

Revision Date: 11/11/2011**Revision Number:** 2**Material/Trade Name:** FUEL SET – *also known as* FCC (Fuel Conditioner Concentrate)

1 – Identification of Substance/Mixture and of the Company/Undertaking

Material/Trade Name : Fuel Set
Material type : Fuel Conditioner
Company : Liquid Engineering EU Ltd.
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2 – Hazards Identification

Classification of the substance or mixture

According to Regulation (EC) No.1272/2008

Eye Irritation (Category 2)

H319

Causes serious eye irritation

Specific target organ toxicity - single exposure (Category 3)

H335

May cause respiratory irritation

According to European Directive 67/548/EEC as amended

Xi; Irritant

R36

Irritating to eyes

R37

Irritating to respiratory system

3 - Composition

CAS No.	EC No.	Index No.	Classification	Concentration
2-(2-Butoxyethoxy)ethanol				
112-34-5	203-961-6	603-096-00-8	Eye Irrit.2 H319 Xi: R36	20-30%
Ethoxylated, nonylphenol				
9016-45-9	500-024-6	[-]	Eye Irrit. 2; STOT SE 3; Aquatic Acute 1 H319, H335, H400 Xi;41-37 H;R50	40-50%
Dipropylene glycol monomethyl ether				
34590-94-8	252-104-2	[-]	[-]	20-30%
Methanol				
67-56-11	200-659-6	603-001-00-X	Carc. 2; Acute Tox. 4; Aquatic Acute 1; Aquatic Chronic 1 H225, H301, H311, H331, H370 F;R11 T;R23/24/25-39/23/24/25	<3%

For the full text of the H-Statements & R Phrases mentioned in this Section, see Section 16. Acute aquatic toxicity of the overall mixture is calculated in accordance with the bridging principles established by Part 4.1.3.4.1 of Annex I of the CLP Regulations.

4 - First-aid Measures

Inhalation:

Remove to fresh air and rest. If recovery is not rapid call for prompt medical attention. Show this safety data sheet to medical personnel.

Eyes:

Irrigate with water for at least 15 minutes. Take care not to wash chemical from one eye to another. Seek medical attention immediately.

Skin:

Remove contaminated clothing. Wash with soap/cleanser and rinse with plenty of water. If irritation persists, obtain medical attention.

Ingestion:

Do not induce vomiting. Give plenty of water to drink. Seek medical attention immediately

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5 - Fire-fighting Measures

Suitable Extinguishers

Use media such as alcohol/aqueous foam, dry chemical, or carbon dioxide or water spray/fog. For large fires, solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Unsuitable Extinguishers

Direct water jets may be ineffective under certain conditions.

Hazardous Decomposition

Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion

Special Procedures/information for firefighters

Do not breathe decomposition products and fumes. Use approved self-contained breathing apparatus. Wear fire retardant clothing. Do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus. Use water spray to cool containers. Prevent runoff from fire control from entering waterways. Large fires should only be dealt with by trained personnel.

6 - Accidental Release Measures

Personal Protection and Precautions

Use suitable personal protective equipment (refer to Section 8 for details). Avoid breathing vapours. Ensure adequate ventilation.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains or watercourses. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Containment, Cleaning up and Disposal Considerations

Absorb in inert material such as sand or non-combustible absorbent granules. Scoop up and place in plastic container to await transfer. Refer to Section 13 for further information regarding disposal.

7 - Handling and Storage

Handling

Avoid contact with skin and eyes and excessive inhalation of vapour.

Storage

Keep container tightly closed in a dry and well-ventilated place.

8 - Exposure Controls/Personal Protection

Occupational Exposure Limit: 67.5mg/m³ 8hrTWA, 101.2 mg/m³ 15minSTEL 2-(2-Butoxyethoxy)ethanol WEL
266mg/m³ 8hrTWA, 3332 mg/m³ 15minSTEL Methanol WEL Sk
308mg/m³ 8hrTWA Dipropylene glycol monomethyl ether WEL Sk

Respiratory Protection

Use in well ventilated areas. Use mechanical ventilation if possible. If excessive inhalation is likely then use a respirator with filter type A to Standard EN14593/4, EN405 or equivalent

Hand Protection

Wear Nitrile, polythene or PVC to Standard EN 374 (breakthrough time for total immersion 4 to 8 hours).

Eye Protection

Wear suitable eye protection such as safety glasses or goggles to Standard BS EN 166 if splash or eye contact likely.

Skin Protection

After contact with skin wash off immediately. Wash hands before breaks and immediately after using the product.

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9 - Physical & Chemical Properties

Appearance	: Green liquid.	Oxidising properties	: None
Odour	: Eucalyptus	Vapour pressure	: : n/e
pH	: n/e	Relative density	: 0.98at 20°C
Boiling point/range	: n/e	Solubility	: n/e
Melting point/range	: n/e	Partition Coefficient	: n/e
Flash point	: n/e	Vapour Density	: n/e
Flammability	: NON FLAMMABLE	Viscosity	: n/e
Autoflammability	: n/e	Evaporation rate	: n/e
Explosive properties	: n/e		

(n/e = not established)

10 - Stability and Reactivity

Chemical Stability

Stable at normal temperatures and under recommended storage conditions.

Conditions to Avoid

Sources of ignition & direct sunlight.

Materials to Avoid

Strong oxidising agents and strong acids.

Hazardous Decomposition Products

No hazardous decomposition products when stored and handled correctly. Hazardous decomposition products formed under fire conditions are highly dependent on combustion conditions.

11 - Toxicological Information

Acute toxicity

LD50 Oral - rat – <2000 mg/kg (Derived)

Skin corrosion/irritation

May cause skin irritation following prolonged or repeated exposure

Serious eye damage/eye irritation

Irritating to eyes

Respiratory or skin sensitisation

Not expected to be a skin sensitiser

Germ cell mutagenicity/Reproductive toxicity

Not expected to show mutagenic or reprotoxic effects

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

No adverse effects expected.

Aspiration hazard

No adverse effects expected.

Potential health effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion Harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes Causes eye irritation.

Signs and Symptoms of Exposure

Ingestion may cause nausea and. Inhalation of large amounts of vapours will cause respiratory irritation and distress.

Contact with eyes will cause severe acute irritation.

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12 - Ecological Information

Toxicity

Not expected to be particularly hazardous to aquatic life

Persistence and degradability

Not persist in the environment

Mobility in soil

No data available

PBT and vPvB assessment

No data available

Bioaccumulative potential

Not expected to have significant bioaccumulation potential

Other adverse effects

No data available

13 -Disposal Considerations

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber. Material is classified as hazardous waste under the Hazardous Waste Regulations 2005. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14 -Transport Information

Not classified as hazardous for transport

15 - Regulatory Information

Label Elements

Signal Word Warning

Hazard Statement(s)

H319 Causes serious eye irritation

H335 May cause respiratory irritation

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

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

Other Regulations

Health & Safety at Work etc. Act 1974

Control of Substances Hazardous to Health Regulations 2002 (as amended)

Chemicals (Hazard Information and Packaging for Supply) Regulations 2009

Classification, Labelling and Packaging of Substances and Mixtures Regulations 2008 (as amended)

EH40/2005 Workplace Exposure Limits (as amended)

Environmental Protection Act 1990

Hazardous Waste Regulations 2005

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16 - Other Information

Text of H-code(s) and R-phrases mentioned in Section 3 including those which do not appear in the classification in Section Two

H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H370	Causes damage to organs
H400	Very toxic to aquatic life
R11	Highly Flammable
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R39/23/24/25	Toxic: danger of very serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed
R22	Harmful if swallowed
R41	Risk of serious damage to eyes
R36	irritating to eyes
R37	Irritating to respiratory system
R50	Very toxic to aquatic organisms

Recommended restrictions on use

Use in accordance with manufacturer's technical instructions.

Revision History

This data sheet replaces Revision 1 of 7/11/2011. Principle changes are to apply environmental classification of the mixture by the bridging principles established with the requirements of EC/1907/2006 and EC/1272/2008

Further Information

Contains Tartrazine. May produce an Allergic reaction.

The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and for people working with or handling these products. This information is believed to be reliable and updated at Revision Date, and represents the best information currently available and known by Liquid Engineering EU Ltd. (LEL). However, LEL makes no guarantee or warranty, express or implied, with respect to such information and we assume no liability resulting from its use. The information related herein is based on proper handling and anticipated uses and is for the material without chemical additions or alterations. Users should make their own investigations to determine the suitability of the information for their particular purposes. It is the responsibility of the user to undertake a suitable risk assessment/COSHH assessment prior to using this material