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



# **XO1964D Exocet Diesel Supreme**

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

1.1 Product identifier

**Product name:** XO1964D Exocet Diesel Supreme

**Trade name(s):** Exocet Diesel Supreme (XO1964D)

**Product description:** Liquid fuel additive.

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

**Identified use(s):** Liquid fuel 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 29, Atcham Business Park, Upton Magna, Shrewsbury, Shropshire, SY4 4UG

**Telephone:** +44 (0)1743 761 415

**E-mail:** info@fastexocet.co.uk

1.4 Emergency telephone number

**In case of emergency, call:** 0333 333 9962 (24 hours, 7 days)

#### **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 Asp. Tox. 1; H304 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332

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



Aquatic Chronic 2; H411 **EUH044** 

#### 2.1.2. Classification according to Directive Directive 1999/45/EC

Harmful; Xn; R20/21/22

**R44** 

Harmful; Xn; R65

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: Danger.

Hazard Statement(s): H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

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.

P301 + P310: IF SWALLOWED: Immediately call a

POISON CENTER or doctor. P331: Do NOT induce vomiting.

P405: Store locked up.

P501: Dispose of contents/container to: disposal should be in accordance with local, state or national legislation.

**Supplemental Hazard** information (EU):

EUH044: Risk of explosion if heated under confinement.

Page 2 of 17

#### 2.3 Other hazards

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

Version: 3.0 XO1964D Exocet Diesel Supreme

Date: 16/09/2014

# exocet

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

# **SECTION 3: Composition**

#### 3.2 Mixtures

Chemical name	% w/w	CAS No.	EC No.	Index No.	Classification (Regulation (EC) No. 1272/2008 (CLP))	Classification (Directive 67/548/EEC)
2-Ethylhexyl nitrate REACH: 01- 2119539586-27-XXXX	30-50	27247-96-7	248-363-6	-	Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332 Aquatic Chronic 2; H411 EUH044 EUH066	Xn; R20/21/22 R44 N; R51/53 R66
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics REACH: 01- 2119457273-39-XXXX	5-15	-	918-481-9	-	Asp. Tox.1 ; H304 EUH066	Xn; R65 R66
2-Ethylhexan-1-ol REACH: 01- 2119487289-20-XXXX	2-10	104-76-7	203-234-3	-	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	Xn; R20 Xi; R36/37/38
Butanedioic acid, polyisobutenyl Polymer	2-10	-	-	-	Eye Irrit. 2; H319	Xi: R36
Ethylbenzene, manuf. of, distn. residues, distn. lights  REACH: 01- 2119452499-26-XXXX	1-2	178535-25-6	700-371-5	-	Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	Xi; R36/38 Xn; R65 N; R51/53
Solvent naphtha (petroleum), heavy arom.	0-2	64742-94-5	265-198-5	649-424-00-3	Asp. Tox. 1; H304 Skin Irrit. 2; H315 Aquatic Chronic 2; H411	Xi; R38 Xn; R65 N; R51/53
Solvent naphtha (petroleum), heavy arom. <i>REACH: 01-2119463588-24-XXXX</i>	< 1	64742-94-5	265-198-5	649-424-00-3	Asp. Tox. 1; H304 Skin Irrit. 2; H315 Aquatic Chronic 2; H411	Xi; R38 Xn; R65 N; R51/53
Naphthalene	< 1	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	Xn; R22 Carc. Cat. 3; R40 N; R50/53
Sulfonic acids, petroleum, sodium salts	< 1	68608-26-4	271-781-5	-	Eye Dam. 1; H318	Xi; R41
1,2,4-Trimethylbenzene	<1	95-63-6	202-436-9	601-043-00-3	Flam Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335 Aquatic Chronic 2; H411	R10 Xn; R20 Xi; R36/37/38 Xn; R65 N; R51/53



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

Chemical name	% w/w	CAS No.	EC No.	Index No.	Classification (Regulation (EC) No. 1272/2008 (CLP))	Classification (Directive 67/548/EEC)
1,3,5-Trimethylbenzene	<1	108-67-8	203-604-4	601-025-00-5	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit; H319 STOT SE 3; H335 Aquatic Chronic 2; H411	R10 Xi; R36/37/38 N; R51/53

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:** Remove person to fresh air and keep at rest in a position comfortable for

breathing. If symptoms persist, get medical advice/attention.

SKIN CONTACT: Remove contaminated clothing immediately. Wash with plenty of soap and

water. Take off contaminated clothing and wash before reuse. If you feel

unwell or if irritation persists get medical advice/attention.

EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing making sure to rinse under eyelids. If

eye irritation persists, get medical advice/attention.

**INGESTION:** Obtain immediate medical attention. Do not induce vomiting. Provided the

patient is conscious, rinse mouth out with water and provide patient with 200-300 mL of water to drink. Never give anything by mouth to an unconscious

person.

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

Skin contact causes redness and pain. Repeated exposure may cause skin dryness or cracking. Eye contact causes watering, redness and pain. Inhalation of high concentrations of vapours may cause drowsiness or dizziness. If swallowed, aspiration into lungs may result in chemical pneumonia. Ingestion may cause discomfort and irritation to the mouth and gastrointestinal tract.

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

In case of accident or if patient feels unwell, seek medical advice immediately. If in contact with eyes, wash eyes immediately and seek immediate medical attention. If swallowed, patient should be monitored for signs of breathing difficulty as effects of aspiration may be delayed for up to 48 hours. If breathing is laboured, oxygen should be administered by qualified personnel.

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



# **SECTION 5: Fire-fighting Measures**

#### 5.1 Extinguishing Media

**Suitable extinguishing media:** Foam, CO2 or dry powder.

For large fires, use water spray.

**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. Vapour is heavier than air and may accumulate in confined spaces. Risk of explosion if heated under confinement. Containers exposed to heat may burst due to increase in pressure.

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

#### 5.3 Advice for fire-fighters

A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Move undamaged containers from fire area if this can be done safely. Keep fire exposed containers cool by spraying with water. Do not allow product or run-off to enter drains, sewers or watercourses.

### **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. Evacuate area and keep upwind. Avoid breathing vapours. Avoid contact with skin, eyes or clothing. 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.

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



#### 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

Use only outdoors or in a well-ventilated area. Provide adequate ventilation, including local extraction, to ensure occupational exposure limits are not exceeded. Avoid breathing vapours. Avoid contact with skin, eyes or clothing. Wear suitable personal protective equipment (See Section 8).

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse. 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 cool. Protect from direct sunlight. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store only in the original container. Empty containers retain product residue and can be hazardous.

Keep away from oxidising agents.

#### 7.3 Specific end uses(s)

Liquid fuel additive.

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



# **SECTION 8: Exposure Controls/Personal Protection**

### 8.1 Control parameters

#### **Workplace exposure limits**

Source: EH40/2005, 2<sup>nd</sup> Ed., 2011.

Substance	CAS No.	LTEL (8 hr TWA)		STEL (	Comments	
Substance	CAS NO.	ppm	mg/m³	ppm	mg/m³	Comments
Solvent naphtha (petroleum), heavy arom.	-	-	151*	-	-	-
Trimethylbenzenes, all isomers or mixtures	25551-13-7	25	125	-	-	-

<sup>\*</sup> Supplier's WEL

#### **DNELs (Workers)**

Substance	Route	Acute/short-to	erm exposure	Long-term exposure			
Substance	Noute	Systemic effects	Local effects	Systemic effects	Local effects		
2-Ethylhexyl	Inhalation			0.24 mg/m <sup>3</sup>			
nitrate	Dermal			0.69 mg/kg bw/day	0.044 mg/cm <sup>2</sup>		
Hydrocarbons,	Inhalation	-	-	151 mg/m <sup>3</sup>	-		
C10, aromatics, >1% naphthalene	Dermal	-	-	12.5 mg/kg/day	-		
2-Ethylhexan-1-ol	Inhalation	-	106.4 mg/m <sup>3</sup>	53.2 mg/m <sup>3</sup>	-		
	Dermal	-	-	23 mg/kg bw/day	-		
1,2,4-	Inhalation	100 mg/m³	100 mg/m <sup>3</sup>	100 mg/m <sup>3</sup>	100 mg/m³		
Trimethylbenzene	Dermal	-	-	16171 mg/kg bw/day	-		
Naphthalene	Inhalation	-	-	25 mg/m³	25 mg/m³		
	Dermal	-	-	3.57 mg/kg bw/day	-		
1,3,5- Trimethylbenzene	Inhalation	100 mg/m <sup>3</sup>	100 mg/m <sup>3</sup>	100 mg/m <sup>3</sup>	100 mg/m <sup>3</sup>		
	Dermal	-	-	16171 mg/kg bw/day	-		

#### **PNECs**

Substance	Aqua (fresh water)	Aqua (marine water)	Aqua (intermittent releases)	Sewage Treatment Plants	Sediment (fresh water)	Sediment (marine water)	Soil	Oral
2-Ethylhexyl nitrate	0.0008 mg/L	0.00008 mg/L	-	10 mg/L	0.00074 mg/kg sediment dw	0.00074 mg/kg sediment dw	0.000191 mg/kg soil dw	-
2-Ethylhexan-1-ol	0.017 mg/L	0.0017 mg/L	0.17 mg/L	10 mg/L	0.28 mg/kg sediment dw	0.028 mg/kg sediment dw	0.047 mg/kg soil dw	55 mg/kg food
Ethylbenzene, manuf. of, distn. residues, distn. lights	0.0013 mg/L	1	-	1	-	-	-	-



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

Substance	Aqua (fresh water)	Aqua (marine water)	Aqua (intermittent releases)	Sewage Treatment Plants	Sediment (fresh water)	Sediment (marine water)	Soil	Oral
1,2,4- Trimethylbenzene	0.12 mg/L	0.12 mg/L	0.12 mg/L	2.41 mg/L	13.56 mg/kg sediment dw	13.56 mg/kg sediment dw	2.34 mg/kg soil dw	•
Naphthalene	0.0024 mg/L	0.0024 mg/L	0.0020 mg/L	2.9 mg/L	0.0672 mg/kg sediment dw	0.0672 mg/kg sediment dw	0.0533 mg/kg soil dw	-
1,3,5- Trimethylbenzene	0.101 mg/L	0.101 mg/L	0.101 mg/L	2.02 mg/L	7.86 mg/kg sediment dw	7.86 mg/kg sediment dw	1.34 mg/kg soil dw	-

#### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Provide adequate ventilation, including local extraction, to minimise exposure to vapours.

8.2.2 Personal protection

Eye protection: Goggles or safety glasses with side shields giving

complete protection to eyes. (EN 166)

Skin protection:

Hand protection: Chemical resistant gloves (EN 374). Viton gloves are

recommended. Contact glove supplier to confirm suitable

glove material, thickness and breakthrough times.

Other: Long sleeve protective clothing. Plastic apron. Rubber

boots.

Respiratory protection: In the case of insufficient ventilation, wear respiratory

equipment suitable for organic gases and vapours with a

boiling point above 65°C. (EN 14387)

**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:** Amber to red liquid.

Odour: Hydrocarbon.

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



Odour threshold:

pH:

Not available.

Not applicable.

Melting/freezing point:

Not available.

2-Ethylhexyl nitrate: < -50°C

**Initial boiling point and boiling range:** Not available.

2-Ethylhexyl nitrate: > 100°C (decomposes)

Flash point: Not available.

2-Ethylhexyl nitrate: 76.1°C [Pensky-Martens. ASTM

D93 ISO 2719]

**Evaporation rate:** Not available.

2-Ethylhexyl nitrate: < 1 (butyl acetate = 1)

Flammability (solid; gas): Not applicable.

Upper/lower flammability or explosive limits: Not available.

2-Ethylhexyl nitrate: Lower: 0.25%

Vapour pressure: Not available.

2-Ethylhexyl nitrate: 0.03 kPa (0.2 mm Hg) (20°C)

Vapour density: > 1 (Air = 1)

Relative density: ~ 1 (Water = 1)

**Solubility(ies):** Very slightly soluble in water.

Partition coefficient: n-octanol/water: Not available.

2-Ethylhexyl nitrate: Log Pow: 3.74 - 5.24

Auto-ignition temperature: Not available.

2-Ethylhexyl nitrate: 130 - 215°C

**Decomposition temperature:** Not available.

2-Ethylhexyl nitrate: > 100°C

Viscosity: Not available.

2-Ethylhexyl nitrate:

Dynamic: 1.7 mPa.s

Kinematic: 1.3 cSt (40°C)

**Explosive properties:** Not explosive. Risk of explosion if heated under

confinement. Vapour may form explosive mixture in air.

Oxidising properties: Not oxidising.

9.2 Other information

None.

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



### **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, heat, 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, nitrogen oxides and 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. The following data are

for the product components:

2-Ethylhexyl nitrate:

 $LD_{50}$  (oral/rat): > 9,640 mg/kg

LD<sub>50</sub> (dermal/rabbit): > 4,820 mg/kg

LCLo (inhalation/rat): > 4.6 mg/L, 75 min

2-Ethylhexan-1-ol:

LD<sub>50</sub> (inhalation/rat): >0.89 mg/L, 4 h

Ethylbenzene, manuf. of, distn. residues, distn. lights:

 $LD_{50}$  (oral/rat): > 2,000 mg/kg

Naphthalene:

LD<sub>50</sub> (oral/rat): 533 mg/kg

1,2,4-Trimethylbenzene:

LD<sub>50</sub> (oral/rat): 6,000 mg/kg

LD<sub>50</sub> (inhalation/rat): 10.2 mg/L, 4 h (read-across from

Shellsol A, hydrocarbon solvent (essentially C9 isomers,

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



particularly trimethylbenzenes))

**Skin corrosion/irritation**Causes skin irritation. Repeated exposure may cause

skin dryness or cracking.

Serious eye damage/irritation Causes serious eye irritation.

**Skin sensitisation**Not classified. The product does not contain substances

classified as skin sensitisers above the classification

thresholds.

**Respiratory sensitisation**Not classified. The product does not contain substances

classified as respiratory sensitisers above the

classification thresholds.

Germ cell mutagenicity Not classified. The product does not contain substances

classified as mutagenic above the classification

thresholds.

Carcinogenicity Not classified. The product does not contain substances

classified as carcinogenic above the classification

thresholds.

Reproductive toxicity

Not classified. The product does not contain substances

classified for reproductive toxicity above the classification

thresholds.

Specific Target Organ Toxicity -

single exposure

Not classified. The product does not contain substances classified for specific target organ toxicity after a single

exposure above the classification thresholds.

**Specific Target Organ Toxicity –** 

repeated exposure

Not classified. The product does not contain substances classified for specific target organ toxicity after repeated

exposure above the classification thresholds.

**Aspiration hazard** May be fatal if swallowed and enters airways. Risk of

aspiration into lungs resulting in chemical pneumonia.

Information on likely routes of exposure

**Inhalation** Harmful if inhaled.

Skin contact Harmful in contact with skin. Causes skin irritation.

Repeated exposure may cause skin dryness or cracking.

**Eye contact** Causes serious eye irritation.

**Ingestion** Harmful if swallowed. May be fatal if swallowed and

enters airways. Risk of aspiration into lungs resulting in chemical pneumonia. Ingestion may cause discomfort and irritation to the mouth and gastrointestinal tract.

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



**Symptoms related to the physical, chemical** Skin contact causes redness and pain. Repeated and toxicological characteristics exposure may cause skin dryness or cracking. Eye

exposure may cause skin dryness or cracking. Eye contact causes watering, redness and pain. Inhalation of high concentrations of vapours may cause drowsiness or dizziness. If swallowed, aspiration into lungs may result in chemical pneumonia. Ingestion may cause discomfort and irritation to the mouth and gastrointestinal 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.

No data available on the mixture. The following data are for the product components:

2-Ethylhexyl nitrate:

LC<sub>50</sub> (Danio rerio): 2 mg/L, 96 h

EC<sub>50</sub> (*Daphnia magna*): > 12.6 mg/L, 48 h

EC<sub>50</sub> (Pseudokirchnerella subcapitata): 3.22 mg/L, 72 h

(growth rate)

EC<sub>50</sub> (Pseudokirchnerella subcapitata): 1.57 mg/L, 72 h

(yield)

Hydrocarbons, C10, aromatics, >1% naphthalene:

LC<sub>50</sub> (Oncorhynchus mykiss): 2-5 mg/L, 96 h

EL<sub>50</sub> (Daphnia magna): 10 mg/L, 48 h

EL<sub>50</sub> (Pseudokirchnerella subcapitata): 1-3 mg/L, 72 h

(biomass)

EL<sub>50</sub> (Pseudokirchnerella subcapitata): 1-3 mg/L, 72 h

(growth rate)

NOELR (Pseudokirchnerella subcapitata): ca. 1 mg/L, 72

h (nominal, biomass)

NOELR (Pseudokirchnerella subcapitata): ca. 1 mg/L, 72

h (nominal, growth rate)

#### Naphthalene:

LC<sub>50</sub> (*Pimephales promelas*): 6.08 mg/L, 96 h

LC<sub>50</sub> (Oncorhynchus mykiss): 1.6 mg/L, 96 h

LC<sub>50</sub> (Oncorhynchus kisutch): 2.1 mg/L, 96 h

EC<sub>50</sub> (*Daphnia magna*): 2.16 mg/L, 48 h

NOEC (Oncorhynchus kisutch): 0.37 mg/L, 40 days

NOEC (Daphnia pulex): 0.59 mg/L, 125 days

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



**12.2 Persistence and degradability**No data available on the mixture. The following data are

for the product components:

2-Ethylhexyl nitrate:

Not readily biodegradable.

Hydrocarbons, C10, aromatics, >1% naphthalene:

Inherently biodegradable.

Ethylbenzene, manuf. of, distn. residues, distn. lights:

Biodegradability: 15% (28 days) [OECD 301 - CO<sub>2</sub> in sealed vessels (Headspace Test)]. Not readily

biodegradable.

**12.3 Bioaccumulative potential** 2-Ethylhexyl nitrate:

High potential to bioaccumulate.

Log Pow: 3.74 – 5.24

BCF: 1332

**12.4 Mobility in soil** 2-Ethylhexyl nitrate:

Log Koc (soil/water partition coefficient): 3.75

Volatile.

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

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



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
1410	opeoidi productione for the door	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
	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

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



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 II of MARPOL 73/78 and the IBC code

**Transport in bulk according to Annex** 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: Harmful by inhalation.

R20/21/22: Harmful by inhalation, in contact with skin

and if swallowed.

R22: Harmful if swallowed.

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



R36: Irritating to eyes.

R36/37/38: Irritating to eyes, respiratory system and

skin.

R36/38: Irritating to eyes and skin.

R38: Irritating to skin.

R40: Limited evidence of carcinogenic effect.

R41: Risk of serious damage to eyes.

R44: Risk of explosion if heated under confinement. R65: Harmful: may cause lung damage if swallowed. R66: Repeated exposure may cause skin dryness or cracking.

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:**

BCF: Bioconcentration factor

bw: Body weight

CAS: Chemical Abstracts Service;

dw: Dry weight

EINECS: European Inventory of Existing Commercial Chemical Substances

 $EC_{50}$ : Effective Concentration 50%  $EL_{50}$ : Effective Loading rate 50%  $LC_{50}$ : Lethal Concentration 50%

LD<sub>50</sub>: Lethal Dose 50%

LL<sub>50</sub>: Lethal Loading rate 50%
LOEL: Lowest Observed Effect Level
NOEL: No Observed Effect Level

PBT: Persistent, Bioaccumulative and Toxic. vPvB: Very Persistent and Very Bioaccumulative.

WAF: Water Accommodated Fraction.

#### References:

Supplier's Safety Data Sheets for ingredients
ECHA REACH dossiers
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:**

THE INFORMATION PRESENTED HEREIN IS BELIEVED TO BE ACCURATE, BUT IS NOT WARRANTED TO BE, WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE

Version: 3.0 XO1964D Exocet Diesel Supreme
Date: 16/09/2014

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



ADVISED TO CONFIRM, IN ADVANCE OF NEED, THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

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