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Xbee Enzyme Fuel Technology

Section 1. Identification of company/business and substance/mix

1.1. Product identifier

XBEE Enzyme Fuel Technology

1.2. Product use

Low odour solvent base, fuel additive.

1.3. Distributor's name and details

XBEE SA

Dumontshaff

L-3841 Schiffflange

Tel: +352 691 6689 69

Mail: info@xbee.com



1.4. Emergency telephone number

The emergency number to be used in Benelux is the Belgian Poison Center number: +352 8002-5500. Call this number for contact details of all Benelux anti-poison centres.

To find out the emergency number for your country, you are kindly requested to contact the relevant local authorities and to visit the ECHA (European Chemicals Agency) website: <http://echa.europa.eu/en/web/guest/support/helpdesks/national-helpdesks/list-of-national-helpdesks>

Section 2. Identification of dangers

2.1. Classification of mix

Classification CE 67/548 or CE 1999/45:

Xn – Harmful; R65 – May affect lungs if ingested.

Danger class and category code(s), Regulation (CE) N° 1272/2008 (CLP):

Danger through inhalation - Category 1 - Danger - (CLP: Inhalation Tox. 1) - H304

2.2. Labelling

Labelling Regulation CE 1272/2008 (CLP):

CONTAINS: Heavy aliphatic naphta solvent (oil)

Danger pictogram: GHS08

Warning notice: Danger

Danger notice:

H304 – May be fatal if swallowed and if airways are penetrated.

Safety advice:

P301+310 – IF SWALLOWED: call an ANTI-POISON centre or Doctor immediately. P331 – DO NOT attempt to induce vomiting. P501 – Dispose of this product and its container at a dangerous or special waste centre that is in conformity with local, national and/or international regulations. P260 – Do not breathe in dust/fumes/gas/mists/vapours/aerosols. P262 – Avoid all contact with eyes, skin and clothing.



2.3. Other dangers

Dangers linked to physical-chemical properties: This product is flammable and combustible if heated.

Dangers with health consequences: Possibility of irritation to skin and eyes. Possibility of nausea, headaches, irritation and coma if vapour is inhaled in significant quantities.

Harmful effects on the environment: Possibility of dangerous effects on aquatic organisms.

Section 3. Composition / information related to elements

Chemical character:

This product is a mix.

Chemical name	Index / CAS / CE / Registration	Classification 67548/CEE	Classification / Regulation CE N°1272/2008	Concentration %
Distillates (petroleum) Hydrotreated light	64742-47-8	Xn – R65	Inhalation Tox. 1; H304	> 99%
Organic compounds	-	-	-	< 1%

For full text of –R formulations cited in this chapter see section 16.

For full text of –H formulations cited in this chapter see section 16.

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Section 4. First aid

4.1. Description of first aid

General advice:	In the event of serious or ongoing distress call a doctor or request emergency medical aid.
Contact with eyes:	Rinse carefully and fully with water while keeping pupils wide open. Consult an ophthalmologist if there appears to be any irritation.
In the event of contact with skin:	Remove soiled clothing and clean affected body areas with soap or gentle detergent and large amounts of water for at least 15 minutes. Consult a doctor if there appears to be any irritation.
Inhalation:	In the event of vapours or mists being given off, leave the polluted area immediately. Use artificial respiration in the event of any difficulties. Call a doctor.
Ingestion:	Do not induce vomiting. If the affected person feels the need to vomit, lean them forwards whilst keeping their head above hip level to avoid inhalation into respiratory airways. Call an ANTIPOISON CENTRE immediately or a doctor. Take care not to give an unconscious person anything to swallow.
Protecting first-aiders:	Consider the protection of first-aiders during a life-saving operation. Use personal protective equipment. See section 8.

4.2. Main symptoms and acute and deferred effects

Contact with eyes:	Possibility of eye irritation.
Contact with skin:	Possibility of skin irritation.
Inhalation:	Possibility of nausea, headache, irritation and coma in the event of significant inhalation of vapours.
Ingestion:	Inhaling the substance may bring on a pulmonary oedema and serious pneumonia could develop quickly.

4.3. Indication of possible medical treatment and specific treatments needed

Treat according to symptoms.

Section 5. Fire-fighting measures

5.1. Methods of extinction

Appropriate methods of extinction:	Dry chemical powder, foam, water spray.
Methods of extinction not to be used for safety reasons:	Do not use jet water spray.

5.2. Specific dangers as a result of substance or mix

Exposure to heat can lead to dangerous fumes being given off as well as soot and carbon oxides. Product is moderately flammable. Vapour/air mix can be explosive. Vapours are heavier than air and can catch fire at a great distance from the emitting source.

5.3. Advice to fire-fighters

Cool subjects exposed to fire with water spray. Prevent fire-fighting discharge from entering drains, watercourses and ground water. Do not enter or linger in danger areas without chemically protective clothing (protective clothing, gloves, boots) or without independent positive-pressure breathing apparatus. Do not allow extinguishing water to enter drains or watercourses.

Section 6. Measures to take in the event of accidental spillage

6.1. Personal precautions, protective equipment and emergency procedures

For non-first-aiders: Eliminate the sources of the inflammation. Do not touch or walk in the spilled product. If necessary, evacuate personnel to secure areas. Ensure adequate ventilation. See section 8 for personal protective equipment.
For first-aiders: Eliminate the sources of the inflammation. Stop the leak if you can do so without danger. Avoid inhaling vapours and avoid contact with skin and eyes. Ventilate the premises to an adequate degree. Protect the personnel taking action with respiratory masks, clothing, gloves and safety footwear. Advice to first-aiders: Take all adequate measures to protect first-aiders against risks of fire, explosion and inhalation, particularly through the use of respiratory protection. Ensure strict hygiene rules are adopted for those exposed to contact with the product. Use personal protective equipment.

6.2. Precautions for environmental protection

Avoid the product getting into drains, watercourses, subterranean water and the ground. Do not throw water used for cleaning into the drain. Do not throw out the recovered product into the environment.

6.3. Methods and materials to be used for confinement and cleaning

Contain the product. Gather in the spilled product using a non flammable inert absorbent. Place residue in barrels for elimination in conformity with regulations in force. Wash the contaminated zone using copious amounts of water.

6.4. Reference to other sections

For information concerning handling, see chapter 7. For information concerning personal protective equipment, see chapter 8. For information concerning elimination, see chapter 13.

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Section 7. Handling and storage

7.1. Precautions to take for handling without danger

Provide for appropriate general ventilation. Adhere to hygiene rules.

Recommendations for danger-free handling: Use personal protective equipment. See section 8.

Keep food and drink away from product, including animal food and drink.

Prevention of fire and explosion: Handle product away from possible sources of fire (naked flames, sparks, electric arcs etc) and heat (warm manifolds or partitions).

Hygiene measures: Avoid contact with skin, eyes and clothing. Avoid breathing in vapours, spray mist and gases. Use the required personal protective equipment. Do not place cloths that have been soaked in the product in clothes pockets. Do not eat, drink or smoke while handling this product. Change out of contaminated clothing at the end of the working day. Wash your hands before taking a break and immediately after handling the product. Remove contaminated clothing and footwear. Gloves must be periodically inspected and replaced if worn through, split or contaminated.

7.2. Conditions necessary to safeguard storage safety, bearing in mind possibly incompatibilities

Technical measures/storage conditions :

Store the containers firmly locked down in a well ventilated and cool area away from any sources of ignition. These packaging materials are recommended: steel, PVC. Keep incompatible products well clear.

Only use containers, seals and piping that is resistant to hydrocarbons.

Materials to avoid: strong oxidising agents.

7.3. Special end use(s)

No information available.

Section 8. Exposure management / Personal protection

8.1. Control parameters

Exposure limits at work: absence of any exposure limit values being established in Benelux.

8.2. Exposure management

Technical measures:

Apply technical measures necessary to adhere to the exposure limits at work. Provide appropriate general ventilation.

Personal protective equipment:

All common protective measures should be set up and implemented prior to recourse to personal protective equipment. Use personal protective equipment that is clean and in good working order.

Respiratory protection:

Provide adequate ventilation (extractor equipment at work stations, good general ventilation). If mists or vapours form: use respiratory apparatus fitted with a cartridge for organic vapours combined with a particle pre-filter (combined A/P filter type that conforms to EN141/EN143 standards).

Eye protection:

Wear protective glasses (safety glasses with lateral protection in conformity with EN166 standards). Consider providing eye fountains in direct proximity to workplaces.

Skin and body protection:

Provide protective clothing and boots to avoid contact with this product.

Hand protection:

Use gloves that are resistant and waterproof against chemical products (in conformity with EN 374 standards).

Hygiene measures:

Remove all soiled clothing. Do not eat, drink or smoke at workplaces. Clean hands after all handling.

Exposure management linked to environmental protection:

Avoid product entering drains, watercourses and soil.

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Section 9. Physical and chemical properties

9.1. Information on essential physical and chemical properties

Appearance	Transparent liquid
Colour	Colourless
Odour	Light solvent, fuel
pH	not applicable
Melting point/range	not determined
Boiling point/range	177°C (760 mmHg)
Flashpoint	82°C (ASTM D 93/A)
Evaporation rate	not determined
Higher flammability limit	not determined
Lower flammability limit	0.9% vol
Vapour pressure	No information available
Vapour density	No information available
Density	0,795 at 15°C g/ml
Hydrosolubility	Insoluble
Log Pow	not determined
Auto ignition temperature	not determined
Kinematic viscosity	not determined
Dynamic viscosity	not determined
Explosive properties	Vapour/air mixes may be explosive.
Oxidising properties	No information available

9.2. Other information

No information available

Section 10. Stability and reactivity

10.1. Reactivity

No information available

10.2. Chemical stability

Product is stable during normal handling and storage conditions.

10.3. Possibility of dangerous reactions

No information available

10.4. Conditions to be avoided

Avoid flames and all heat and flammable sources. Avoid contact with incompatible materials.

10.5. Incompatible materials

Strong oxidising agents. Materials not advised: some plastic materials.

10.6 Products that decompose dangerously

The heat decomposition of the preparation may result in the triggering of dangerous products such as carbon monoxide and dioxide and different organic compounds.

Section 11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	DL50 oral intake (rat) : not determined
Cutaneous corrosion/cutaneous irritation	To our knowledge (and taking into account its composition) this product is not classed in this danger category.
Serious ocular lesions/ocular irritation	To our knowledge (and taking into account its composition) this product is not classed in this danger category.
Respiratory or cutaneous sensitivity	To our knowledge (and taking into account its composition) this product is not classed in this danger category.
Germ cell mutagenicity	No information available. To our knowledge (and taking into account its composition) this product is not classed in this danger category.
Carcinogenicity	No information available. To our knowledge (and taking into account its composition) this product is not classed in this danger category.
Reproductive toxicity	No information available. To our knowledge (and taking into account its composition) this product is not classed in this danger category.

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Specific toxicity for some target organs — single exposure	No information available. To our knowledge (and taking into account its composition) this product is not classed in this danger category.
Specific toxicity for some target organs — repeated	No information available. To our knowledge (and taking into account its composition) this product is not classed in this danger category.
Danger by inhalation	May be fatal if ingested and if respiratory airways are penetrated.
Information on probable exposure routes:	
Inhalation	Acute exposure: Irritation of nose of respiratory airways, vertigo, poor coordination, headache, loss of appetite, nausea, confusion, suppressed nervous system, coma, brain area affected, chemical pneumonia, pulmonary oedema, haemorrhage, death. Chronic exposure: Possibility of visual disturbances.
Contact with skin	Acute exposure: Possibility of irritation, effects on the central nervous system. Chronic exposure: Possibility of irritation, drying out, sensitivity or dermatitis in the event of repeated contact.
Contact with eyes	Acute exposure: Possibility of irritation, watering, reddening, swelling of eyes. Chronic exposure: Possibility of irritation, conjunctivitis
Ingestion	Acute exposure: Irritation of pharynx, oesophagus, stomach and intestines with mucus oedema and ulceration, diarrhoea, cardiac arrest, suppression of central nervous system ; chemical pneumonia in the event of vomiting and inhalation into lungs. Chronic exposure: No data available.
Main symptoms:	
Contact with eyes :	Possibility of eye irritation.
Contact with skin:	Possibility of skin irritation.
Inhalation :	Possibility of nausea, headache, coma in the event of significant vapour inhalation.
Ingestion :	Inhalation may trigger pulmonary oedema and serious pneumonia can quickly develop.

Section 12. Ecological information

12.1. Toxicity	No study has been made at this time on this mix. The main element of this mix is not directly toxic for aquatic organisms.
12.2. Persistence and degradability	The main element of the mix is degradable. End-containing entity: air.
12.3. Potential for bioaccumulation	No information available.
12.4. Mobility in the ground	No information available.
12.5. PBT and vPvB evaluation results	No information available.
12.6. Other harmful effects	Long-term harmful effects for aquatic organisms through the reduction of surface gas exchanges (the mix floats on the water surface). Not to be disposed of onto natural water or onto the ground.

Section 13. Considerations related to disposal

13.1. Waste treatment methods	Dispose of product in accordance with European Directives relating to waste and dangerous waste. Dispose of contents/container in an approved incineration facility.
Contaminated packaging	Empty containers should be taken to an approved site for waste treatment and subsequent disposal or recycling. The ground and surface and subterranean water is not to be contaminated.

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Section 14. Transport information

Transport regulation	ADR / RID / ADNR	IMDG	IATA
14.1 UN Number	NOT REGULATED		
14.2 Name of United Nations dispatch			
14.3 Class(s) of transport danger			
14.4 Packaging group			
14.5 Environmental dangers			
14.6 Special precautions to be taken by user			
14.7 Loose-load transport in conformity with Annexe II de of the MARPOL 73/78 convention and the IBC set of guidelines			

Section 15. Regulatory information

15.1. Regulations/legislation specific to the substance or mix relating to safety, health and environmental matters.

Ensure adherence to all national and local regulations

15.2. Evaluation of chemical safety

No information available.

Section 16. Other information

Texts H and R for dangers given in chapter 3 :

H304 May be fatal if swallowed and if respiratory airways are penetrated.

R65 Harmful: could affect lungs if ingested.

This safety information sheet has been fully revised and set out in the new format as per regulation 453/2010.

Training advice

Plan for staff instruction related to risks and precautions to take in the event of an accident.

Cautionary notice:

Information given in this document is based on available data. However the information gives absolutely no guarantee, either implicit or explicit, as to the accuracy of the information given or the results obtained using this information. Insofar as the information contained in this document can be applied to conditions that can be managed, we can assume no responsibility as to their use.