

Product Safety Sheet

XO1248GO Gas Oil Extra

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

1.1 Product identifier

Product name:	XO1248GO Gas Oil Extra
Trade name(s):	Gas Oil Extra (XO1248GO)
Product description:	Liquid fuel additive for diesel or gas oil.
CAS No.:	Not applicable.
EC No.:	Not applicable.
Index No.:	Not applicable.

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

Identified use(s):	Liquid fuel additive for diesel or gas oil.
Uses advised against:	Follow supplier's recommendations on correct use of the product

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:	Fuel Additive Science Technologies Limited Unit 29, Atcham Business Park, Upton Magna, Shrewsbury, Shropshire, SY4 4UG
Telephone:	+44 1743 761415
E-mail:	info@fastexocet.co.uk

1.4 Emergency telephone number

In case of emergency, call:	0844 560 5135 (24 hours, 7 days)
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SECTION 2: Hazard Identification

2.1 Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No. 1272/2008 (CLP)

Acute Tox. 4; H302
Acute Tox. 4; H312
Eye Irrit 2; H319
Acute Tox. 4; H332
Aquatic Chronic 2; H411
EUH066

2.1.2. Classification according to Directive 67/548/EEC & Directive 1999/45/EC

Harmful; Xn; R20/21/22
R66
Dangerous for the environment; N; R51/53

2.2 Label elements

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

Hazard pictogram(s):



Signal Word:

Warning.

Hazard Statement(s):

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

Precautionary Statement(s):

P271: Use only outdoors or in a well-ventilated area.
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.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P337 + P313: If eye irritation persists: Get medical advice/attention.
P501: Dispose of contents/container to: disposal should be in accordance with local, state or national legislation.

Supplemental Hazard information (EU): EUH066: Repeated exposure may cause skin dryness or cracking.

2.2.2. Label according to Directive 67/548/EEC or Directive 1999/45/EC

Hazard symbol(s):



Indication(s) of danger:

Harmful; Dangerous for the Environment.

Risk phrase(s):

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
R66: Repeated exposure may cause skin dryness or cracking.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety Phrase(s):

S23: Do not breathe fumes/vapours.
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
S29: Do not empty into drains
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.

2.3 Other hazards

None known.

SECTION 3: Composition

3.2 Mixtures

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Chemical name	% w/w	CAS No.	EC No.	Index No.	Classification
2-Ethylhexyl nitrate	70-90	27247-96-7	248-363-6	-	Acute Tox 4; H302 Acute Tox 4; H312 Acute Tox 4; H332 Aquatic Chronic 2; H411 EUH044 EUH066
Solvent naphtha (petroleum), heavy arom.	1-5	64742-94-5	265-198-5	649-424-00-3	Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411
Sulfonic acids, petroleum, sodium salts	< 1	68608-26-4	271-781-5	-	Eye Dam. 1; H318
1,2,4-Trimethylbenzene	< 1	95-63-6	202-436-9	601-043-00-3	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335 Aquatic Chronic 2; H411
Naphthalene	< 1	91-20-3	202-049-5	-	Acute Tox. 4; H302 Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

Classification according to Directive 67/548/EEC

Chemical name	% w/w	CAS No.	EC No.	Index No.	Classification
2-Ethylhexyl nitrate	70-90	27247-96-7	248-363-6	-	Xn; R20/21/22 R44 R66 N; R51/53
Solvent naphtha (petroleum), heavy arom.	1-5	64742-94-5	265-198-5	649-424-00-3	Xi; R36/38 Xn; R65 N; R51/53
Sulfonic acids, petroleum, sodium salts	< 1	68608-26-4	271-781-5	-	Xi: R41
1,2,4-Trimethylbenzene	< 1	95-63-6	202-436-9	601-043-00-3	R10 Xn; R20 Xi; R36/37/38 N; R51/53
Naphthalene	< 1	91-20-3	202-049-5	-	Xn; R22 Carc. Cat. 3; R40 N; R50/53

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

SECTION 4: First Aid Measures

4.1 Description of first aid measures

INHALATION:

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

SKIN CONTACT:

Remove contaminated clothing immediately. Rinse affected area with copious amounts of water. Then wash area with soap and water. If symptoms persist, obtain medical attention. Discard or wash thoroughly contaminated clothing.

EYE CONTACT:

Remove contact lenses if applicable. Wash eyes immediately with plenty of water for at least 15 minutes. If symptoms persist, obtain medical attention.

INGESTION:

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

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

Eye contact causes watering, redness and pain. Prolonged skin contact may cause slight irritation, redness and pain. Repeated exposure may cause skin dryness or cracking. Inhalation may cause drowsiness or dizziness. Ingestion may cause irritation to mouth, throat and digestive tract.

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

In case of accident or if you feel unwell, seek medical advice immediately. If in contact with eyes, wash eyes immediately and seek immediate medical attention.

SECTION 5: Fire-fighting Measures

5.1 Extinguishing Media

Suitable extinguishing media: Foam, CO2 or dry powder.
For large fires, use water.

Unsuitable extinguishing media: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Combustible liquid and vapour. Vapour may form explosive mixture with air.

Combustion may liberate toxic fumes: Carbon monoxide, carbon dioxide, various hydrocarbons.

5.3 Advice for fire-fighters

A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep fire exposed containers cool by spraying with water. Do not allow to enter drains, sewers or watercourses.

Flash point: 80°C (Closed cup).

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

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

6.1.2 For emergency responders

Keep unnecessary personnel away. Wear suitable protective clothing (See Section 8). Contaminated clothing should be thoroughly cleaned.

6.2 Environmental precautions

Collect spillage. Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

6.3 Methods and materials for containment and clearing up

6.3.1 For containment

Stop the leak if it is safe to do so. Contain the spillage with sand, earth or any suitable adsorbent material.

6.3.2 For cleaning 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.

6.3.3 Other advice

None.

6.4 Reference to other sections

See Section 8 for personal protective equipment. See Section 13 for waste disposal.

SECTION 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 non-sparking hand tools and intrinsically sound equipment. Avoid breathing fumes/vapours. Avoid contact with skin and eyes. Wear suitable personal protective equipment (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.

7.3 Specific end uses(s)

Liquid fuel additive for diesel or gas oil.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Workplace exposure limits

Source: EH40/2005, 2nd Ed., 2011.

Substance	CAS No.	LTEL (8 hr TWA)		STEL (15 min)		Comments
		ppm	mg/m ³	ppm	mg/m ³	
Trimethylbenzenes, all isomers or mixtures	25551-13-7	25	125	-	-	-

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction.

8.2.2 Personal protection

Eye protection:	Goggles giving complete protection to eyes. (EN 166)
Skin protection:	
Hand protection:	Chemical resistant gloves. (EN 374).
Other:	Long sleeve protective clothing. Plastic apron. Rubber boots.
Respiratory protection:	In the case of insufficient ventilation, wear suitable respiratory equipment. (BS EN 14387:2004+A1)
Thermal hazards:	Wear suitable temperature resistant gloves and protective clothing if the product is heated.

8.2.3 Environmental exposure controls

Inform environmental manager of all incidents involving this product.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Brown liquid.
Odour:	Hydrocarbon.
Odour threshold:	Not available.
pH:	Not applicable.
Melting/freezing point::	Not available.
Initial boiling point and boiling range:	Not available.
Flash point:	80°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.
Relative density:	Approx. 1 (Water = 1)
Solubility(ies):	Immiscible in water. Miscible in aromatic solvents.
Partition coefficient: n-octanol/water:	Log Kow = 4
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
Explosive properties:	Not explosive. Vapour may form explosive mixture with air.
Oxidising properties:	Not oxidising.

9.2 Other information

None.

SECTION 10: Stability and Reactivity

10.1 Reactivity	Reacts with oxidising agents.
10.2 Chemical stability	Stable under normal conditions. Risk of explosion if heated under confinement.
10.3 Possibility of hazardous reactions	No hazardous reactions expected during normal use.
10.4 Conditions to avoid	Keep away from sources of ignition, hot surfaces, direct sunlight. Contact with incompatible materials.
10.5 Incompatible materials	Oxidising agents.
10.6 Hazardous decomposition products	Combustion may liberate toxic fumes: Carbon monoxide, carbon dioxide, various hydrocarbons.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity	Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. No data available on the mixture.
Skin corrosion/irritation	Prolonged contact may cause slight irritation.
Serious eye damage/irritation	Causes serious eye damage.
Skin sensitisation	No evidence of skin sensitisation.
Respiratory sensitisation	No evidence of respiratory sensitisation.
Germ cell mutagenicity	No evidence of mutagenicity.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	No evidence of reproductive toxicity.
Specific Target Organ Toxicity – single exposure	Causes irritation to the respiratory system.
Specific Target Organ Toxicity – repeated exposure	Based on the available data, the classification criteria are not met.

Aspiration hazard

Based on the available data, the classification criteria are not met.

Information on likely routes of exposure**Inhalation**

Harmful if inhaled. May cause respiratory irritation.

Skin contact

Harmful in contact with skin. Prolonged contact may cause slight irritation. Repeated exposure may cause skin dryness or cracking.

Eye contact

Causes serious eye irritation.

Ingestion

Ingestion may cause irritation to mouth, throat and digestive tract.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact causes watering, redness and pain. Prolonged skin contact may cause slight irritation, redness and pain. Repeated exposure may cause skin dryness or cracking. Inhalation may cause drowsiness or dizziness. Ingestion may cause irritation to mouth, throat and digestive tract.

Mixture versus substance information

No data available.

Other information

None.

SECTION 12: Ecological Information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

LC50 (Pimephales promelas): 2.34 mg/l, 96 h
EC50 (Daphnia magna): 0.95 mg/l, 96 h

M factor: 1.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

The product has potential for bioaccumulation
(Log Kow = 4)

12.4 Mobility in soil

Soil mobility is low.

12.5 Results of PBT and vPvB assessment

The product does not contain substances assessed to be PBT or vPvB.

12.6 Other adverse effects

None known.

SECTION 13: Disposal Considerations**13.1 Waste treatment methods**

To be disposed of as hazardous waste. Disposal should be in accordance with local, state or national legislation.

Contaminated adsorbent must be removed in sealed, plastic lined drums and disposed of via an authorised waste disposal contractor. Do not empty into drains; dispose of this material and its container in a safe way.

SECTION 14: Transport Information**ADR**

14.1 UN Number	3082
14.2 UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 2-ethylhexyl nitrate).
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes
14.6 Special precautions for the user	Read SDS and supplier instructions on correct use of the product.

ADN

14.1 UN Number	3082
14.2 UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 2-ethylhexyl nitrate).
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes
14.6 Special precautions for the user	Read SDS and supplier instructions on correct use of the product.

RID

14.1 UN Number	3082
14.2 UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 2-ethylhexyl nitrate).
14.3 Transport hazard class(es)	9
14.4 Packing group	III

14.5 Environmental hazards	Yes
14.6 Special precautions for the user	Read SDS and supplier instructions on correct use of the product.

IATA/ICAO

14.1 UN Number	3082
14.2 UN Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (contains 2-ethylhexyl nitrate).
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes
14.6 Special precautions for the user	Read SDS and supplier instructions on correct use of the product.

IMDG

14.1 UN Number	3082
14.2 UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 2-ethylhexyl nitrate).
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Marine pollutant.
14.6 Special precautions for the user	Read SDS and supplier instructions on correct use of the product.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	The product is not intended to be transported in bulk.

SECTION 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 as amended. The product has been classified in accordance with Regulation (EC) No. 1272/2008 (CLP), Directive 67/548/EEC & Directive 1999/45/EC.
15.2 Chemical Safety Assessment	Not applicable.

SECTION 16: Other Information

Full text of relevant R-phrases and/or H-statements:

Hazard Statement(s):	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. 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.
Supplemental Hazard information (EU):	EUH044: Risk of explosion if heated under confinement. EUH066: Repeated exposure may cause skin dryness or cracking.
Risk phrase(s):	R10: Flammable. R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R36/37/38: Irritating to eyes, respiratory system and skin. R36/38: Irritating to eyes and skin. R37/38: Irritating to respiratory system and skin. R40: Limited evidence of a carcinogenic effect. R41: Risk of serious damage to eyes. R44: Risk of explosion if heated under confinement. 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. R65: May cause lung damage if swallowed. R66: Repeated exposure may cause skin dryness or cracking.

Abbreviations:

CAS: Chemical Abstracts Service;
EINECS: European Inventory of Existing Commercial Chemical Substances
PBT: Persistent, Bioaccumulative and Toxic.
vPvB: Very Persistent and Very Bioaccumulative.

References:

Supplier's Safety Data Sheets for ingredients
Product formulation
Approved Classification and Labelling Guide (Sixth edition)
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009
Regulation (EC) No. 1272/2008 of the European Parliament and of the council.

Disclaimer:

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Version history:

Version:	2.0
Issue date:	28/09/2012
Previous Version:	1.0
Issue date of previous version:	21/09/2011
Sections changed from previous version:	1-16