

14.1 UN Number Not applicable/Non-hazardous

14.2 UN proper shipping name Not applicable/Non-hazardous

14.3 Transport Hazard class(es) Not applicable/Non-hazardous

Land  
Inland Waterway Transport  
Sea  
Air

14.4 Packing group Not applicable/Non-hazardous

14.5 Environmental hazards Not classified as environmentally hazardous

14.6 Special Precautions for user None

## 15. REGULATORY INFORMATION

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



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Safety Data Sheet prepared in accordance with REACH Commission Regulation (EU) No 453/2010, which amends Regulation (EC) No 1907/2006.

The product is classified under CLP Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

Ingredients are listed with classification under both CHIP - Directive 67/548/EEC - classification, packaging & labelling of dangerous substances & GHS/CLP Regulation (EC) No 1272/2008 classification, labelling & packaging of substances and mixtures.

### 15.2 Chemical safety assessment

Not applicable - this product is a mixture.

## 16. OTHER INFORMATION

### Information Sources

Material Safety Data Sheets from multiple raw material manufacturers.

CLP Classification - List of harmonised classification and labelling of hazardous substances. CHIP

Classification - List of harmonised classification and labelling of hazardous substances from Annex I to Directive 67/548/EEC.

### Comments

There has been a change to the classification of the product due to changes in the classification criteria in accordance with CLP.

Issue date: 13/07/2015

The Risk Phrases/Hazard Statements listed below relate to the raw materials (ingredients) in the product (as listed in Section 3) and NOT the product itself. For the Risk Phrases / Hazard Statements relating to this product refer to Section 2.

### Risk Phrases in Full

R22 Harmful if swallowed.

R41 Risk of serious damage to eyes.

### Hazard Statements in Full

H302 Harmful if swallowed.

H318 Causes serious eye damage.

### Legal disclaimer:

The information provided is to the best of our knowledge correct and accurate. However, all data instructions and suggestions should be used only for guidance purposes. This company shall not be held liable for any damage resulting from handling or contact with the above product.