

**SAFETY DATA SHEET**

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier**

Product Name Fuel Bright Diesel Premium.  
CAS No. Not applicable.  
EC No. Not applicable.  
REACH Registration No. Not known.

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

Identified Use(s) Industrial use, Professional use – Fuel additives.  
Uses Advised Against Not known.

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

Company Identification THOMAS GROUP LTD.  
93 Ellingham Industrial Estate  
Ashford, Kent  
TN23 6LZ England  
Telephone +44(0)1233 642816  
Fax +44(0)1233 645024  
E-mail info@fuelbright.co.uk  
Website www.fuelbright.co.uk

**1.4 Emergency telephone number**

Company +44(0)7521 979021  
National Poisons Information Service 111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland)  
(NHS Direct)

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

Regulation (EC) No. 1272/2008 (CLP) Skin Irrit. 2 :Causes skin irritation.  
Eye Irrit. 2 :Causes serious eye irritation.  
Acute Tox. 4 :Harmful if inhaled.  
STOT SE 3 :May cause respiratory irritation.  
Aquatic Chronic 3 :Harmful to aquatic life with long lasting effects.

**2.2 Label elements**

According to Regulation (EC) No. 1272/2008 (CLP)  
Product Name Fuel Bright Diesel Premium.

Hazard Pictogram(s)



GHS07

Signal Word(s)

Warning.

Hazard Statement(s)

H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H332: Harmful if inhaled.  
H335: May cause respiratory irritation.  
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement(s)

P261: Avoid breathing vapours.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**2.3 Other hazards**

None known.

**2.4 Additional Information**

For full text of H/P Statements see section 16.



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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1 Substances

Not applicable.

## 3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
2-ethylhexan-1-ol	104-76-7	203-234-3 01-2119487289-20-XXXX	70 - 100	Skin Irrit. 2 H315 Eye Irrit. 2 H319 Acute Tox. 4 H332 STOT SE 3 H335	GHS07
2-ethylhexyl nitrate	27247-96-7	248-363-6 01-2119539586-27-XXXX	15 - 25	Acute Tox. 4 H302 Acute Tox. 4 H312 Acute Tox. 4 H332 Aquatic Chronic 2 H411	GHS07 GHS09

## SECTION 4: FIRST AID MEASURES

## 4.1 Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
Skin Contact	Take off contaminated clothing and wash it before reuse. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Wash out mouth with water. If symptoms occur obtain medical attention.

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

Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

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

Unlikely to be required but if necessary treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

## 5.1 Extinguishing media

Suitable Extinguishing media	Extinguish preferably with foam, carbon dioxide or dry chemical. Water can be used to cool and protect exposed material.
Unsuitable extinguishing media	Do not use water jet.

## 5.2 Special hazards arising from the substance or mixture

Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide, Smoke and other products of incomplete combustion.

## 5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions. Keep fire exposed containers cool by spraying with water.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation to avoid build-up of vapours. Avoid breathing vapours. Wear appropriate personal protective equipment, avoid direct contact. Take off contaminated clothing and wash it before reuse.

## 6.2 Environmental precautions

Avoid release to the environment.

## 6.3 Methods and material for containment and cleaning up

Absorb spillages onto sand, earth or any suitable adsorbent material. Collect spillage. Transfer to a container for disposal or recovery.

## 6.4 Reference to other sections

See Also Section 8, 13.

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**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Eliminate sources of ignition. Use only outdoors or in a well-ventilated area. Avoid breathing vapours. Avoid contact with skin and eyes. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.

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

Storage temperature: Keep in a cool, well-ventilated place. 0°C – 49 °C  
 Storage life: Temperature class: T3  
 Incompatible materials: Stable under normal conditions.  
 Strong oxidising agents.

**7.3 Specific end use(s)**

Industrial use, Professional use – Fuel additives.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
2-ethylhexan-1-ol	104-76-7	1	5.4			
2-ethylhexan-1-ol	104-76-7	1	5.4	0	0	IOELV

Region: EU, United Kingdom  
 Source: EU Occupational Exposure Limits, UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

Remark: IOELV  
 Notes: Indicative Occupational Exposure Limit Value

**8.2 Exposure controls**

8.2.1. Appropriate engineering controls: Use with ventilation, local exhaust ventilation or breathing protection.

8.2.2. Personal protection equipment  
 Eye Protection: Wear eye protection with side protection (EN166).



Skin protection: Wear protective clothing and gloves: Nitrile rubber, PVC  
 Breakthrough time of the glove material: refer to the information provided by the gloves' producer.  
 Recommended: 240 - >480 minutes. Thickness: >0.55 mm (Nitrile rubber)  
 Thickness: >0.8 mm (PVC)



Respiratory protection: Where engineering controls are not fitted or inadequate wear suitable respiratory protective equipment.



Thermal hazards: Not applicable.



8.2.3. Environmental Exposure Controls: Avoid release to the environment.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

Appearance	Liquid.
	Colour : Dark amber.
Odour	Pungent.
Odour threshold	Not established.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash Point	79°C [Closed cup]
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Bulk Density	0.95 g/ml @ 25°C
Relative density	0.93-0.97 @ 15.6°C
Solubility(ies)	Solubility (Water) : Insoluble. Solubility (Other) : Not known.
Partition coefficient: n-octanol/water	Log Pow: 2.9 (2-ethylhexan-1-ol)
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	6 mm <sup>2</sup> /s @ 40°C 8.5 mm <sup>2</sup> /s @ 20°C 19 mm <sup>2</sup> /s @ 0°C
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
<b>9.2 Other information</b>	
Pour Point (°C)	-51

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity**

Stable under normal conditions.

**10.2 Chemical Stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known if used for its intended purpose.

**10.4 Conditions to avoid**

Keep away from heat, sources of ignition and direct sunlight.

**10.5 Incompatible materials**

Strong oxidising agents.

**10.6 Hazardous decomposition products**

No hazardous decomposition products known.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

Acute toxicity - Ingestion	Low oral toxicity. ATE <sub>mix</sub> : 2604 mg/kg
Acute toxicity - Skin Contact	Low acute toxicity. ATE <sub>mix</sub> : 5729 mg/kg
Acute toxicity - Inhalation	Harmful if inhaled. ATE <sub>mix</sub> (4 hour(s)): 11 mg/l
Skin corrosion/irritation	Causes skin irritation. No data.
Serious eye damage/irritation	Causes serious eye irritation. No data.
Skin sensitization data	It is not a skin sensitiser.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	No evidence of reproductive effects.
Lactation	Not classified.
STOT - single exposure	May cause respiratory irritation. No data.
STOT - repeated exposure	None anticipated.
Aspiration hazard	Not classified.

**11.2 Other information**

None known.

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**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Toxicity - Fish	Harmful to aquatic life with long lasting effects. No data.
Toxicity - Aquatic plants	Not classified.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

**12.2 Persistence and Degradation**

Part of the components are biodegradable.

**12.3 Bioaccumulative potential**

No information on this formulation.  
2-ethylhexan-1-ol: The substance has low potential for bioaccumulation.  
Log Pow: 2.9

**12.4 Mobility in soil**

Insoluble in water. The product is predicted to have low mobility in soil.

**12.5 Results of PBT and vPvB assessment**

Not classified as PBT or vPvB.

**12.6 Other adverse effects**

Not known.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

Dispose of this material and its container as hazardous waste. Dispose of wastes in an approved waste disposal facility.

**13.2 Additional Information**

Disposal should be in accordance with local, state or national legislation.

**SECTION 14: TRANSPORT INFORMATION**

**Not classified as hazardous for transport.**

**14.1 UN number**

Not applicable

**14.2 UN proper shipping name**

Not applicable

**14.3 Transport hazard class(es)**

Not applicable

**14.4 Packing group**

Not applicable

**14.5 Environmental hazards**

Not classified as a Marine Pollutant.

**14.6 Special precautions for user**

Not known

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not known

**SECTION 15: REGULATORY INFORMATION**

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

European Regulations - Authorisations and/or Restrictions On Use	
Candidate List of Substances of Very High Concern for Authorisation	Not listed
REACH: ANNEX XIV list of substances subject to authorisation	Not listed
REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not listed
Community Rolling Action Plan (CoRAP) Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants	2-ethylhexan-1-ol (104-76-7) Not listed
Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer	Not listed

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Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals	Not listed
<b>National regulations</b>	
Other	Not known.
<b>15.2 Chemical Safety Assessment</b>	Not applicable.

**SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: 1-16

**LEGEND**

Hazard Pictogram(s)



GHS07

GHS09: GHS: Environment

Hazard classification

Acute Tox. 4 : Acute toxicity, Category 4  
 Acute Tox. 4 : Acute toxicity, Category 4  
 Skin Irrit. 2 : Skin corrosion/irritation, Category 2  
 Eye Irrit. 2 : Serious eye damage/irritation, Category 2  
 Acute Tox. 4 : Acute toxicity, Category 4  
 STOT SE 3\_H335 : Specific target organ toxicity — single exposure, Category 3  
 Aquatic Chronic 2 : Hazardous to the aquatic environment, Chronic, Category 2  
 Aquatic Chronic 3 : Hazardous to the aquatic environment, Chronic, Category 3

Hazard Statement(s)

H302: Harmful if swallowed.  
 H312: Harmful in contact with skin.  
 H315: Causes skin irritation.  
 H319: Causes serious eye irritation.  
 H332: Harmful if inhaled.  
 H335: May cause respiratory irritation.  
 H411: Toxic to aquatic life with long lasting effects.  
 H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement(s)

P261: Avoid breathing vapours.  
 P264: Wash hands and exposed skin thoroughly after handling.  
 P271: Use only outdoors or in a well-ventilated area.  
 P273: Avoid release to the environment.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P352: IF ON SKIN: Wash with plenty of water.  
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P312: Call a POISON CENTER/doctor if you feel unwell.  
 P332+P313: If skin irritation occurs: Get medical advice/attention.  
 P337+P313: If eye irritation persists: Get medical advice/attention.  
 P362+P364: Take off contaminated clothing and wash it before reuse.  
 P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
 P405: Store locked up.

Acronyms

P501: Dispose of contents in accordance with local, state or national legislation.  
 ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road  
 CAS : Chemical Abstracts Service  
 CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  
 EC : European Community



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EINECS : European Inventory of Existing Commercial Chemical Substances  
IATA : International Air Transport Association  
IBC : Intermediate Bulk Container  
ICAO : International Civil Aviation Organization  
IMDG : International Maritime Dangerous Goods  
LTEL : Long term exposure limit  
PBT : Persistent, Bioaccumulative and Toxic  
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID : Regulations concerning the International Carriage of Dangerous Goods by Rail  
STEL : Short term exposure limit  
STOT : Specific Target Organ Toxicity  
UN : United Nations  
vPvB : very Persistent and very Bioaccumulative

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