

Fuel for use in boilers, gas turbines & other combustion equipment

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 and SI 2020/1577

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Product Name(s)	Ultra35, Ignite, OpenFlame, Powerflame, GreenFlame, R50, R100
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)	Fuel for use in boilers, gas turbines and other combustion equipment
Uses Advised Against	Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer	
Company Identification	ESL Fuels Ltd
Address of Manufacturer	Building 102 Thornton Science Park, Pool Lane
Postal code	CH2 4NU
Telephone:	0151 601 5201
Fax	Not known.
E-mail	INFO@ESLFUELS.NET
Office hours	09:00 - 17:00

1.4 Emergency telephone number

Emergency Phone No.	0151 601 5201
Contact	Technical Dept
National response centre	
Address	NHS Direct
Emergency Phone No.	+44 111

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	Flam. Liq. 3 :Flammable liquid and vapour. Asp. Tox. 1 :May be fatal if swallowed and enters airways. Skin Irrit. 2 :Causes skin irritation. Skin Sens. 1B :May cause an allergic skin reaction. Eye Irrit. 2 :Causes serious eye irritation. STOT SE 3 :Specific target organ toxicity — single exposure, Category 3. Aquatic Chronic 2 :Toxic to aquatic life with long lasting effects.
---	--

2.2 Label elements

According to GB CLP Regulations, UK SI 2019/720 and UK SI 2020/1567	
Product Name(s)	Ultra35, Ignite, OpenFlame, Powerflame, GreenFlame, R50, R100

Fuel for use in boilers, gas turbines & other combustion equipment

Hazard Pictogram(s)



GHS02



GHS08



GHS07



GHS09

Signal Word(s)

Danger

Hazard Statement(s)

H226: Flammable liquid and vapour.
 H304: May be fatal if swallowed and enters airways.
 H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H319: Causes serious eye irritation.
 H336: May cause drowsiness or dizziness.
 H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE/doctor.
 P302+P352: IF ON SKIN: Wash with plenty of water.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 P331: Do NOT induce vomiting.
 P333+P313: If skin irritation or rash 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.
 P370+P378: In case of fire: Use foam, dry powder or carbon dioxide to extinguish.
 P501: Dispose of contents in accordance with local, state or national legislation.

2.3 Other hazards

None known.

2.4 Additional Information

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

Fuel for use in boilers, gas turbines & other combustion equipment

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / Registration number(s)	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Distillates (petroleum), light catalytic cracked Cracked	64741-59-9	265-060-4	0-100	Flam. Liq. 3 H226 Asp. Tox. 1 H304 Skin Irrit. 2 H315 Acute Tox. 4 H332 Carc. 1B H350 STOT RE 2 H373 Aquatic Acute 1 H400 Aquatic Chronic 1 H410	GHS02 GHS08 GHS07 GHS09
Fuels, diesel Gasoil	68334-30-5	269-822-7	0-100	Asp. Tox. 1 H304 Skin Irrit. 2 H315 Acute Tox. 4 H332 Carc. 2 H351 STOT RE 2 H373 Aquatic Chronic 2 H411	GHS08 GHS07 GHS09
Kerosine (petroleum)	8008-20-6	232-366-4	0-100	Flam. Liq. 3 H226 Asp. Tox. 1 H304 Skin Irrit. 2 H315 STOT SE 3 H336 Aquatic Chronic 2 H411	GHS02 GHS08 GHS07 GHS09
Distillates (petroleum), full-range straight-run middle	68814-87-9	272-341-5	0-100	Asp. Tox. 1 H304 Acute Tox. 4 H332 STOT RE 2 H373 Aquatic Chronic 2 H411	GHS08 GHS07 GHS09
Renewable hydrocarbons (kerosene type fraction)		931-082-4	0-100	Flam. Liq. 3 H226 Asp. Tox. 1 H304	GHS02 GHS08
Renewable hydrocarbons (diesel type fraction)	928771-01-1	618-882-6	0-100	Asp. Tox. 1 H304	GHS08
Lubricating oils, used	70514-12-4	274-635-9	0-60	Not classified	None
Hydrocarbons, C10-C12, isoalkanes, <2% aromatics		923-037-2	0-50	Flam. Liq. 3 H226 Asp. Tox. 1 H304 Aquatic Chronic 2 H411	GHS02 GHS08 GHS09
Terpineol	8000-41-7	232-268-1	0-12.5	Aquatic Chronic 2 H411	GHS09
Hydrocarbons, terpene processing by-products	68956-56-9	273-309-3	0-12.5	Asp. Tox. 1 H304 Skin Irrit. 2 H315 Skin Sens. 1B H317 Eye Irrit. 2 H319 Aquatic Chronic 2 H411	GHS08 GHS07 GHS09
turpentine, oil	8006-64-2	232-350-7	0-12.5	Flam. Liq. 2 H225 Acute Tox. 4 H302 Asp. Tox. 1 H304 Acute Tox. 4 H312	GHS02 GHS08 GHS07

Fuel for use in boilers, gas turbines & other combustion equipment

				Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 Acute Tox. 4 H332 Aquatic Chronic 1 H410	GHS09
Fatty acids, C14-18 and C16-18-unsatd., Me esters	67762-26-9	267-007-0	0-10	Not classified	None
Fatty acids, rape-oil, distn. residues	100403-30-3	309-572-9	0-10	Not classified.	None
Fatty acids, C16-18 and C18-unsatd., Me esters	67762-38-3	267-015-4	0-10	Not classified	None
Fatty acids, C16-18 and C18-unsatd., Me esters, distn. residues	68604-41-1	271-692-1	0-10	Not classified	None
Lubricating oils Baseoil	74869-22-0	278-012-2	0-10	Not classified	None

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

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 CENTRE/doctor if you feel unwell.
Skin Contact	Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see Medical Advice on this label). Rinse skin with water.
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	Do NOT induce vomiting. Immediately call a POISON CENTRE/doctor.

4.2 Most important symptoms and effects, both acute and delayed

May cause irritation. Allergic contact dermatitis.

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment (see Medical Advice on this label). Call a POISON CENTRE/doctor if you feel unwell. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media	Foam, dry powder or carbon dioxide to extinguish.
Unsuitable extinguishing media	Water jet spray

5.2 Special hazards arising from the substance or mixture

Flammable liquid and vapour. Combustion or thermal decomposition will evolve toxic and irritant vapours.

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.

Fuel for use in boilers, gas turbines & other combustion equipment

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Ensure full personal protection (including respiratory protection) during removal of spillages.

6.2 Environmental precautions

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Contain spillages with sand, earth or any suitable adsorbent material. Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting/equipment. Use non-sparking tools. Take action to prevent static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep cool.

Storage temperature

Ambient.

Storage life

Stable under normal conditions.

Incompatible materials

None known.

7.3 Specific end use(s)

Fuel for use in boilers, gas turbines and other combustion equipment

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Turpentine	8006-64-2	100	566	150	850	

Fuel for use in boilers, gas turbines & other combustion equipment

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

Remark	Notes
--------	-------

8.2 Exposure controls

8.2.1. Appropriate engineering controls Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Use with ventilation, local exhaust ventilation or breathing protection. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment



Eye Protection Wear eye protection with side protection (EN166).



Skin protection Wear protective clothing and gloves: Impervious gloves (EN 374).



Respiratory protection A suitable mask with filter type A (EN14387 or EN405) may be appropriate.



Thermal hazards None known.

8.2.3. Environmental Exposure Controls Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Pale Yellow - Black
Odour	Characteristic
Odour threshold	Not applicable.
pH	Not known.
Melting point/freezing point	Not applicable
Initial boiling point and boiling range	150-400
Flash Point	>38°C
Evaporation rate	Not known.
Flammability (solid, gas)	Not known.
Upper/lower flammability or explosive limits	Not known.
Vapour pressure	Not known.
Vapour density	Not known.
Density (g/ml)	0.820 – 0.850 g/ml

Fuel for use in boilers, gas turbines & other combustion equipment

Relative density	Not known.
Solubility(ies)	Solubility (Water) : Insoluble Solubility (Other) : Not known.
Partition coefficient: n-octanol/water	Not known.
Auto-ignition temperature	Not known.
Decomposition Temperature (°C)	Not known.
Viscosity	2.5 - 10 mm ² /s
Explosive properties	Not known.
Oxidising properties	Not known.

9.2 Other information

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None anticipated.

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

Avoid friction, sparks, or other means of ignition.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion	Calculation method : Not classified. Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 7142.86000
Acute toxicity - Skin Contact	Calculation method : Not classified. Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 15714.29000
Acute toxicity - Inhalation	Calculation method : Not classified. Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 157.14000
Skin corrosion/irritation	Calculation method : Causes skin irritation.
Serious eye damage/irritation	Calculation method : Causes serious eye irritation.
Skin sensitization data	Calculation method : May cause an allergic skin reaction.
Respiratory sensitization data	Calculation method : Not classified.
Germ cell mutagenicity	Calculation method : Not classified.
Carcinogenicity	Calculation method : Not classified.
Reproductive toxicity	Calculation method : Not classified.

Fuel for use in boilers, gas turbines & other combustion equipment

Lactation	Calculation method : Not classified.
STOT - single exposure	Calculation method : May cause drowsiness or dizziness.
STOT - repeated exposure	Calculation method : Not classified.
Aspiration hazard	Calculation method : May be fatal if swallowed and enters airways.

11.2 Other information

Not known.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

Toxic to aquatic life with long lasting effects.

Toxicity - Aquatic invertebrates	Not known.
Toxicity - Fish	Not known.
Toxicity - Algae	Not known.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

12.2 Persistence and degradability

Not known.

12.3 Bioaccumulative potential

Not known.

12.4 Mobility in soil

Not known.

12.5 Results of PBT and vPvB assessment

Not known.

12.6 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Do not allow to enter drains, sewers or watercourses. Do NOT landfill. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Dispose of this material and its container to hazardous or special waste collection point. Dispose at suitable refuse site.

13.2 Additional Information

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

SECTION 14: TRANSPORT INFORMATION**14.1 UN number**

UN No. 1202

Fuel for use in boilers, gas turbines & other combustion equipment

14.2 UN proper shipping name

UN proper shipping name HEATING OIL, LIGHT

14.3 Transport hazard class(es)

ADR/RID

ADR/RID Class	3
ADR Classification Code	F1
Special Provisions	640K 664
Limited Quantities	5 L
Excepted Quantities	E1
Emergency Action Code	3Y
Mixed Packing Instructions for Packages	P001 IBC03 LP01 R001
Special Packing Provisions for Packages	
Mixed Packing Instructions for Packages	MP19
Packing Instructions for Portable Tanks	T2
Special Provisions for Portable Tanks	TP1
Tank Code for Tanks	LGBF
Special Provisions for Tanks	
Vehicle for Tank Carriage	FL
ADR Transport Category	3
Tunnel Restriction Code	D/E
Special Provisions for Carriage - Packages	V12
Special Provisions for Carriage - Bulk	
Special Provisions for Carriage - Loading, Unloading and Handling	
Special Provisions for Carriage - Operation	S2
ADR HIN	30
IMDG	
IMDG Class	3
Special Provisions	640K 664
Limited Quantities	5 L
Excepted Quantities	E1
Mixed Packing Instructions for Packages	P001 IBC03 LP01 R001
Special Packing Provisions for Packages	
Packing Instructions for Portable Tanks	T2
Special Provisions for Portable Tanks	TP1
IMDG EMS	F-E, S-E
Stowage and Handling	Category A

Labels

Labels 3



Fuel for use in boilers, gas turbines & other combustion equipment

14.4 Packing group

Packing group III

14.5 Environmental hazards

Environmental hazards Classified as a Marine Pollutant.

14.6 Special precautions for user

Special precautions for user Not known.

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

No information available

SECTION 15: REGULATORY INFORMATION

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

United Kingdom Regulations - Authorisations and/or Restrictions On Use

UK REACH Candidate List of Substances Not listed

of Very High Concern for Authorisation

UK REACH Authorisation List (Annex XIV) list of substances subject to

authorisation Not listed

UK REACH Restrictions List (Annex XIV) Carcinogens: category 1B (64741-59-9), Carcinogens: category 1B (74869-22-0), Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Distillates (petroleum), full-range straight-run middle (68814-87-9), Kerosine (petroleum) (8008-20-6), Not Applicable, Hydrocarbons, C10-C12, isoalkanes, <2% aromatics (), Hydrocarbons, terpene processing by-products (68956-56-9), turpentine, oil (8006-64-2), Terpeneol (8000-41-7), Fuels, diesel Gasoil (68334-30-5), Renewable hydrocarbons (diesel type fraction) (928771-01-1), Renewable hydrocarbons (kerosene type fraction) ()

The Persistent Organic Pollutants Regulations 2007 (SI 2007/3106) as amended Not listed

The Ozone-Depleting Substances and Fluorinated Greenhouse Gases (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019/583) Not listed

The Prior Informed Consent (PIC) Regulations concerning the export and import of hazardous chemicals SI2008/2108 as amended Not listed

European Regulations - Authorisations and/or Restrictions On Use

15.2 Chemical Safety Assessment

United Kingdom A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Fuel for use in boilers, gas turbines & other combustion equipment

Hazard Pictogram(s)



GHS02



GHS08



GHS07



GHS09

Hazard classification

Flam. Liq. 2 : Flammable liquid, Category 2
 Flam. Liq. 3 : Flammable liquid, Category 3
 Acute Tox. 4 : Acute toxicity, Category 4
 Asp. Tox. 1 : Aspiration hazard, Category 1
 Acute Tox. 4 : Acute toxicity, Category 4
 Skin Irrit. 2 : Skin corrosion/irritation, Category 2
 Skin Sens. 1 : Skin sensitization, Category 1
 Skin Sens. 1B : Skin sensitization, Category 1B
 Eye Irrit. 2 : Serious eye damage/irritation, Category 2
 Acute Tox. 4 : Acute toxicity, Category 4
 STOT SE 3 : Specific target organ toxicity — single exposure, Category 3
 Carc. 1B : Carcinogenicity, Category 1B
 Carc. 2 : Carcinogenicity, Category 2
 STOT RE 2 : Specific target organ toxicity — repeated exposure, Category 2
 Aquatic Acute 1 : Hazardous to the aquatic environment, Acute, Category 1
 Aquatic Chronic 1 : Hazardous to the aquatic environment, Chronic, Category 1
 Aquatic Chronic 2 : Hazardous to the aquatic environment, Chronic, Category 2

Hazard Statement(s)

H225: Highly flammable liquid and vapour.
 H226: Flammable liquid and vapour.
 H302: Harmful if swallowed.
 H304: May be fatal if swallowed and enters airways.
 H312: Harmful in contact with skin.
 H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H319: Causes serious eye irritation.
 H332: Harmful if inhaled.
 H336: Specific target organ toxicity (single exposure) – Category 3.
 H350: May cause cancer.
 H351: Suspected of causing cancer.
 H373: May cause damage to organs through prolonged or repeated exposure.
 H400: Very toxic to aquatic life.
 H410: Very toxic to aquatic life with long lasting effects.

Fuel for use in boilers, gas turbines & other combustion equipment

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE/doctor.
P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P331: Do NOT induce vomiting.
P333+P313: If skin irritation or rash 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.
P370+P378: In case of fire: Use foam, dry powder or carbon dioxide to extinguish.
P501: Dispose of contents in accordance with local, state or national legislation.

Acronyms

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
ATE : Acute Toxicity Estimate
CAS : Chemical Abstracts Service
DNEL : Derived No Effect Level
EC : European Community
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
PNEC : Predicted No Effect Concentration
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

Key literature references and sources for GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567 data used to compile the SDS

Fuel for use in boilers, gas turbines & other combustion equipment

Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. ESL Fuels Ltd gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. ESL Fuels Ltd accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.