

Safety Data Sheet

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



References

Safety Data Sheet for F100, F200, F900,
Approved Classification and Labelling Guide (Sixth edition)
The Chemicals (Hazard Information and Packaging for
Supply) Regulations 2009
Regulation (EC) No1272/2008 of the European Parliament and of the council.

Disclaimer

THE INFORMATION PRESENTED HEREIN IS BELIEVED TO BE ACCURATE, BUT IS NOT WARRANTED TO BE, WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM, IN ADVANCE OF NEED, THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

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XO1410HO Premium Heating Oil Additive

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name:

XO1410HO Premium Heating Oil Additive
(new formulation)

Product Description:

Liquid fuel additive

Trade name:

Premium Heating Oil Additive (XO1410HO)

CAS No.:

No CAS number assigned to mixture

EC No.:

No EC number assigned to mixture

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

Identified use(s):

Liquid fuel additive

1.3 Details of the supplier of the safety data sheet

Company identification:

Fuel Additive Science Technologies Limited
Unit 29 Atcham Business Park,
Upton Magna, Shrewsbury,
Shropshire, SY4 4UG
Tel: +44 1743 761415

1.4 Emergency telephone number

In case of emergency

Tel. 0844 560 5135 (24 hours, 7 days)

2. Hazard Identification

2.1 Classification of the substance or mixture

According to Regulation (EC) No. 1272/2008 (CLP)

Asp Tox 1 H304
Acute Tox. 4; H312,
Skin Sens. 1 H317
Eye Dam. 1 H318
Carc. 2; H351

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Aquatic Chronic 1; H411

According to Directive 67548/EEC & Directive 199/45/EC

Xn, Xi, N
R21
R41
R40
R43
R65
R51/53

2.2 Label elements

2.2.1 According to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictogram(s):



Signal Word:

Danger

Hazard Statement(s):

H304: May be fatal if swallowed and enters airways
H312: Harmful in contact with skin
H317: May cause an allergic skin reaction
H318: Causes serious eye damage
H351: Suspected of causing cancer
H411: Toxic to aquatic life with long lasting effects

Precautionary Statement(s):

P201+P202+P281: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Use personal protective equipment as required.
P261: Avoid breathing mist/vapours/spray.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+ P313: If skin irritation or rash occurs: Get medical advice/ attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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P331: Do NOT induce vomiting.
P308+P313: If exposed or concerned: Get medical advice/attention.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P363: Wash contaminated clothing before reuse.
P405: Store locked up.
P501: Dispose of contents/container to: disposal should be in accordance with local, state or national legislation.

2.2.2 According to Directive 67/548/EEC & Directive 1999/45/EC

Hazard pictogram(s):



Hazard Symbol(s):

Harmful, Irritant, Dangerous to the environment

Risk phrase(s):

R21: Harmful in contact with skin
R41: Risk of serious damage to eyes
R40: Limited evidence of a carcinogenic effect
R43: May cause sensitisation by skin contact
R65: May cause lung damage if swallowed
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety Phrase(s):

S1: Keep locked up
S2: Keep out of the reach of children
S13: Keep away from food, drink and animal feeding stuffs
S23: Do not breathe fumes/vapour
S24/25: Avoid contact with skin and eyes
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S27: Take off immediately all contaminated clothing
S28: After contact with skin, wash immediately with plenty of soap and water
S29: Do not empty into drains

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S35: This material and its container must be disposed of in a safe way
S36: Wear suitable protective clothing
S39: Wear eye/face protection
S51: Use only in well-ventilated areas.
S61: Avoid release to the environment. Refer to special instructions/Safety Data Sheets.
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Other hazards

3. Composition

3.1 Substances

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	Classification
2,6-di-tert-butylpheno	15-24.9	128-39-2	204-884-0	Eye Dam 1; H318 Aquatic Acute: H400 Aquatic Chronic 1; H410
Solvent naphtha (petroleum) heavy aromatic	65-80	64742-94-5	265-198-5	Asp Tox 1; H304
Naphthalene	5-10	91-20-3	202-049-5	Acute Tox 4, H302, Carc 2; H351, Aquatic Chronic 2; H411
Trimethylbenzene	20-24.9	25551-13-7	247-099-9	Acute Tox 4, H302, Acute Tox 4, H312, Skin Irrit. H315, H226
Dicyclohexylamine	≤1	101-83-7	202-980-7	Acute Tox 4, H302, Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Eye Dam. 1; H318 Skin Corr. 1B; H314
1,3,5-Trimethylbenzene	≤1	108-67-8	203-604-4	Aquatic Chronic 2; H411 Eye Irrit. 2; H319 Flam. Liq. 3; H226 STOT SE 3; H335
Benzene, 1,2,4-trimethyl-	≤1	95-63-6	202-436-9	Acute Tox. 4; H332 Aquatic Chronic 2; H411 Eye Irrit. 2; H319 Flam. Liq. 3; H226 Skin Irrit. 2; H315

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					STOT SE 3; H335
N,N'-Disalicylidene-1,2-propanediamine	≤1	94-91-7	202-374-2		Acute Tox. 4; H302 Eye Irrit. 2; H319 Flam. Liq. 3; H226 Skin Sens. 1; H317
4-tert-Butylphenol	≤1	101-83-7	202-679-0		Eye Dam. 1; H318 Skin Corr. 1C; H314 Skin Sens. 1; H317

EC Classification No. 67/548/EC

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	Classification
2,6-di-tert-butylpheno	15-24.9	128-39-2	204-884-0	R41, R50/53
Solvent naptha (petroleum) heavy aromatic	65-80	64742-94-5	265-198-5	R65
Naphthalene	5-10	91-20-3	202-049-5	R11, R22, R40, R50/53
Trimethylbenzene	20-24.9	25551-13-7	247-099-9	R21/22,R38, R10
Dicyclohexylamine	≤1	101-83-7	202-980-7	R22, R34, R50/53
Benzene, 1,2,4-trimethyl-N,N'-	≤1	108-67-8	203-604-4	R10, R20, R36/37/38, R51/53
Disalicylidene-1,2-propanediamine	≤1	95-63-6	202-436-9	
4-tert-Butylphenol	≤1	94-91-7	202-374-2	R10 R22 R36/38 R43 R34, R43

See section 16 for full description of R phrases and H statements.

4. First Aid Measures

4.1 Description of first aid measures

EYE CONTACT:

Remove contact lenses if an applicable.
Wash eyes immediately with plenty of water for at least 30 minutes. Seek medical attention immediately.

SKIN CONTACT:

Remove contaminated clothing immediately.
Rinse affected area with copious amounts of

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water. Then wash area with soap and water for at least 15 minutes. If symptoms persist, obtain medical attention. Discard of or wash thoroughly contaminated clothing.

INGESTION:

Provided the patient is conscious wash mouth out with water and provide patient with 200-300ml of water to drink. Do not induce vomiting. Obtain medical attention immediately.

INHALATION:

Obtain immediate medical attention.
Remove patient from exposure, keep warm and at rest.

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

Harmful, if swallowed and enters airways.

4.3 Indication of any immediate medical attention and special treatments needed:

If swallowed, do not induce vomiting, seek medical attention immediately.

5. Fire-fighting Measures

5.1 Extinguishing Media

Suitable extinguishing media

Foam, CO₂ or dry powder.
For large fire use water.

Unsuitable extinguishing media Do not use water jet.

5.2 Special hazards arising from the substance or mixture

May give off toxic fumes in a fire. Products of combustion include carbon monoxide, carbon dioxide, and various hydrocarbons

5.3 Advice for fire-fighters

Self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Containers of the product should be cooled with water spray.

Flash point: > 65 °C (Closed cup)

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

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Eliminate sources of ignition. Ensure adequate ventilation.
Avoid contact with skin and eyes. Avoid inhalation of vapours. Wear suitable personal protective equipment. Wear appropriate respirator when ventilation is inadequate. (See section 8)

6.2 Environmental precautions

Do not allow product to enter drains, sewers or watercourses. The Environment agency or appropriate body must be alerted should a spillage or uncontrolled release into watercourses occur.

6.3 Methods and materials for containment and clearing up

Use sand, earth or any suitable non-combustible adsorbent material to adsorb spillages. Using non sparking tools transfer the contaminated absorbent material into a container for disposal. The containers used should be plastic lined sealable drums. Containers should be sealed before being disposed of via an authorised waste disposal contractor.

6.4 Other advice

N/A

7. Handling and Storage

7.1 Precautions for safe handling

Provide adequate ventilation, including local extraction to ensure the occupational exposure limit is not exceeded. Use intrinsically sound equipment.

Wear suitable personal protective equipment. Avoid contact with skin and eyes. Avoid inhalation of vapours. (See Section 8)

Do not eat, drink or smoke in the vicinity of the product. Wash exposed skin after use. Contaminated clothing should be thoroughly cleaned or disposed of as hazardous waste.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from heat and sources of ignition. Keep from direct sunlight. Store only in the original container. Store in a cool, well ventilated place. Maximum handling temperature: 50 °C. Empty containers retain product residue and can be hazardous.

Keep away from oxidising agents.

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7.3 Specific end uses(s)

8. Exposure Controls/Personal Protection

8.1 Control parameters

No Occupational Exposure Limit assigned.

8.2 Exposure controls 8.2.1 Engineering controls

Provide adequate ventilation, including local extraction.

8.2.2 Personal Protection

Eye protection:

Goggles which provide complete eye protection.
(EN166)

Hand/skin protection:

Protective gloves (EN 374)

Respiratory protection:

In the case of insufficient ventilation, wear suitable respiratory equipment. (BS EN 14387:2004+A1)

Other protection:

Long sleeve protective clothing. Plastic apron.
Rubber boots.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	colourless
Odour:	aromatic
Flashpoint:	65°C (closed cup)
Auto ignition:	~ 415°C
Melting point:	185 - 215°C
Relative density (water=1):	0.895 @ 15°C
Solubility :	Insoluble in water, soluble in aromatic solvents
Viscosity :	1.55 cSt @ 20 °C
Flammability limits:	Lower: 0.7% Higher: 6%

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9.2 Other information
None

10. Stability and Reactivity

10.1 Reactivity	Will react with strong oxidising agents.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	No information available.
10.4 Conditions to avoid	Keep away from sources of ignition, hot surfaces, direct sun light.
10.5 Incompatible materials	Incompatible with oxidising agents.
10.6 Hazardous decomposition products	Gives off toxic fumes in a fire. products include carbon monoxide and carbon dioxide

11. Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity

Ingestion:	No information available.
Inhalation:	No information available.
Skin Contact:	No information available.
Eye Contact:	No information available.
Skin corrosion/irritation	Irritating.
Serious eye damage/irritation:	Irritating.
Respiratory or skin sensitization:	Not a sensitizer.
Mutagenicity:	There is no evidence of mutagenic potential.
Carcinogenicity:	Limited evidence of carcinogenicity.
STOT-repeated exposure:	No information available.
Aspiration hazard:	Risk of aspiration. Aspiration of liquid may cause pulmonary oedema.
Other information:	No information available.

12. Ecological Information

12.1 Toxicity
LC₅₀, 96Hrs, Fish 1-10mg/l

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EC₅₀: 48 Hrs, Daphnia, 1-10g/l
WGK: Not established.

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|--|---------------------------|
| 12.2 Persistence and degradability | No information available. |
| 12.3 Bioaccumulative potential | No information available. |
| 12.4 Mobility in soil | No information available. |
| 12.5 Results of PBT and vPvB Assessment | No information available. |
| 12.6 Other adverse effects | No information available. |

13. Disposal Considerations

13.1 Waste treatment methods

Empty containers retain product residue and can be hazardous.
Dispose of this material and it's container as hazardous waste. Do not empty into drains. Disposal should be in accordance with local, state or national legislation.

14. Transport Information

- | | |
|--|--|
| 14.1 UN Number | UN 3082 |
| 14.2 UN Proper shipping name | ENVIRONMENTALLY - HAZARDOUS
SUBSTANCE, LIQUID, N.O.S. |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packing group | III |
| 14.5 Environmental hazards | Marine Pollutant |
| 14.6 Special precautions for user | - |

15. Regulatory Information

- | | |
|--|---|
| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture | This Safety Data Sheet was prepared in accordance with EC Regulation (EC) No. 1907/2006., Regulation (EC) No. 1272/2008 (CLP), Directive 67/548/EEC & Directive 1999/45/EC. |
| 15.2 Chemical Safety Assessment | |

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16. Other Information

R Phrases and H Statements used in Section 3

H statements:

H301: Toxic if swallowed
H302: Harmful if swallowed.
H304: May be fatal if swallowed and enters airways.
H311: Toxic in contact with skin.
H312: Harmful in contact with skin
H314: Causes severe skin burns and eye damage
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H332: Harmful if inhaled
H335: May cause respiratory irritation
H351: Suspected of causing cancer.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects
H411: Toxic to aquatic life with long lasting effects.

R phrases:

R22: Harmful if swallowed.
R24: Toxic in contact with skin.
R36/38: Irritating to eyes and skin.
R40: Limited evidence of a carcinogenic effect
R43: May cause sensitisation by skin contact
R65: Harmful: may cause lung damage if swallowed.
R50/53: Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Abbreviations:

CAS = Chemical Abstracts Service

EINECS = European Inventory of Existing Commercial Chemical Substances;