

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

1.1 Product identifiers

Product name : Fuel Set FCC

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

Identified uses : Fuel Conditioner

1.3 Details of the supplier of the safety data sheet

Company : Liquid Engineering EU Ltd.
Romsey Road
Whiteparish
Wiltshire
SP5 2SA
UNITED KINGDOM

Telephone : +44(0) 1794 884963 (09:00 – 17:00 weekdays)

Internet : www.liquideng.eu

E-mail address : lking@liquideng.eu

1.4 Emergency telephone number

Emergency Phone # : +44(0) 1794 884963 (09:00 – 17:00 weekdays)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Acute toxicity (Category 4)

Skin irritation (Category 2)

Eye irritation (Category 2)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Harmful if swallowed. Irritating to eyes and skin.

As the C10 alcohol ethoxylate present is readily biodegradable in accordance with Test Methods OECD 301 A-F Fuel Set FCC is not classified as possessing aquatic chronic toxicity (category 2) in accordance with Part 4.1 of annex I of EC/1907/2006 (as amended).

2.2 Label elements

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

Pictogram



Signal word : Warning

Hazard statement(s)

H302 : Harmful if swallowed

H315 : Causes skin irritation.

H319 : Causes serious eye irritation

Precautionary statement(s)

P280 : Wear protective gloves/ protective clothing.

P301 + 312 : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Supplemental Hazard Statements

Contains 1-Phenylazo-2-naphthol. May produce an allergic reaction.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Component	Classification	Concentration
2-(2-Butoxyethoxy)ethanol		
CAS-No. 112-34-5 EC-No. 203-961-6 Index-No. 603-096-00-8	Eye Irrit. 2; H319; Xi; R36	20-30 %
C10 Alcohol Ethoxylate (α-(2-propylheptyl)-ω-Poly(oxy-1,2-ethanediyl))		
CAS-No. 160875-66-1 EC-No. [-] Index-No. [-]	Acute Tox.4; Eye irrit. 2; Skin Irrit. 2; H302, H315, H319 Xn; R22 Xi; R36/38	40-50 %
Dipropylene glycol monomethyl ether		
CAS-No. 34590-94-8 EC-No. 252-104-2 Index-No. [-]	[-] [-]	20-30 %
Methanol		
CAS-No. 67-56-1 EC-No. 200-659-6 Index-No. 603-001-00-X	Flam. Liq. 2; Acute Tox. 3; STOT SE 1 H225, H331, H311; H301; H370 R11 T; R23/24/25 – 39/23/24/25	<3 %

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled

If vapour or mists are breathed in, move person into fresh air. If recovery is not rapid call for prompt medical attention. Show this safety data sheet to medical personnel. If not breathing, give artificial respiration.

In case of skin contact

Remove contaminated clothing. Wash off with soap and plenty of water. If irritation persists seek further medical attention.

In case of eye contact

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

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek prompt medical attention.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties of the mixture have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

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.

5.2 Special hazards arising from the substance or mixture

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.

5.3 Advice 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. Use water fog to disperse vapours and leaks that have not ignited. Prevent runoff from fire control from entering waterways. Large fires should only be dealt with by trained personnel.

5.4 Further information

No data available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains or watercourses.

6.3 Methods and materials for containment and cleaning up

Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

No data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

67.5mg/m³ 8hrTWA, 101.2 mg/m³ 15minSTEL 2-(2-Butoxyethoxy)ethanol WEL
266mg/m³ 8hrTWA, 333 mg/m³ 15minSTEL Methanol WEL Sk
308mg/m³ 8hrTWA Dipropylene glycol monomethyl ether WEL Sk

8.2 Exposure controls

Appropriate engineering controls

Use in well ventilated areas. Use mechanical ventilation in poorly ventilated areas.

Personal protective equipment

Eye/face Protection

Use equipment for eye protection tested and approved under appropriate standards such as EN 166.

Skin Protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with good practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Recommended glove types include Polythene, PVC and Nitrile gloves.

Body Protection

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection

Where risk assessment in accordance with the hierarchy of controls established within the Chemical Agents Directive shows a requirement for respirators as a means of control use an organic filter type A.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Form: Green liquid
b) Odour	Eucalyptus
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	no data available
g) Flash point	>61 °C
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	0.98 @ 20 °C
n) Water solubility	no data available
o) Partition coefficient: (n- octanol/water)	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties	None
t) Oxidizing properties	None

9.2 Other safety information

No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available on mixture.

10.2 Chemical stability

Expected to be stable at normal temperatures and under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

High temperature (>50 °C), sources of ignition & direct sunlight.

10.5 Incompatible materials

Strong oxidising agents and strong acids.

10.6 Hazardous decomposition products

No hazardous decomposition products when stored and handled correctly.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD₅₀ (Oral) >200 to 2000 mg/kg

Skin corrosion/irritation

No data available on mixture. Primary skin irritant.

Serious eye damage/eye irritation

No data available on mixture. Primary eye irritant.

Respiratory or skin sensitisation

Contains low levels of 1-Phenylazo-2-naphthol which may cause an allergic reaction in sensitised individuals.

Germ cell mutagenicity

No data available

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.

Reproductive toxicity

No data available.

Specific target organ toxicity - single exposure

No data available on mixture.

Specific target organ toxicity - repeated exposure

No data available.

Aspiration hazard

No data available on mixture. Will not pose an aspiration hazard.

Potential health effects

Inhalation	Excessive inhalation may cause transient respiratory tract irritation and/or light headedness.
Ingestion	Harmful if swallowed.
Skin	Causes skin irritation.
Eyes	Causes severe 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. Contact with skin will cause irritation.

Additional Information

Not available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available on mixture. Not expected to be particularly hazardous to aquatic life

12.2 Persistence and degradability

Components of this mixture are readily biodegradable in accordance with OECD 301 A-F

12.3 Bioaccumulative potential

Not expected to have a significant bioaccumulative potential.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

Recommended restrictions on use

Use in accordance with manufacturer's technical instructions.

Revision History

Issue 1.1 Removes "Draft New Improved" from product name

Further Information

Contains 1-Phenylazo-2-naphthol. 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