



Safety Data Sheet - Fortron Eco Logic Biofuel System Cleaner

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Dated: 2nd August 2017
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1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Identification of the preparation

Product Name:	FORTRON Eco Logic Biofuel System Cleaner
Product Code:	FELBFSC

1.2 Identification of the Company



Manufacturer:	Fortron International
Address:	Unit 4 Cannel Road, Burntwood Business park, Burntwood, Staffordshire, WS7 3FU
Country:	United Kingdom
Telephone:	01543 679 900
Fax:	01543 679 901
Emergency Phone Number:	01543 679 900 (office hours only)

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification under CLP:	Eye Dam. 1: H318; Aquatic Chronic 2: H411; Skin Irrit. 2: H315
Most important adverse effects	Causes skin irritation. Causes serious eye damage. Toxic to aquatic life with long lasting effects

2.2 Label elements

Hazard statements:	H315: Causes skin irritation. H318: Causes serious eye damage H411: Toxic to aquatic life with long lasting effects
Hazard Pictograms:	GHS05: Corrosion GHS09: Environmental  

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2.2 Label elements

Signal Words:	Danger
Precautionary statements:	P280 Wear protective gloves/eye protection P302+352: IF ON SKIN: Wash with plenty of water/soap P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTRE/doctor/first aid. P391: Collect spillage.

2.3 Other Hazards

PBT:	This product is not identified as a PBT/vPvB substance
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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous Ingredients:

AMIDES, C8-18 (EVEN NUMBERED) AND C18-UNSATD, N,N-BIS(HYDROXYETHYL) - REACH registered number(s): 01-2119490100-53

EINECS	CAS	PBT/WEL	CLP Classification	Percent
931-329-6	68155-07-7	—	Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Irrit. 2: H315	30 - 50%

2-METHYLPENTANE-2,4-DIOL

EINECS	CAS	PBT/WEL	CLP Classification	Percent
203-489-0	107-41-5	—	Eye Irrit. 2: H319; Skin Irrit. 2: H315	10-30%

ETHANOL - REACH registered number(s): 01-2119457610-43

EINECS	CAS	PBT/WEL	CLP Classification	Percent
200-578-6	64-17-5	Substance with a Community workplace exposure limit.	Flam. Liq. 2: H225	5-10%

POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-(2-PROPYLHEPTYL)-.OMEGA.-HYDROXY-

EINECS	CAS	PBT/WEL	CLP Classification	Percent
605-233-7	160875-66-1	—	Acute Tox. 4: H302; Eye Dam. 1: H318	5-10%

GLYCERINE

EINECS	CAS	PBT/WEL	CLP Classification	Percent
200-289-5	56-81-5	Substance with a Community workplace exposure limit.	—	1-5%

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4. FIRST AID MEASURES

4.1 Description of first aid measures

Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water
Eye contact:	Bathe the eye with running water for 15 minutes. Consult a doctor
Ingestion:	Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so

4.2 Most important symptoms and effects, both acute and delayed

Skin contact:	There may be irritation and redness at the site of contact.
Eye contact:	There may be pain and redness. The eyes may water profusely. The vision may become blurred. May cause permanent damage
Ingestion:	Nausea and stomach pain may occur. There may be vomiting and diarrhoea
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest
Delayed / immediate effects	Immediate effects can be expected after short-term exposure

4.3 Indication of any immediate medical attention and special treatment needed

Treatment:	Eye bathing equipment should be available on the premises
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5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media:	Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers
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5.2 Special hazards arising from the substance or mixture

Exposure hazards:	In combustion emits toxic fumes
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5.3 Advice for fire-fighters

Advice for fire-fighters:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:	Do not attempt to take action without suitable protective clothing - see Section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid
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6.2 Environmental precautions

Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.
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6.3 Methods and material for containment and cleaning up

Clean-up procedures:	Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.
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6.4 Reference to other sections

Reference to other sections	Refer to section 8 of SDS
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7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling requirements:	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air
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7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:	Store in a cool, well ventilated area. Keep container tightly closed
Suitable packaging	Must only be kept in original packaging

7.3 Specific end use:

No data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Controls parameters

Hazardous ingredients:

2-METHYLPENTANE-2,4-DIOL

Workplace exposure limits:		Respirable dust		
State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	123 mg/m ³	123 mg/m ³	-	-

ETHANOL

UK	1920 mg/m ³	-	-	-
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GLYCERINE

UK	10mg/m ³	-	-	-
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DNEL/PNEC No data

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8.2 Exposure controls	
Engineering measures:	Ensure there is sufficient ventilation of the area
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency
Hand protection:	Protective gloves
Eye protection:	Safety glasses with side-shields. Ensure eye bath is to hand.
Skin protection:	Protective clothing.
Environmental:	Prevent from entering in public sewers or the immediate environment

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties			
State:	Liquid	Boiling point/range°C:	100
Colour:	Dark green	Flammability limits %: lower:	Not applicable
Odour:	Perceptible odour	Flash point°C:	Not applicable
Evaporation rate	Slow	Autoflammability°C:	Not applicable
Oxidising:	Not applicable	Relative density:	0.950
Solubility in water:	Soluble	VOC g/l:	Not applicable
Viscosity:	Non-viscous	Melting point/range°C:	0°C
Part.coeff. n-octanol/water:	No data available	upper:	Not applicable
pH:	9.50	Vapour pressure	No data available

9.2 Other information	
No data available	

10. STABILITY AND REACTIVITY

10.1 Reactivity	
Reactivity:	Stable under recommended transport or storage conditions

10.2 Chemical stability	
Chemical stability:	Stable under normal conditions

10.3 Possibility of hazardous reaction	
Hazardous reactions:	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid	
Conditions to avoid:	Heat. Hot surfaces.

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10.5 Incompatible materials

Materials to avoid:	Strong oxidising agents. Strong acids
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10.6 Hazardous decomposition products

Haz. decomp. products:	In combustion emits toxic fumes
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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Hazardous ingredients:

AMIDES, C8-18 (EVEN NUMBERED) AND C18-UNSATD, N,N-BIS(HYDROXYETHYL)

DERMAL	RAT	LD50	>2000mg/kg
ORAL	RAT	LD50	>5000mg/kg

2-METHYLPENTANE-2,4-DIOL

IPR	RAT	LDLO	1500mg/kg
ORL	MUS	LD50	3097mg/kg
ORL	RAT	LD50	3700mg/kg

ETHANOL

DERMAL	RBT	LD50	>2000mg/kg
ORL	MUS	1H LC50	>20mg/kg
ORL	RAT	LD50	>2000mg/kg

POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-(2-PROPYLHEPTYL)-.OMEGA.-HYDROXY-

ORAL	RAT	LD50	500mg/kg
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GLYCERINE

ORAL	RAT	LD50	23000mg/kg
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Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

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Symptoms/routes of exposure	
Skin contact:	There may be irritation and redness at the site of contact.
Eye contact:	There may be pain and redness. The eyes may water profusely. The vision may become blurred. May cause permanent damage
Ingestion:	Nausea and stomach pain may occur. There may be vomiting and diarrhoea
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure
Other information:	Not applicable

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Hazardous ingredients:

AMIDES, C8-18 (EVEN NUMBERED) AND C18-UNSATD, N,N-BIS(HYDROXYETHYL)		
ALGAE	72H IC50	3.9mg/l
DAPHNIA	72H ErC50	3.2mg/l
FISH	96H LC50	2.4mg/l

ETHANOL		
ALGAE	48H EC50	>100mg/l
Daphnia magna	48H EC50	>100mg/l
FISH	96H LC50	>100mg/l

POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-(2-PROPYLHEPTYL)-.OMEGA.-HYDROXY-		
Daphnia magna	48H EC50	>10-100mg/l
Scenedesmus Subspicatus	72H ErC50	>10-100mg/l

12.2 Persistence and degradability

Persistence and degradability:	The surfactant(s) contained in this preparation complies (comply) with the Biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents, (or are undergoing testing to obtain a derogation within the terms of the directive). Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
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12.3 Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential

12.4 Mobility in soil

Mobility: Readily absorbed into soil. Soluble in water

12.5 Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance

12.6 Other adverse effects

Other adverse effects: Toxic to aquatic organisms

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment Methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

14.1 UN number

UN3082

14.2 UN Proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AMIDES, C8-18 (EVEN NUMBERED) AND C18-UNSATD, N,N-BIS (HYDROXYETHYL))

14.3 Transport hazard classes

Transport class: 9

14.4 Packing group

Packing group: III

14.5 Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6 Special precautions for user

Special precautions: Limited Quantity - 5 L/kg No special precautions.

Tunnel code: E

Transport category: 3

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15. SAFETY, HEALTH & ENVIRONMENTAL REGULATIONS

Specific regulations:

Not applicable.

16. OTHER INFORMATION

16.1 Other information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830

Phrases used in s.2 and s.3:

H225: Highly flammable liquid and vapour.

H302: Harmful if swallowed

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation

H411: Toxic to aquatic life with long lasting effects.

Further Information

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.