

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Product name : TREBON 30 EC  
Product code : MAI 011 C1146  
Type of formulation : Emulsifiable concentrate (EC)  
Active Ingredient : Etofenprox

**1.2. Relevant identified uses of the substance or mixture and uses advised against****2.1. Relevant identified uses**

Main use category : Plant protection product for professional use. Agriculture.  
Use of the substance/mixture : Insecticide.

**1.2.2. Uses advised against**

No additional information available.

**1.3. Details of the supplier of the safety data sheet**Supplier:

Mitsui Chemicals Agro, Inc.  
Nihonbashi Dia Building, 1-19-1,  
Nihonbashi, Chuo-ku, Tokyo,  
103-0027, Japan.

Distributor:

CERTIS UK  
Suite 5, 3 Riverside  
Granta Park  
Great Abington  
Cambridgeshire CB21 6AD  
United Kingdom  
Tel: +44 (0)845 373 0305  
Fax: +44 (0)1223 891210  
Email: [certis@certiseurope.co.uk](mailto:certis@certiseurope.co.uk)  
Website: [www.certiseurope.co.uk](http://www.certiseurope.co.uk)

**1.4. Emergency telephone number**

Emergency number : Certis Carechem24 multilingual 24 hours emergency number: +44 (0) 870 190 6777.  
For advice on medical emergencies, fires, spillages or chemical hazards only –phone: 0870 190 6777.  
For further advice for medical professionals - The National Poisons Information Service:  
Tel: 0870 600 6266 (UK only) or Dublin Tel: 0035 3 137 99 64/379966.  
For further advice for veterinary surgeons: 020 7635 9195.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

|                   |      |
|-------------------|------|
| Skin Irrit. 2     | H315 |
| Eye Dam. 1        | H318 |
| Lact.             | H362 |
| STOT SE 3         | H336 |
| Asp. Tox. 1       | H304 |
| Aquatic Acute 1   | H400 |
| Aquatic Chronic 1 | H410 |

Full text of H-phrases: see section 16

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: Danger.

Contains

: Etofenprox.

Hazard statements (CLP)

: H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
H336 - May cause drowsiness or dizziness.  
H362 - May cause harm to breast-fed children.  
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P201 - Obtain special instructions before use.  
P260 - Do not breathe vapours/spray.  
P263 - Avoid contact during pregnancy/while nursing.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P331 - Do NOT induce vomiting.  
  
P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.  
P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

EUH phrases

: EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

### 2.3. Other hazards

Combustible. This product can release vapours that readily form flammable mixtures. Vapour accumulation could flash and/or explode if ignited. This product can accumulate static charges which may cause an ignition source.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable.

#### 3.2. Mixture

| Name                                     | Product identifier   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]                  |
|--|--|---------|--|
| Etofenprox                               | (CAS No) 80844-07-1<br>(EC no) 407-980-2<br>(EC index no) 604-091-00-3 | 25 - 50 | Lact., H362<br>Aquatic Acute 1, H400 (M=100)<br>Aquatic Chronic 1, H410 (M=1000) |
| Solvent naphtha (petroleum), heavy arom. | (CAS No) 64742-94-5<br>(EC no) 265-198-5<br>(EC index no) 604-091-00-3 | < 70    | STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411<br>EUH066        |
| Surfactant                               | (CAS No) -<br>(EC no) -<br>(EC index no) -                             | < 10    | Flam.Liq. 3, H226  |

Full text of H-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : In the event of any complaints or symptoms, avoid further exposure.
- First-aid measures after inhalation : IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist call a doctor.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. Remove contaminated clothing and shoes.  
If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for at least 15 minutes, also under eyelides. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist.
- First-aid measures after ingestion : IF SWALLOWED: Immediately call a POISON CENTER or doctor. Never give anything by mouth to an unconscious person. Do not induce vomit.

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

Symptoms/injuries : No information available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |                                    |
|--------------------------------|------------------------------------|
| Suitable extinguishing media   | : Foam.                            |
|                                | Dry chemical.                      |
|                                | Carbon dioxide (CO <sub>2</sub> ). |
|                                | Water fog.                         |
|                                | Sand.                              |
| Unsuitable extinguishing media | : Water jet.                       |

### 5.2. Special hazards arising from the substance or mixture

Combustible liquid can form explosive mixtures at temperatures above the flashpoint. The vapour is heavier than air and may travel along the ground; distant ignition possible.

### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Firefighting instructions      | : Exercise caution when fighting any chemical fire.  |
|                                | Fight fire from safe distance and protected location.  |
|                                | Do not breathe fumes   |
|                                | Cool closed containers exposed to fire with water spray  |
|                                | If possible, take the containers out of dangerous zone.  |
|                                | Contain fire-fighting water with dikes or absorbents to prevent migration and entry into sewers, streams or groundwater. |
| Protection during firefighting | : Wear suitable protective clothing, gloves, eye/face protection and respiratory protection                              |
|                                | Wear a self-contained breathing apparatus.   |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

|                      |   |
|----------------------|---|
| Protective equipment | : Operators must wear suitable protective gloves when handling contaminated surfaces.                           |
| Emergency procedures | : Evacuate area.  |
|                      | Ensure adequate ventilation.  |
|                      | Avoid direct contact with the substance.  |
|                      | Contain any spills with dikes or absorbents to prevent migration and entry into sewers, streams or groundwater. |

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.  
Notify the authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Use only non-sparking tools.
- Clean up any spills as soon as possible, using an absorbent material to collect it.
- Once absorbed collect spilled material with shovels, buckets and place in closed containers and label properly.
- Remove as chemical waste, according to national or local legislation.
- In the event of major spillage: contact an expert.

### 6.4. Reference to other sections

See sections 7-8-13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Read label before use.
- Avoid spraying within 5 m of the field boundary to reduce effects on non-target insects or other arthropods.
- Use only with adequate ventilation.
- Avoid contact with eyes, skin, nose and mouth.
- Operators must wear suitable protective clothing (coveralls), suitable protective gloves and face protection when handling the concentrate.
- Operators must wear suitable protective gloves when handling contaminated surfaces.
- Opened containers must be carefully closed and kept upright to avoid leakage.
- Keep away from heat, sparks, open flames, hot surfaces. No smoking.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Where there may be potential of fire or explosion hazard, use explosion-proof electrical equipment and take precautions against build-up of electrostatic charges.
- Hygiene measures : Always wash your hands immediately after handling this product, and once again before leaving the workplace.
- Contaminated work clothing should not be allowed out of the workplace.
- Do not eat, drink or smoke when using this product.
- Wash contaminated clothing before reuse.

**7.2. Conditions for safe storage, including any incompatibilities**

- Storage conditions : Prevent unauthorised access.
- Store in a cool, dark and well ventilated area.
- Keep locked up and out of the reach of children.
- Keep in original containers, tightly closed.
- Keep away from food, drink and animal feedingstuffs.
- Keep away from sources of ignition.
- Protect against frost.
- Keep away from heat and direct sunlight.
- Avoid all possible sources of ignition (spark or flame)

**7.3. Specific end use(s)**

Insecticide for agricultural use. Refer to the label.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Hydrocarbons, C10, aromatics, <1% naphthalene**

RCP-TWA

100 mg/m<sup>3</sup> (Vapor, total hydrocarbons)

**8.2. Exposure controls**

- Appropriate engineering controls : Provide general ventilation. The use of closed system or local exhaust ventilation is recommended.
- Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

- Personal protective equipment : Protective clothing. Protective goggles. Gloves. Dust/aerosol mask.



- Hand protection : Wear impervious gloves resistant to chemical. Nitrile rubber.
- Eye protection : Safety goggles or a face shield.
- Skin and body protection : Protective clothing with long sleeves waterproof and resistant to chemicals. Rubber boots.
- Respiratory protection : Wear appropriate respirator for dust / organic vapors.
- Hygiene measures : Remove and wash contaminated clothing before re-use.
- Do not eat, drink or smoke while handling the product.
- Clean gloves with soap and water before removing.
- Wash hands and face with soap and water before eating, drinking smoking and immediately after handling product.
- Clean equipment, premises and work clothes regularly.
- Work clothing should remain on the work area and stored separately from street clothes.
- Environmental exposure controls : Discharge into the environment must be avoided.
- Do not contaminate surface and groundwater.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

- Physical state : Liquid

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|  |  |
|--|--|
| Colour                                     | : Amber.                                 |
| Odour                                      | : Aromatic odour.                        |
| Odour threshold                            | : No data available                      |
| pH at 21°C                                 | : 5.5                                    |
| Relative evaporation rate (butylacetate=1) | : No data available                      |
| Melting point                              | : No data available                      |
| Freezing point                             | : No data available                      |
| Boiling point                              | : No data available                      |
| Flash point                                | : 62 - 63 °C                             |
| Auto-ignition temperature                  | : 410 °C                                 |
| Decomposition temperature                  | : No data available                      |
| Flammability (solid, gas)                  | : No data available                      |
| Vapour pressure                            | : No data available                      |
| Relative vapour density at 20 °C           | : No data available                      |
| Relative density                           | : No data available                      |
| Density                                    | : 0.9553 g/cm <sup>3</sup> at 20°C       |
| Solubility                                 | : No data available                      |
| Log Pow                                    | : No data available                      |
| Log Kow                                    | : No data available                      |
| Viscosity, kinematic                       | : No data available                      |
| Viscosity, dynamic                         | : 3.4 mPa.s at 20 °C<br>2.0 mPa at 40 °C |
| Explosive properties                       | : No explosive properties.               |
| Oxidising properties                       | : No data available                      |
| Explosive limits                           | : No data available                      |

## 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is stable at normal handling and storage conditions.

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

This product can accumulate static charges which may cause an ignition source.

### 10.4. Conditions to avoid

Exposure to heat, sources of ignition.

### 10.5. Incompatible materials

Strong alkali, strong acid, strong oxidising/reducing chemicals.

### 10.6. Hazardous decomposition products

Combustion or thermal decomposition may generate toxic vapours: chlorine compounds, nitrogen oxides, carbon monoxide, hydrocarbons.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Vapours may cause drowsiness and dizziness.

| TREBON 30 EC        |               |
|---------------------|---------------|
| LD50 oral rat       | > 5000 mg/kg  |
| LD50 dermal rat     | > 2000 mg/kg  |
| LC50 inhalation rat | > 5.6 mg/l/4h |

Irritation : Irritating to eyes and skin.  
Irritant to rabbit skin.  
Irreversible effects on the rabbit eyes.

Corrosivity : Not classified

Sensitisation : Not classified

Repeated dose toxicity : Not classified

Carcinogenicity : Not classified

Mutagenicity : Not classified

Toxicity for reproduction : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

| TREBON 30 EC                 |   |
|------------------------------|---|
| LC50 Fishes                  | 0.032 mg/l (Rainbow trout - 96h)                  |
| LC50 other aquatic organisms | 0.032 mg/l (Bluegill sunfish - 96h)               |
| EC50 Daphnia                 | 0.0027 mg/l (Daphnia magna - 48h)                 |
| ErC50 Algae                  | 100 mg/l (Pseudokirchneriella subcapitata - 72 h) |

### 12.2. Persistence and degradability

| TREBON 30 EC                  |  |
|-------------------------------|--|
| Persistence and degradability | Not readily biodegradable.                                     |
| Hydrolytic half-life          | 11,6 days at pH 5,<br>259,9 days at pH7,<br>226.3 days at pH9. |
| Photolytic half-life          | 0,9 days at pH 5,<br>2m4 days at pH 7,<br>3,9 days at pH9.     |

### 12.3. Bioaccumulative potential

No additional information available.

### 12.4. Mobility in soil

No additional information available.

### 12.5. Results of PBT and vPvB assessment

No additional information available.

### 12.6. Other adverse effects

No additional information available



## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Apply triple washing procedure of the empty container and place the rinse water in the tank or container where the mixture is prepared. Handle empty containers and waste as established by the competent authorities.

Offer surplus and non-recyclable solutions to a licensed disposal company.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

UN-No. : 3082

UN-No.(IATA) : 3082

### 14.2. UN proper shipping name

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Etofenprox)

Transport document description : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Etofenprox), 9, III, (E)

### 14.3. Transport hazard class(es)

Class (UN) : 9

Class (IATA) : 9 - Miscellaneous dangerous goods.

Hazard labels (UN) : 9



### 14.4. Packing group

Packing group (UN) : III

### 14.5. Environmental hazards

Dangerous for the environment :

Marine pollutant



Other information : No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Hazard identification number (Kemler No.) : 90

Classification code (UN) : M6

Orange plates :



Special provision (ADR) : 274, 335, 601

Transport category (ADR) : 3

Tunnel restriction code : E

Limited quantities (ADR) : 5L

Excepted quantities (ADR) : E1

EAC code : •3Z

**14.6.2. Transport by sea**

EmS-No. (1) : F-A

EmS-No. (2) : S-F

**14.6.3. Air transport**

No additional information available

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**SECTION 15: Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
**15.1.1. EU-Regulations**

No REACH Annex XVII restrictions

Contains no REACH candidate substance

**15.1.2. National regulations**

No additional information available

**15.2. Chemical safety assessment**

No additional information available

**SECTION 16: Other information**

Full text of H- and EUH-phrases:

|                     |   |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4                                       |
| Aquatic Acute 1     | Hazardous to the aquatic environment — Acute Hazard, Category 1         |
| Aquatic Chronic 1   | Hazardous to the aquatic environment — Chronic Hazard, Category 1       |
| Aquatic Chronic 2   | Hazardous to the aquatic environment — Chronic Hazard, Category 2       |
| Asp. Tox. 1         | Aspiration hazard, Category 1   |
| Carc. 2             | Carcinogenicity, Category 2   |
| Lact.               | Reproductive toxicity, Additional category, Effects on or via lactation |
| STOT SE 3           | Specific target organ toxicity — Single exposure, Category 3, Narcosis  |
| H302                | Harmful if swallowed  |
| H304                | May be fatal if swallowed and enters airways                            |
| H315                | Causes skin irritation.   |
| H318                | Causes serious eye damage.  |
| H226                | Flammable liquid and vapour.  |
| H336                | May cause drowsiness or dizziness                                       |
| H351                | Suspected of causing cancer   |
| H362                | May cause harm to breast-fed children                                   |
| 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                         |