



Safety Data Sheet

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

XO1922BD Exocet Blue Dye

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

1.1 Product identifier

Product name:	XO1922BD Exocet Blue Dye
Trade name(s):	Exocet Blue Dye (XO1922BD)
Product description:	Additive for petroleum products, fuels, oils, solvents & waxes.
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):	Additive for petroleum products, fuels, oils, solvents & waxes.
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)

Aspiration Hazard Category 1; H304

Carcinogen Category 2; H351

Specific Target Organ Toxicity following Single Exposure Category 3; H336

Chronic Hazards to the Aquatic Environment Category 2; H411

2.2 Label elements 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.

H336: May cause drowsiness or dizziness.

H351: Suspected if causing cancer.

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

P201: Obtain special instructions before use.

P273: Avoid release to the environment.

P281: Wear personal protective equipment as required.

P308 + P313: IF exposed or concerned: Get medical advice/attention.

P391: Collect spillage.

P405: Store locked up.

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.



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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
Hydrocarbons, C10, aromatics, > 1% naphthalene <i>REACH Registration no.: 01-2119463588-24--xxxx</i>	50 - 55	-	919-284-0	-	Asp. Tox. 1; H304 STOT SE 3; H336 Carc. 2; H351 Aquatic Chronic 2; H411
Hydrocarbons, C10 – C13, aromatics, > 1% naphthalene <i>REACH Registration no.: 01-2119451151-53--xxxx</i>		-	926-273-4	-	
Naphthalene	< 10	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.

All other constituents are not classified as hazardous.

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. If eye irritation persists, seek medical advice.



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INGESTION: Do NOT induce vomiting. Obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Headache, dizziness, drowsiness, nausea and other central nervous system effects.

4.3 Indication of any immediate medical attention and special treatments needed

If ingested, product may be aspirated into the lungs and cause chemical pneumonitis. 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

Hazardous combustion products include smoke, fumes, oxides of carbon.

5.3 Advice for fire-fighters

Evacuate area. Prevent run-off from fire control or dilution from entering drains or water courses. 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: > 62°C. Upper/lower flammability limits: 7.0% to 0.6% volume in air. Autoignition temperature > 425°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).



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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 adsorbent material to adsorb spillages. Transfer the contaminated adsorbent material into a container for disposal. The containers used should be 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

Obtain special instructions before use. Provide adequate ventilation, including local extraction to ensure the occupational exposure limits are not exceeded. Do not inhale fumes/vapours. Avoid contact with skin and eyes. Wear suitable personal protective equipment (See Section 8). Product can accumulate static charges which may cause an electrical spark (ignition source). Take measures to minimise such accumulation during use and during transfer operations. Ensure adequate bonding and/or grounding measures.

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.



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7.2 Conditions for safe storage, including any incompatibilities

Keep away from heat. Keep from direct sunlight. Store locked up. Store only in the original container. Storage containers should be earthed and bonded. Fixed storage containers, transfer containers and associated equipment should be earthed and bonded to prevent static charge accumulation. 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)

Additive for petroleum products, fuels, oils, solvents & waxes.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Exposure limit values

Source: Supplier

Substance	LTEL (8 hr TWA)		STEL (15 min)	
	ppm	mg/m ³	ppm	mg/m ³
Hydrocarbons, C10, aromatics, > 1% naphthalene	17	100		
Hydrocarbons, C10 – C13, aromatics, > 1% naphthalene	8	50		

Biological limits

Substance	Specimen	Sampling time	Limit	Determinant	Source
Naphthalene	Creatinine in urine	End of shift	4 umol/mol	1 Hydroxypyrene	UK BMGV



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Derived No-Effect Level (DNEL)

Substance	Dermal	Inhalation	Oral
Hydrocarbons, C10, aromatics, > 1% naphthalene	WORKER: 12.5 mg/kg bw/day DNEL, chronic exposure, systemic effects CONSUMER: 7.5 mg/kg bw/day DNEL, chronic exposure, systemic effects	WORKER: 150 mg/m ³ DNEL, chronic exposure, systemic effects CONSUMER: 32 mg/m ³ DNEL, chronic exposure, systemic effects	CONSUMER: 7.5 mg/kg bw/day DNEL, chronic exposure, systemic effects
Hydrocarbons, C10 – C13, aromatics, > 1% naphthalene	WORKER: 12.5 mg/kg bw/day DNEL, chronic exposure, systemic effects CONSUMER: 7.5 mg/kg bw/day DNEL, chronic exposure, systemic effects	WORKER: 151 mg/m ³ DNEL, chronic exposure, systemic effects CONSUMER: 32 mg/m ³ DNEL, chronic exposure, systemic effects	CONSUMER: 7.5 mg/kg bw/day DNEL, chronic exposure, systemic effects

Predicted No-Effect Concentration (PNEC)

Not available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction. Use explosion-proof equipment.

8.2.2 Personal protection

Eye protection:	Safety glasses with side shields or goggles (EN 166).
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:	Blue liquid.
Odour:	Distinctive – aromatic hydrocarbon.
Odour threshold:	Not available.
pH:	Not available.
Melting/freezing point::	< -10°C
Initial boiling point and boiling range:	185°C to 215°C
Flash point:	> 62°C (ASTM D-93)
Evaporation rate:	approx. 0.05 (n-butyl acetate = 1)
Flammability (solid; gas):	Not applicable.
Upper/lower flammability or explosive limits:	UEL: 7.0% vol. in air LEL: 0.6% vol. in air
Vapour pressure:	Not available.
Vapour density:	> 1 @ 101 kPa (Air = 1)
Relative density:	0.801 to 1.101 at 15°C (Water = 1)
Solubility:	Insoluble in water.
Partition coefficient: n-octanol/water:	Not available.
Auto-ignition temperature:	> 425°C
Decomposition temperature:	Not available.
Viscosity:	Approx. 15 cPs @ 20°C and 10 cPs @ 40°C
Explosive properties:	None
Oxidising properties:	None

9.2 Other information

Density: approx. 0.98 kg/dm³ @ 15°C



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SECTION 10: Stability and Reactivity

10.1 Reactivity	Reacts with strong oxidising agents.
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	Open flames and high energy ignition sources.
10.5 Incompatible materials	Strong oxidising agents.
10.6 Hazardous decomposition products	Combustion may liberate smoke, fumes, incomplete combustion products and oxides of carbon.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects	for Hydrocarbons, C10, aromatics, > 1% naphthalene & Hydrocarbons, C10 – C13, aromatics, > 1% naphthalene
Acute toxicity	Oral LD50 (rat): > 5000 mg/kg - low. Dermal LD50 (rabbit): >2000 mg/kg – low. Inhalation LC50 (rat): > 4500 mg/m ³ – low.
Skin corrosion/irritation	Slightly irritating to skin.
Serious eye damage/irritation	Not irritating.
Skin sensitisation	Not sensitising (Guinea pig maximisation test).
Respiratory irritation	Not irritating.
Respiratory sensitisation	No evidence of respiratory sensitisation.
Germ cell mutagenicity	Not mutagenic.
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.
Reproductive toxicity	Not a reproductive or developmental toxicant.



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Specific Target Organ Toxicity – single exposure	Inhalation of high concentrations of vapour may cause drowsiness or dizziness.
Specific Target Organ Toxicity – repeated exposure	Not expected to cause organ damage from prolonged or repeated exposure.
Aspiration hazard	May be fatal if swallowed and enters airways.

Information on likely routes of exposure

Inhalation	Inhalation of high concentrations may cause drowsiness or dizziness.
Skin contact	May cause defatting of the skin. Repeat exposure may cause skin dryness or cracking.
Eye contact	No specific health warnings noted.
Ingestion	Harmful: may cause lung damage if swallowed. Pneumonia may be the result if vomited material reaches the lungs.

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

Other information None

SECTION 12: Ecological Information

12.1 Toxicity Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

All data within section 12 is for Hydrocarbons, C10, aromatics, > 1% naphthalene & Hydrocarbons, C10 – C13, aromatics, > 1% naphthalene:

LC50 96h fish: 2 - 5 mg/l (*Onchorhynchus mykiss*)

EC50 48h aquatic invertebrates: 1 - 10 mg/l (*Daphnia magna*)

EC50 72h aquatic plants: 4 - 11 mg/l (*Pseudokirchneriella subcapitata*)

EC50 48h microorganisms: 0.473 mg/l (*Tetrahymena pyriformis*)

NOELR 28d fish early life stage: 0.103 mg/l

NOELR 21d aquatic invertebrates: 0.18 mg/l (*Daphnia magna*)



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12.2 Persistence and degradability	Readily biodegradable in water: 57 - 61% in 28 days
12.3 Bioaccumulative potential	Not applicable.
12.4 Mobility in soil	Not applicable.
12.5 Results of PBT and vPvB assessment	Not classified as PBT/vPvB by current EU criteria.
12.6 Other adverse effects	No other adverse effects are expected.

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, 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.

Empty containers may contain residue and may be dangerous. Do not attempt to refill or clean containers without proper instructions. Do not pressurise, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity or other sources of ignition.

SECTION 14: Transport Information

ROAD (ADR)

14.1 UN Number	3082
14.2 UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aromatic hydrocarbons, Naphthalene)
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.



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INLAND WATERWAYS (AND/ADNR)

14.1	UN Number	3082
14.2	UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aromatic hydrocarbons, Naphthalene)
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.

RAIL (RID)

14.1	UN Number	3082
14.2	UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aromatic hydrocarbons, Naphthalene)
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.

AIR (IATA/ICAO)

14.1	UN Number	3082
14.2	UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aromatic hydrocarbons, Naphthalene)
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.

SEA (IMDG)

14.1	UN Number	3082
14.2	UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Aromatic hydrocarbons, Naphthalene)
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	Not intended to be transported in bulk.



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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:

H302: Harmful if swallowed.
H304: May be fatal if swallowed and enters airways.
H336: May cause drowsiness or dizziness.
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.

References:

Supplier's Safety Data Sheet
Regulation (EC) No. 1272/2008

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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