



Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)

XO1492HO Exocet PHO99 Fragranced

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

1.1 Product identifier

Product name: XO1492HO Exocet PHO99 Fragranced
Trade name(s): Exocet PHO99 Fragranced (XO1492HO)
Product description: Heating oil additive
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): Heating oil additive.
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 24, Atcham Business Park,
Upton Magna, Shrewsbury,
Shropshire, SY4 4UG
Telephone: +44 (0)1743 761415
E-mail: info@fastexocet.co.uk

1.4 Emergency telephone number

In case of emergency, call: +44 (0) 333 333 9962 (UK number, 24 hours, 7 days)



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SECTION 2: Hazard Identification

2.1 Classification of the substance or mixture

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

Flam. Liq. 3, H226
Carc. 2, H351
Eye Damage 1; H318
Skin Sens. 1; H317
Aspiration Toxicity 1; H304
STOT SE3; H336
Aquatic Chronic 2; H411

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

Hazard pictogram(s):



Signal Word:

Danger

Hazard Statement(s):

H226: Flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H351: Suspected of causing cancer.
H336: May cause drowsiness and dizziness.
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

P201: Obtain special instructions before use.
P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking.
P261: Avoid breathing mist/vapours/spray.
P280: Wear protective gloves / protective clothing / eye protection / face protection.
P301 + P310: IF SWALLOWED: Immediately call a doctor/physician.



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P302 + P352: IF ON SKIN: Wash with plenty of soap and 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.

P501: Dispose of contents/container to hazardous waste.

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

2.3 Other hazards

None.

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
Solvent naphtha (petroleum), heavy arom. <i>REACH Registration no.: 01-2119463583-34-0001</i>	48	64742-94-5	918-811-1	-	Asp. Tox. 1; H304 STOT SE3; H336 Aquatic Chronic 2; H411
Xylene <i>REACH Registration no.: 01-2119488216-32</i>	5 - 10	1330-20-7	215-535-7	601-022-00-9	Flam. Liq. 3; H226 Acute Tox. 4; H312 Skin Irrit. 2; H315 Acute Tox. 4; H332
N,N' disalicylidene-1,2-propanediamine	3 - 7	94-91-7	202-374-2	-	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Chronic 2; H411
Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol <i>REACH Registration no.: 01-2119538013-51</i>	2 - 4	-	907-745-9	-	Eye Dam. 1; H318 Aquatic Chronic 1; H410
Vanillin	< 2	121-33-5	204-465-2	-	Eye Irrit. 2; H319
Ethylbenzene	1 - 2	100-41-4	202-849-4	601-023-00-4	Flam. Liq. 2; H225 Acute Tox. 4; H332



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Chemical name	% w/w	CAS No.	EC No.	Index No.	Classification
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	1 - 2		918-481-9	-	Asp. Tox. 1; H304 Flam. Liq. 3; H226
2-ethylhexan-1-ol <i>REACH Registration no.: 01-2119487289-20</i>	1 - 2	104-76-7	203-234-3	-	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Acute Tox. 4; H332 STOT SE3; H335
Hydrocarbons, C10, aromatics, >1% naphthalene <i>REACH Registration no.: 01-2119463588-24</i>	2 - 3	64742-94-5	919-284-0	-	Asp. Tox. 1; H304 STOT SE 3; H336 Carc. 2; H351 Aquatic Chronic 2; H411 EUH066
4-hydroxy-3-methoxy-benzaldehyde	0.5 - 2	121-33-5	204-465-2		Eye Irrit. 2; H319
Pentyl salicylate	0.2 – 0.5	2050-08-0	218-080-2		Acute Tox. 4; H302 Aquatic Chronic 1; H410
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl-indeno[5,6-c]pyran	0.2 – 0.5	1222-05-5	214-946-9		Aquatic Chronic 1; H410
Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclics, < 2% aromatics <i>REACH Registration no.: 01-2119456620-43</i>	< 0.5	64742-47-8	926-141-6	649-422-00-2	Asp. Tox. 1; H304
Hydrocarbons, C10-13, aromatics, > 1% naphthalene <i>REACH Registration no.: 01-2119451151-53</i>	< 0.5	64742-94-5	926-273-4	-	Asp. Tox. 1; H304 Carc. 2; H351 Aquatic Chronic 2; H411
Hydrocarbons, C9, aromatics <i>REACH Registration no.: 01-2119455851-35</i>	< 0.3	64742-95-6	918-668-5	-	Flam. Liq. 3; H226 STOT SE3; H335 STOT SE3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411
Naphthalene	< 0.2	91-20-3	202-049-5	601-052-00-2	Acute Tox. 4; H302 Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

See Section 16 for full description of H statements.



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SECTION 4: First Aid Measures

4.1 Description of first aid measures

INHALATION:	Remove patient to fresh air and keep at rest. If there are breathing problems, seek medical advice.
SKIN CONTACT:	Remove contaminated clothing immediately. Wash affected area with copious amounts of soap and water. Seek medical advice if symptoms persist. Discard or wash thoroughly contaminated clothing.
EYE CONTACT:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical advice.
INGESTION:	Do NOT induce vomiting. Obtain immediate medical attention. Aspiration of material due to vomiting can cause chemical pneumonitis which can be fatal. If vomiting occurs naturally, the patient should lean forward to reduce the risk of aspiration.

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

Vapours may cause drowsiness and dizziness. Aspiration of the product into the lungs can cause fatal chemical pneumonitis. See section 11 of this safety data sheet for further symptoms and effects.

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

Treat symptomatically.

SECTION 5: Fire-fighting Measures

5.1 Extinguishing Media

Suitable extinguishing media:	Foam, CO2 or dry powder.
Unsuitable extinguishing media:	Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Flammable liquid and vapour. Vapours may be heavier than air and may travel along the ground to a distant ignition source and flash back. Containers may rupture on heating. Toxic gases may be formed in a fire.



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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: 56°C.

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 contact with skin and eyes. Avoid inhalation of fumes/vapours. 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 adsorbent 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.



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SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Provide adequate ventilation, including local extraction to ensure any occupational exposure limit is not exceeded. Do not inhale fumes/vapours. Avoid contact with skin and eyes. Wear suitable personal protective equipment (see Section 8). Eliminate sources of ignition and static electricity.

Do not eat, drink or smoke when using this product. Wash exposed skin after use. Contaminated work clothing should not be allowed out of the workplace. 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 locked up. Store only in the original container. Store in a cool, well ventilated place. Empty containers retain product residue and can be hazardous.

See section 10 for incompatible materials.

7.3 Specific end uses(s)

Liquid fuel additive.

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 mins)	
		ppm	mg/m ³	ppm	mg/m ³
Xylene	1330-20-7	50	220	100	441
Ethylbenzene	100-41-4	100	441	125	552

Note: both Xylene and Ethylbenzene can be absorbed through the skin.

Other exposure limits

None.



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DNELs

For Solvent naphtha (petroleum), heavy aromatic:

Industry – Dermal; long term systemic effects: 12.5 mg/kg bw/day
Industry – Inhalation; long term systemic effects: 151 mg/m³
Consumer – Dermal; long term systemic effects: 7.5 mg/kg bw/day
Consumer – Inhalation; long term systemic effects: 32 mg/m³
Consumer – Oral; long term systemic effects: 7.5 mg/kg bw/day

For Xylene:

Industry – Dermal; long term systemic effects: 180 mg/kg bw/day
Industry – Inhalation; long term systemic effects: 442 mg/m³
Industry – Inhalation; short term systemic effects: 77 mg/m³
Industry – Inhalation; short term local effects: 289 mg/m³

PNECs

For Xylene:

Fresh water – 0.327 mg/l
Marine – 0.327 mg/l
Sewage treatment – 6.58 mg/l
Soil – 2.31 mg/kg
Fresh water sediment – 12.46 mg/kg
Marine water sediment – 12.46 mg/l

PEC summary Not available.

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) or face shield.
Skin protection:	Appropriate barrier creams.
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.



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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:	Red / brown liquid.
Odour:	Fragranced.
Odour threshold:	Not available.
pH:	Not available.
Melting/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash point:	56°C
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:	0.939 (Water = 1)
Solubility:	Insoluble in water.
Partition coefficient: n-octanol/water:	Not available.
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.



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SECTION 10: Stability and Reactivity

10.1 Reactivity	Reacts with strong oxidising agents, strong alkalis and acids.
10.2 Chemical stability	Stable under normal conditions.
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 and contact with incompatible materials.
10.5 Incompatible materials	Strong acids and strong oxidising agents.
10.6 Hazardous decomposition products	Combustion may liberate toxic fumes: Carbon monoxide, carbon dioxide, aldehydes, nitrogen oxides.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity	Low acute toxicity.
Skin corrosion/irritation	Mild skin irritant. Prolonged or repeated exposure may cause skin dryness or cracking and dermatitis.
Serious eye damage/irritation	Causes serious eye damage.
Skin sensitisation	May cause an allergic skin reaction.
Respiratory irritation	High concentrations of the mist or vapour may irritate the nose, throat and lungs.
Respiratory sensitisation	No evidence of respiratory sensitisation.
Germ cell mutagenicity	Not classified. The product does not contain substances classified as mutagenic above the classification thresholds.
Carcinogenicity	Naphthalene has been classified as a possible human carcinogen on the basis of sufficient evidence in experimental animals but inadequate evidence in exposed humans.



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Reproductive toxicity	Not classified. The product does not contain substances classified for reproductive toxicity above the classification thresholds.
Specific Target Organ Toxicity – single exposure	Inhalation of high concentrations of vapour or mist may cause headaches, dizziness, nausea, stupor and other central nervous system effects leading to visual impairment, difficulty with breathing and convulsions.
Specific Target Organ Toxicity – repeated exposure	Not classified.
Aspiration hazard	May be fatal if swallowed and enters airways. Pneumonia may result if vomited material containing solvents reaches the lungs.

Information on likely routes of exposure

Inhalation	See above.
Skin contact	See above.
Eye contact	See above.
Ingestion	Swallowing the product may cause nausea, vomiting, diarrhoea and abdominal pain. Can be aspirated into the lungs during swallowing or vomiting, which could result in pulmonary oedema and chemical pneumonitis.

Symptoms related to the physical, chemical and toxicological characteristics See above.

Other information None

SECTION 12: Ecological Information

12.1 Toxicity	Toxic to aquatic life with long lasting effects. Acute toxicity for Solvent naphtha (petroleum), heavy aromatic: LC50/96h (Rainbow trout): 2-5 mg/l (OECD 203) EC50/48h (Daphnia magna): 3-10 mg/l (OECD 202) EC50/72h (Selenastrum capricornutum): 1-3 mg/l (OECD 201) EC50/48h (Tetrahymena pyriformis): 1.718 mg/l (QSAR modelled data)
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Chronic toxicity for Solvent naphtha (petroleum), heavy aromatic:

NOELR/28d (Freshwater fish – early life stage):
0.441 mg/l (QSAR modelled data)

NOELR/21d (Freshwater invertebrates): 0.771 mg/l
(QSAR modelled data)

Acute toxicity for Xylene:

LC50/96h (Fish): 2.6 mg/l

EC50/48h (Cypris subglobosa): 90 mg/l

EC50/48h (Daphnia magna): > 3.4 mg/l

12.2 Persistence and degradability

Solvent naphtha (petroleum), heavy aromatic is inherently biodegradable (Manometric Respiratory Test). Xylene is readily biodegradable.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Solvent naphtha (petroleum), heavy aromatic is not classified as PBT/vPvB by current EU criteria.

12.6 Other adverse effects

May contribute to ozone formation in the near surface atmosphere.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product and packaging 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.



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SECTION 14: Transport Information

ADR

14.1	UN Number	1993
14.2	UN Proper shipping name	FLAMMABLE LIQUID, N.O.S. (Solvent naphtha, Xylene)
14.3	Transport hazard class(es)	3
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	1993
14.2	UN Proper shipping name	FLAMMABLE LIQUID, N.O.S. (Solvent naphtha, Xylene)
14.3	Transport hazard class(es)	3
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	1993
14.2	UN Proper shipping name	FLAMMABLE LIQUID, N.O.S. (Solvent naphtha, Xylene)
14.3	Transport hazard class(es)	3
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	1993
14.2	UN Proper shipping name	FLAMMABLE LIQUID, N.O.S. (Solvent naphtha, Xylene)
14.3	Transport hazard class(es)	3
14.4	Packing group	III
14.5	Environmental hazards	Yes



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

IMDG

14.1 UN Number 1993
14.2 UN Proper shipping name FLAMMABLE LIQUID, N.O.S. (Solvent naphtha, Xylene)
14.3 Transport hazard class(es) 3
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).

15.2 Chemical Safety Assessment Not applicable.

SECTION 16: Other Information

Full text of relevant H-statements:

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.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H351: Suspected of causing cancer.



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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): EUH066: Repeated exposure may cause skin dryness or cracking.

References:

Suppliers' Safety Data Sheets for ingredients
Product formulation
Regulation (EC) No. 1272/2008
EH40/2005, 2nd Ed., 2011.

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.

Version history:

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