

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 as amended

XO1948XB

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

1.1 Product identifier

Product name: XO1948XB
Trade name(s): Anti-Bug Protect (XO1948XB)
Chemical Name: Reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]
Index Number: 612-290-00-1
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: Restricted to professional users. 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: +44 (0)333 333 9962 (24/7, English)

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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	Harmful if swallowed.
Acute Tox. 4	H332	Harmful if inhaled.
Acute Tox. 3	H311	Toxic in contact with skin.
Skin Corr. 1B	H314	Causes severe skin burns and eye damage.
Skin Sens. 1A	H317	May cause an allergic skin reaction.
Eye Dam. 1	H318	Causes serious eye damage.
Muta. 2	H341	Suspected of causing genetic defects.
Carc. 1B	H350	May cause cancer.
STOT RE 2	H373	May cause damage to organs (Respiratory Tract, Gastrointestinal tract) through prolonged or repeated exposure.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.

2.1.2. Additional Information

EUH071 Corrosive to the respiratory tract.

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 + H332: Harmful if swallowed or if inhaled.
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H373: May cause damage to organs (Respiratory tract,

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<p>Precautionary Statement(s):</p>	<p>Gastrointestinal tract) through prolonged or repeated exposure. H341: Suspected of causing genetic defects. H350: May cause cancer. H411: Toxic to aquatic life with long lasting effects.</p> <p>P201: Obtain special instructions prior to use. P261: Avoid breathing vapours. P273: Avoid release to the environment. P280: Wear protective gloves / protective clothing / eye protection / face protection. P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER or doctor/physician.</p>
<p>Supplemental Hazard information (EU):</p>	<p>EUH071: Corrosive to the respiratory tract.</p>
<p>Hazardous components which must be listed on the label:</p>	<p>Reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]</p>
<p>Special labelling of certain mixtures</p>	<p>Restricted to professional users.</p> <p>Use biocides safely. Always read the label and product information before use.</p>

2.3 Other hazards

This product is not PBT or vPvB.

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SECTION 3: Composition

3.1 Substances

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

Chemical name	Index Number	EC No.	REACH No.	% w/w	Classification according to Regulation (EC) No. 1272/2008 (CLP)
Reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]	612-290-00-1	-	-	90-100	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1A; H317 Eye Dam. 1; H318 Muta. 2; H341 Carc. 1B; H350 STOT RE 2; H373 Aquatic Chronic 2; H411

See Section 16 for full description of H statements.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

GENERAL NOTES

Take off immediately all contaminated clothing.
If medical advice is needed, have safety data sheet or label at hand.

INHALATION:

Remove person to fresh air and keep comfortable for breathing. Keep at rest. If symptoms persist, seek medical attention.

SKIN CONTACT:

Obtain immediate medical attention. Take off immediately all contaminated clothing. Wash with plenty of soap and water for at least 15 minutes. Wash contaminated clothing before reuse.

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EYE CONTACT:

Obtain immediate medical attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes.

INGESTION:

Obtain immediate medical attention. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Provided the patient is conscious, rinse mouth with water. Give small amounts of water to drink.

SELF-PROTECTION OF THE FIRST AIDER:

When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.

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

Toxic and corrosive in contact with the skin; symptoms include severe skin burns, blistering, redness and pain. May cause an allergic skin reaction. Causes severe eye damage. Harmful if inhaled. Corrosive to the respiratory tract. Harmful if swallowed. Ingestion can cause burns to mouth, throat and digestive tract.

Delayed Effects: Suspected of causing genetic defects. May cause cancer. Repeated exposure may cause damage to organs.

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

Treat symptomatically. In case of accident or if you feel unwell, seek medical advice immediately

SECTION 5: Fire-fighting Measures

5.1 Extinguishing Media

Suitable extinguishing media:

Water, 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

Combustion may liberate toxic fumes: Carbon monoxide, carbon dioxide, nitrogen oxides and formaldehyde.

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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: > 100°C (closed cup).

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Ensure adequate ventilation. Do not breathe fumes/vapour. Do not get in contact with skin or eyes. Wear suitable personal protective equipment (See Section 8).

6.1.2 For emergency responders

Keep unnecessary personnel away. Wear suitable protective clothing (See Section 8). Wash contaminated clothing before reuse.

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. Transfer the contaminated absorbent material into a container for disposal. Containers should be sealed before being disposed of via an authorised waste disposal contractor.

6.3.3 Other advice

None.

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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. Do not breathe fumes/vapour. Provide adequate ventilation, including local extraction to ensure the occupational exposure limit is not exceeded. Handle and open container with care. Do not get in contact with skin or eyes. Wear suitable personal protective equipment (See Section 8).

Obtain special instructions prior to use. Do not handle until all safety precautions have been read and understood.

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off immediately all contaminated clothing. Contaminated clothing should be thoroughly cleaned or disposed of as hazardous waste.

7.2 Conditions for safe storage, including any incompatibilities

Protect from frost, heat and sunlight. Keep away from heat and sources of ignition.

Store at room temperature in the original container. Store locked up in a cool, well ventilated place.

7.3 Specific end uses(s)

Liquid fuel additive.

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SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Hazardous decomposition products:

Occupational Exposure Limit values					
Substance	Formaldehyde		CAS No.		50-00-0
Country	Limit value - 8 hours		Limit value - short term*		Source
	ppm	mg/m ³	ppm	mg/m ³	
EU	0.3	0.369	0.6	0.738	SCOEL/REC/125
UK	2	2.5	2	2.5	EH40:2005

Remarks

* Short term is 15 minutes unless otherwise specified.

EU Recommended

The recommended EU limits may require a re-evaluation of risk control and exposure control measures. However, safe use levels remain possible with maximum exposure to formaldehyde vapours well below that of the new EU OEL.

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).
 Splash protection: disposable nitrile rubber gloves.
 Prolonged contact: butyl rubber gloves, protective index 6, breakthrough time > 480 minutes, layer thickness 0.7 mm.

Other:

Long sleeve protective clothing. Plastic apron. Rubber boots. Chemical-protection suit (according to EN 14605 in case of splashes).

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Respiratory protection:	In the case of insufficient ventilation, wear suitable respiratory equipment. Suitable respiratory protection for lower concentrations or short-term effect: Filter type ABEK-P3 (EN 14387).
Thermal hazards:	Wear suitable temperature resistant gloves and protective clothing if the product is heated.
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:	Colourless to light yellow liquid.
Odour:	Amine.
Odour threshold:	Not available.
pH:	ca. 10 (1.5 g/L @ 20 °C)
Melting/freezing point:	< -35°C
Initial boiling point and boiling range:	ca. 204°C.
Flash point:	>100°C (Closed cup)
Evaporation rate:	Not available.
Flammability (solid; gas):	Not applicable.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	0.014 hPa @ 25 °C, calculated.
Vapour density (Air = 1):	Not determined.
Relative density (Water = 1):	1.049 - 1.069 @ 20 °C
Solubility(ies):	Soluble.
Partition coefficient: n-octanol/water:	log Pow: ca. -0.3 @ 25 °C
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	21 mPa.s, 20 °C, OECD Test Guideline 114
Explosive properties:	Not explosive.

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Oxidising properties:	Not oxidising.
9.2 Other information	
Surface Tension:	32 mN/m
Refractive Index:	1469 – 1479 @ 20 °C

SECTION 10: Stability and Reactivity

10.1 Reactivity	Stable under recommended storage conditions
10.2 Chemical stability	No decomposition if stored normally.
10.3 Possibility of hazardous reactions	Reaction with acids.
10.4 Conditions to avoid	Keep away from sources of ignition, hot surfaces, direct sunlight. Contact with incompatible materials.
10.5 Incompatible materials	Acids
10.6 Hazardous decomposition products	Formaldehyde. Combustion may liberate toxic fumes: Carbon monoxide, carbon dioxide, nitrogen oxides.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity	Harmful if swallowed. Harmful by inhalation. Toxic in contact with skin. LD50 (oral, rat): 630 mg/kg. LD50 (dermal, rat): 760 mg/kg, (OECD Test Guideline 402). LC50 (inhalation): 2 mg/l, 4 h, dust/mist, (OECD Test Guideline 436).
Skin corrosion/irritation	Causes severe skin burns. (OECD Test Guideline 404)
Serious eye damage/irritation	Causes serious eye damage. (OECD Test Guideline 405)

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Skin sensitisation	May cause an allergic skin reaction. (OECD Test Guideline 406)
Respiratory sensitisation	Not classified. No evidence of respiratory sensitisation.
Germ cell mutagenicity	Suspected of causing genetic defects. Based on conditions cited in note 9, Regulation (EC) 1272/2008, Annex VI, Part 3. OECD TEST Guideline 475 – did not show mutagenic effects in animal experiments.
Carcinogenicity	May cause cancer. Based on conditions cited in note 8, Regulation (EC) 1272/2008, Annex VI, Part 3.
Reproductive toxicity	Not classified. No evidence of reproductive toxicity.
Specific Target Organ Toxicity – single exposure	Not classified. Based on the available data, the classification criteria are not met.
Specific Target Organ Toxicity – repeated exposure	May cause damage to organs through prolonged or repeated exposure. Target Organs: Gastro-intestinal system, Respiratory system.
Aspiration hazard	NOAEL (rat) 72 mg/kg (repeated dose, 90 days). OECD Test Guideline 408. Not classified. Data lacking.

Information on likely routes of exposure

Inhalation	Harmful by inhalation. Corrosive to the respiratory tract.
Skin contact	Causes severe skin burns. Toxic in contact with skin.
Eye contact	Causes serious eye damage.
Ingestion	Harmful if swallowed. Ingestion can cause burns to mouth, throat and digestive tract.
Symptoms related to the physical, chemical and toxicological characteristics	Toxic in contact with skin. Skin contact causes burns, blistering, redness and pain. May cause an allergic skin reaction. Eye contact causes burns, watering, redness and pain. Harmful if inhaled. Corrosive to the respiratory tract. Harmful if swallowed. Ingestion can cause burns to mouth, throat and digestive tract. Hazardous decomposition product: formaldehyde. May cause cancer. Suspected of causing genetic defects. Repeated exposure may cause damage to gastro-intestinal system and respiratory system.

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Mixture versus substance information	Not applicable.
Other information	This product may release formaldehyde.

SECTION 12: Ecological Information

12.1 Toxicity	LC50 (Fish – <i>Brachidanio rerio</i>): 57.7 mg/l. EC50 (Algae): 5.7 mg/l, 72 h EC50 (<i>Daphnia magna</i>): 37.9 mg/l, 48 h EC50 (Bacteria): 44 mg/l
12.2 Persistence and degradability	Readily biodegradable, according to appropriate OECD test., Biodegradation: 89.8 %, Exposure time: 28 d, OECD Test Guideline 301B. Chemical Oxygen Demand: 17887 mg/g, 1% solution.
12.3 Bioaccumulative potential	Partition coefficient: n-octanol/water: log Pow: -0.3
12.4 Mobility in soil	No data available.
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	Adsorbed organic bound halogens (AOX) Product does not contain any organic halogens.

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.

Empty containers retain product residue and can be hazardous. Dispose of uncleaned empty containers as hazardous waste in accordance with local, state or national legislation.

Contaminated absorbents 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	2922
14.2	UN Proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S (contains reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO])
14.3	Transport hazard class(es)	8, 6.1
14.4	Packing group	II
14.5	Environmental hazards	Yes

ADN

14.1	UN Number	2922
14.2	UN Proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S (contains reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO])
14.3	Transport hazard class(es)	8, 6.1
14.4	Packing group	II
14.5	Environmental hazards	Yes

RID

14.1	UN Number	2922
14.2	UN Proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S (contains reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO])
14.3	Transport hazard class(es)	8, 6.1
14.4	Packing group	II
14.5	Environmental hazards	Yes

IATA/ICAO

14.1	UN Number	2922
14.2	UN Proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S (contains reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO])
14.3	Transport hazard class(es)	8, 6.1

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14.4	Packing group	II
14.5	Environmental hazards	Yes

IMDG

14.1	UN Number	2922
14.2	UN Proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S (contains reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO])
14.3	Transport hazard class(es)	8, 6.1
14.4	Packing group	II
14.5	Environmental hazards	Marine Pollutant: Yes
14.6	Special precautions for the user	Transport Category: 2 Tunnel Restriction Code (E) 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). Regulation (EU) No 528/2012 (BPR): Approval Status: Under review. REACH Annex XVII – Restrictions: Entry 28. Restricted to professional users.
15.2	Chemical Safety Assessment	Not applicable.

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SECTION 16: Other Information

i) Indication of changes:

Version:	2.0
Issue date:	09/07/2019
Previous Version:	1.0
Issue date of previous version:	02/04/2013
Sections changed from previous version:	2,3,4,6,7,8,11,14 and 16.

ii) Abbreviations and acronyms:

BPR:	Biocidal Products Regulation.
CAS:	Chemical Abstracts Service.
EC50:	The effective concentration of substance that causes 50% of the maximum response.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
LC50:	Median lethal concentration.
LD50:	Median lethal dose.
PBT:	Persistent, Bioaccumulative and Toxic.
vPvB:	Very Persistent and Very Bioaccumulative.

iii) References:

Supplier's Safety Data Sheets.
Regulation (EC) No. 1272/2008.
Regulation (EC) No. 1907/2006
Regulation (EU) No. 2015/830
HSE EH40
GESTIS ILV
SCOEL/REC/125 Formaldehyde.

iv) Hazard statements (number and full text):

Hazard Category Codes	Acute Tox. 3, 4: Acute Toxicity, categories 3 & 4 Skin Corr. 1B: Skin corrosion/irritation, category 1B. Skin Sens. 1A: Skin sensitisation, category 1A Eye Dam. 1: Serious eye damage/eye irritation, category 1 Muta. 2: Germ Cell Mutagenicity, category 2 Carc. 1B: Carcinogenicity, category 1B STOT RE 2: Specific Target Organ Toxicity, repeated
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Hazard Statement(s):

exposure, category 2

Aquatic Chronic 2: Hazardous to the Aquatic Environment, Category Chronic 2.

H302: Harmful if swallowed.

H332: Harmful by inhalation.

H311: Toxic in contact with skin.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H341: Suspected of causing genetic defects.

H350: May cause cancer.

H373: May cause damage to organs (Respiratory Tract, Gastrointestinal tract) through prolonged or repeated exposure.

H411: Toxic to aquatic life with long lasting effects.

Supplemental Hazard information (EU): EUH071: Corrosive to the respiratory tract.

v) Training Advice

Obtain special instructions prior to use. Always read the label, safety data sheet and product information before use. Do not handle until all safety precautions have been read and understood.

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.