

**Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

**Product name:** FEFC/6 FUEL CONDITIONER

**REACH registered number(s):** EXEMPT - MIXTURE

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Use of substance / mixture:** PC20: Products such as pH-regulators, flocculants, precipitants, neutralization agents.

**1.3. Details of the supplier of the safety data sheet**

**Company name:** FORTEcX Eco Ltd

Eco Suites, 3rd Floor

24 Blythswood Square

Glasgow

G2 4BG

United Kingdom

**Tel:** FORTEcX +44 (0) 141 459 0049

**Email:** steven.dunnett@fortecxeco.com

**1.4. Emergency telephone number**

**Emergency tel:** FORTEcX +44 (0) 141 459 0049

(office hours only)

**Section 2: Hazards identification****2.1. Classification of the substance or mixture**

**Classification under CLP:** Acute Tox. 4: H312; Eye Dam. 1: H318; Skin Irrit. 2: H315

**Most important adverse effects:** Harmful in contact with skin. Causes skin irritation. Causes serious eye damage.

**2.2. Label elements****Label elements:**

**Hazard statements:** H312: Harmful in contact with skin.

H315: Causes skin irritation.

H318: Causes serious eye damage.

**Hazard pictograms:** GHS05: Corrosion

GHS07: Exclamation mark



**Signal words:** Danger

**Precautionary statements:** P280: Wear eye protection, face protection.

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P262: Do not get in eyes, on skin, or on clothing.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

#### 2.3. Other hazards

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

### Section 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous ingredients:

2-BUTOXYETHANOL - REACH registered number(s): 01-2119475108-36-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
203-905-0	111-76-2	-	Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315	50-70%

FATTY ACID DIETHANOLAMIDE

271-657-0	68603-42-9	-	Skin Irrit. 2: H315; Eye Dam. 1: H318	10-30%
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NONYLPHENOL, ETHOXYLATED - REACH registered number(s): 01-2119946371-39-xxxx

500-024-6	9016-45-9	-	Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Aquatic Chronic 2: H411	1-10%
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### Section 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. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. Consult a doctor.

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

**Skin contact:** There may be mild irritation at the site of 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. There may be severe pain. The vision may become blurred. May cause permanent damage.

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**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be difficulty swallowing.

**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

**Immediate / special treatment:** Show this safety data sheet to the doctor in attendance. Eye bathing equipment should be available on the premises.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

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

**Exposure hazards:** In combustion emits toxic fumes.

### 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.

## Section 6: Accidental release measures

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

**Personal precautions:** Mark out the contaminated area with signs and prevent access to unauthorised personnel. 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. Remove all incompatible materials as outlined in section 10 of SDS.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

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

**Clean-up procedures:** Avoid all incompatible materials in clean-up procedure - see section 10 of SDS. Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water. Refer to section 13 of SDS for suitable method of disposal.

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS. Refer to section 13 of SDS.

## Section 7: Handling and storage

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#### 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.

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

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed. Avoid incompatible materials and conditions - see section 10 of SDS.

**Suitable packaging:** Must only be kept in original packaging.

#### 7.3. Specific end use(s)

**Specific end use(s):** PC20: Products such as pH-regulators, flocculants, precipitants, neutralization agents.

### Section 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Hazardous ingredients:**

**2-BUTOXYETHANOL**

**Workplace exposure limits:**

**Respirable dust:**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	25 ppm	50 ppm	-	-

#### DNEL/PNEC Values

**Hazardous ingredients:**

**2-BUTOXYETHANOL**

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	98 mg/m3	Workers	Systemic
DNEL	Inhalation	246 mg/m3	Workers	Local
DNEL	Dermal	75 mg/kg	Workers	Systemic
DNEL	Inhalation	49 mg/m3	Consumers	Systemic
DNEL	Inhalation	123 mg/m3	Consumers	Local
DNEL	Dermal	38 mg/kg	Consumers	Systemic
DNEL	Oral	3.2 mg/kg	Consumers	Systemic
PNEC	Fresh water	8.8 mg/l	-	-
PNEC	Marine water	0.88 mg/l	-	-
PNEC	Microorganisms in sewage treatment	463 mg/l	-	-
PNEC	Fresh water sediments	34.6 mg/kg	-	-
PNEC	Marine sediments	3.46 mg/kg	-	-

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PNEC	Soil (agricultural)	2.8 mg/kg	-	-
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## 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are in place.

**Respiratory protection:** Respiratory protection not required.

**Hand protection:** Impermeable gloves. EN 374-1:2003

**Eye protection:** Tightly fitting safety goggles. EN 16321: 2025 Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

**Environmental:** Prevent from entering in public sewers or the immediate environment. Ensure all engineering measures mentioned in section 7 of SDS are in place.

## Section 9: Physical and chemical properties

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

**State:** Liquid

**Colour:** Colourless

**Odour:** Odourless

**Boiling point/range°C:** x

**Relative density:** x

**pH:** x

### 9.2. Other information

**Other information:** Not applicable.

## Section 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 reactions

**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. Flames.

### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes.

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### Section 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Hazardous ingredients:

##### 2-BUTOXYETHANOL

DERMAL	RAT	LD50	200 - 2000	mg/kg
ORAL	GPG	LD50	1414	mg/kg
ORAL	RAT	LD50	1300	mg/kg
VAPOURS	GPG	LDLO	> 3.1	mg/l
VAPOURS	RAT	4H LC50	20	mg/l

##### Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	DRM	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

#### Symptoms / routes of exposure

**Skin contact:** There may be mild irritation at the site of 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. There may be severe pain. The vision may become blurred. May cause permanent damage.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be difficulty swallowing.

**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.

### Section 12: Ecological information

#### 12.1. Toxicity

##### Hazardous ingredients:

##### 2-BUTOXYETHANOL

Daphnia magna	48H EC50	1550	mg/l
GREEN ALGA (Selenastrum capricornutum)	72H ErC50	1840	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	1474	mg/l

#### 12.2. Persistence and degradability

**Persistence and degradability:** The biodegradability of the surfactants contained in this product are in accordance with the requirements of the EU Detergent Regulation (EC/648/2004).

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#### **12.3. Bioaccumulative potential**

**Bioaccumulative potential:** No data available.

#### **12.4. Mobility in soil**

**Mobility:** No data available.

#### **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:** Negligible ecotoxicity.

### **Section 13: Disposal considerations**

#### **13.1. Waste treatment methods**

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company. Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the other possible disposal operations (e.g. evaporation, drying, calcination, etc.).

**Recovery operations:** Solvent reclamation/regeneration. Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes). Recovery of components used for pollution abatement.

**Waste code number:** 16 03 03

**Disposal of packaging:** May be reused following decontamination. Clean with water. Dispose of as normal industrial waste.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

### **Section 14: Transport information**

**Transport class:** This product does not require a classification for transport.

### **Section 15: Regulatory information**

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

**Specific regulations:** Not applicable.

#### **15.2. Chemical Safety Assessment**

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

### **Section 16: Other information**

#### **Other information**

**Other information:** \* indicates text in the SDS which has changed since the last revision.

SAFETY DATA SHEET - According to REACH Regulation (EC) No. 1907 / 2006 as

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ammended by UK REACH Regulations UK SI 2019 / 758.

CLASSIFICATION - According to CLP Regulation (EC) No. 1272 / 2008 as amended by GB CLP Regulation UK SI 2019 / 720 and UK SI 2020 / 1567

LABELLING - According to CLP Regulation (EC) No. 1272 / 2008 as amended by GB CLP Regulation UK SI 2019 / 720 and UK SI 2020 / 1567  
Relevant EU provisions transposed into retained GB Law

**Phrases used in s.2 and s.3:** H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H411: Toxic to aquatic life with long lasting effects.

**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.