

# SAFETY DATA SHEET



Seahorse XFp Mito Fuel Flex Test Kit, Part Number 103270-100

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

### 1.1 Product identifier

**Product name** : Seahorse XFp Mito Fuel Flex Test Kit, Part Number 103270-100  
**Part No. (Kit)** : 103270-100  
**Part No.** : Etomoxir Not available.  
BPTES Not available.  
UK5099 Not available.

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

| Identified uses  |              |
|--|--------------|
| For research use only. Not for use in diagnostic procedures (RUO). |              |
| Etomoxir   | 6 x 0.027 mg |
| BPTES  | 6 x 1.885 mg |
| UK5099   | 6 x 1.267 mg |

### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(44)-870-8200418

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Etomoxir Mono-constituent substance  
BPTES Mixture  
UK5099 Mixture

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

**Etomoxir**  
H301 ACUTE TOXICITY (oral) - Category 3

**Ingredients of unknown toxicity** : BPTES Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%  
UK5099 Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Date of issue/Date of revision** : 20/11/2017

## SECTION 2: Hazards identification

**Hazard pictograms** : Etomoxir



**Signal word** : Etomoxir  
BPTES  
UK5099

Danger  
No signal word.  
No signal word.

**Hazard statements** : Etomoxir  
BPTES  
UK5099

H301 - Toxic if swallowed.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.

### Precautionary statements

**Prevention** : Etomoxir  
  
BPTES  
UK5099

P270 - Do not eat, drink or smoke when using this product.  
P264 - Wash hands thoroughly after handling.  
Not applicable.  
Not applicable.

**Response** : Etomoxir  
  
BPTES  
UK5099

P301 + P310 + P330 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth.  
Not applicable.  
Not applicable.

**Storage** : Etomoxir  
BPTES  
UK5099

P405 - Store locked up.  
Not applicable.  
Not applicable.

**Disposal** : Etomoxir  
  
BPTES  
UK5099

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.  
Not applicable.  
Not applicable.

**Hazardous ingredients** : BPTES  
UK5099

Not applicable.  
Not applicable.

**Supplemental label elements** : Etomoxir  
BPTES  
UK5099

Not applicable.  
Safety data sheet available on request.  
Contains isocyanates. May produce an allergic reaction.  
Safety data sheet available on request.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Etomoxir  
BPTES  
UK5099

Not applicable.  
Not applicable.  
Not applicable.

### Special packaging requirements

**Tactile warning of danger** : Etomoxir  
BPTES  
UK5099

Not applicable.  
Not applicable.  
Not applicable.

### 2.3 Other hazards

**Other hazards which do not result in classification** : Etomoxir  
BPTES  
UK5099

May form explosible dust-air mixture if dispersed.  
None known.  
None known.

Seahorse XFp Mito Fuel Flex Test Kit, Part Number 103270-100

## SECTION 3: Composition/information on ingredients

**3.1 Substances** : Etomoxir Mono-constituent substance  
 BPTES Mixture  
 UK5099 Mixture

| Product/ingredient name   | Identifiers                     | %   | Regulation (EC) No. 1272/2008 [CLP]   | Type |
|---|---------------------------------|-----|---|------|
| <b>Etomoxir</b><br>(R)-(+)-2-[6-(4-Chlorophenoxy)hexyl]-oxirane-2-carboxylic acid sodium salt | CAS: 828934-41-4                | 100 | Acute Tox. 3, H301  | [A]  |
| <b>BPTES</b><br>Sodium chloride   | EC: 231-598-3<br>CAS: 7647-14-5 | ≤3  | Eye Irrit. 2, H319  | [1]  |
| <b>UK5099</b><br>Sodium chloride  | EC: 231-598-3<br>CAS: 7647-14-5 | ≤3  | Eye Irrit. 2, H319<br><br><b>See Section 16 for the full text of the H statements declared above.</b> | [1]  |

### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy
- [A] Constituent
- [B] Impurity
- [C] Stabilising additive

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

|                    |            |  |
|--------------------|------------|--|
| <b>Eye contact</b> | : Etomoxir | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.   |
|                    | BPTES      | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.  |
|                    | UK5099     | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.  |
| <b>Inhalation</b>  | : Etomoxir | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
|                    | BPTES      | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.  |

**Date of issue/Date of revision** : 20/11/2017

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## SECTION 4: First aid measures

|                                   |            |  |
|-----------------------------------|------------|--|
|                                   | UK5099     | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.  |
| <b>Skin contact</b>               | : Etomoxir | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.  |
|                                   | BPTES      | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.   |
|                                   | UK5099     | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.   |
| <b>Ingestion</b>                  | : Etomoxir | Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
|                                   | BPTES      | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.  |
|                                   | UK5099     | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.  |
| <b>Protection of first-aiders</b> | : Etomoxir | No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.   |
|                                   | BPTES      | No action shall be taken involving any personal risk or without suitable training.   |
|                                   | UK5099     | No action shall be taken involving any personal risk or without suitable training.   |

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

#### Potential acute health effects

|                    |            |  |
|--------------------|------------|--|
| <b>Eye contact</b> | : Etomoxir | Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.                   |
|                    | BPTES      | No known significant effects or critical hazards.  |
|                    | UK5099     | No known significant effects or critical hazards.  |
| <b>Inhalation</b>  | : Etomoxir | Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. |
|                    | BPTES      | No known significant effects or critical hazards.  |
|                    | UK5099     | No known significant effects or critical hazards.  |

## SECTION 4: First aid measures

|  |                                   |   |
|--|-----------------------------------|---|
| <b>Skin contact</b>                        | : Etomoxir<br>BPTES<br>UK5099     | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Ingestion</b>                           | : Etomoxir<br>BPTES<br>UK5099     | Toxic if swallowed.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards.                               |
| <b><u>Over-exposure signs/symptoms</u></b> |                                   |   |
| <b>Eye contact</b>                         | : Etomoxir<br><br>BPTES<br>UK5099 | Adverse symptoms may include the following:<br>irritation<br>redness<br>No specific data.<br>No specific data.  |
| <b>Inhalation</b>                          | : Etomoxir<br><br>BPTES<br>UK5099 | Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing<br>No specific data.<br>No specific data.                           |
| <b>Skin contact</b>                        | : Etomoxir<br>BPTES<br>UK5099     | No specific data.<br>No specific data.<br>No specific data.   |
| <b>Ingestion</b>                           | : Etomoxir<br>BPTES<br>UK5099     | No specific data.<br>No specific data.<br>No specific data.   |

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

|                            |                                   |   |
|----------------------------|-----------------------------------|---|
| <b>Notes to physician</b>  | : Etomoxir<br><br>BPTES<br>UK5099 | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.<br>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.<br>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| <b>Specific treatments</b> | : Etomoxir<br>BPTES<br>UK5099     | No specific treatment.<br>No specific treatment.<br>No specific treatment.  |

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

|                                       |                                   |  |
|---------------------------------------|-----------------------------------|--|
| <b>Suitable extinguishing media</b>   | : Etomoxir<br>BPTES<br>UK5099     | Use dry chemical powder.<br>Use an extinguishing agent suitable for the surrounding fire.<br>Use an extinguishing agent suitable for the surrounding fire. |
| <b>Unsuitable extinguishing media</b> | : Etomoxir<br><br>BPTES<br>UK5099 | Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.<br>None known.<br>None known.                      |

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

|  |                               |  |
|--|-------------------------------|--|
| <b>Hazards from the substance or mixture</b> | : Etomoxir<br>BPTES<br>UK5099 | May form explosible dust-air mixture if dispersed.<br>No specific fire or explosion hazard.<br>No specific fire or explosion hazard.   |
| <b>Hazardous combustion products</b>         | : Etomoxir<br><br>BPTES       | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>halogenated compounds<br>carbonyl halides<br>metal oxide/oxides<br>Decomposition products may include the following materials: |

## SECTION 5: Firefighting measures

|        |  |  |
|--------|--|--|
|        |  | halogenated compounds<br>metal oxide/oxides  |
| UK5099 |  | Decomposition products may include the following materials:<br>halogenated compounds<br>metal oxide/oxides |

### 5.3 Advice for firefighters

#### Special precautions for fire-fighters

|            |  |  |
|------------|--|--|
| : Etomoxir |  | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
| BPTES      |  | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.  |
| UK5099     |  | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.  |

#### Special protective equipment for fire-fighters

|            |  |   |
|------------|--|---|
| : Etomoxir |  | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |
| BPTES      |  | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |
| UK5099     |  | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

|            |  |  |
|------------|--|--|
| : Etomoxir |  | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| BPTES      |  | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.  |
| UK5099     |  | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.  |

## SECTION 6: Accidental release measures

|   |   |  |
|---|---|--|
| <b>For emergency responders</b>                                 | : Etomoxir  | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".  |
|   | BPTES   | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".  |
|   | UK5099  | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".  |
| <b>6.2 Environmental precautions</b>                            | : Etomoxir  | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).  |
|   | BPTES   | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).  |
|   | UK5099  | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).  |
| <b>6.3 Methods and material for containment and cleaning up</b> |   |  |
| <b>Methods for cleaning up</b>                                  | : Etomoxir  | Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. |
|   | BPTES   | Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.   |
|   | UK5099  | Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.   |
| <b>6.4 Reference to other sections</b>                          | : See Section 1 for emergency contact information.<br>See Section 8 for information on appropriate personal protective equipment.<br>See Section 13 for additional waste treatment information. |  |

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

|                            |            |  |
|----------------------------|------------|--|
| <b>Protective measures</b> | : Etomoxir | Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and |
|----------------------------|------------|--|

## SECTION 7: Handling and storage

|   |            |   |
|---|------------|---|
|   |            | bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.  |
|   | BPTES      | Put on appropriate personal protective equipment (see Section 8).   |
|   | UK5099     | Put on appropriate personal protective equipment (see Section 8).   |
| <b>Advice on general occupational hygiene</b> | : Etomoxir | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
|   | BPTES      | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
|   | UK5099     | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |

### 7.2 Conditions for safe storage, including any incompatibilities

|                |            |   |
|----------------|------------|---|
| <b>Storage</b> | : Etomoxir | Storage temperature: room temperature. Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
|                | BPTES      | Storage temperature: room temperature. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.  |
|                | UK5099     | Storage temperature: room temperature. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials  |



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## SECTION 7: Handling and storage

before handling or use.

### Danger criteria

| Category       | Notification and MAPP threshold | Safety report threshold |
|----------------|---------------------------------|-------------------------|
| Etomoxir<br>H2 | 50                              | 200                     |

### 7.3 Specific end use(s)

|   |                               |   |
|---|-------------------------------|---|
| <b>Recommendations</b>                      | : Etomoxir<br>BPTES<br>UK5099 | Industrial applications, Professional applications.<br>Industrial applications, Professional applications.<br>Industrial applications, Professional applications. |
| <b>Industrial sector specific solutions</b> | : Etomoxir<br>BPTES<br>UK5099 | Not applicable.<br>Not applicable.<br>Not applicable.   |

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

|  |  |
|--|--|
| <b>Recommended monitoring procedures</b> | : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required. |
|--|--|

#### DNELs/DMELs

No DNELs/DMELs available.

#### PNECs

No PNECs available

### 8.2 Exposure controls

|   |  |
|---|--|
| <b>Appropriate engineering controls</b> | : Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
|---|--|

#### Individual protection measures

|                            |   |
|----------------------------|---|
| <b>Hygiene measures</b>    | : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |
| <b>Eye/face protection</b> | : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.                                 |

#### Skin protection

## SECTION 8: Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

|  |                               |  |
|--|-------------------------------|--|
| <b>Physical state</b>                          | : Etomoxir<br>BPTES<br>UK5099 | Solid. [Powder.]<br>Solid.<br>Solid.               |
| <b>Colour</b>                                  | : Etomoxir<br>BPTES<br>UK5099 | White.<br>White.<br>White.                         |
| <b>Odour</b>                                   | : Etomoxir<br>BPTES<br>UK5099 | Not available.<br>Odourless.<br>Odourless.         |
| <b>Odour threshold</b>                         | : Etomoxir<br>BPTES<br>UK5099 | Not available.<br>Not available.<br>Not available. |
| <b>pH</b>                                      | : Etomoxir<br>BPTES<br>UK5099 | Not available.<br>Not available.<br>Not available. |
| <b>Melting point/freezing point</b>            | : Etomoxir<br>BPTES<br>UK5099 | Not available.<br>Not available.<br>Not available. |
| <b>Initial boiling point and boiling range</b> | : Etomoxir<br>BPTES<br>UK5099 | Not available.<br>Not available.<br>Not available. |
| <b>Flash point</b>                             | : Etomoxir<br>BPTES<br>UK5099 | Not available.<br>Not available.<br>Not available. |
| <b>Evaporation rate</b>                        | : Etomoxir<br>BPTES<br>UK5099 | Not available.<br>Not available.<br>Not available. |
| <b>Flammability (solid, gas)</b>               | : Etomoxir<br>BPTES<br>UK5099 | Not available.<br>Not available.<br>Not available. |

## SECTION 9: Physical and chemical properties

|   |                                       |   |
|---|---------------------------------------|---|
| <b>Upper/lower flammability or explosive limits</b> | : Etomoxir<br>BPTES<br>UK5099         | Not available.<br>Not available.<br>Not available.  |
| <b>Vapour pressure</b>                              | : Etomoxir<br>BPTES<br>UK5099         | Not available.<br>Not available.<br>Not available.  |
| <b>Vapour density</b>                               | : Etomoxir<br>BPTES<br>UK5099         | Not available.<br>Not available.<br>Not available.  |
| <b>Relative density</b>                             | : Etomoxir<br>BPTES<br>UK5099         | Not available.<br>Not available.<br>Not available.  |
| <b>Solubility(ies)</b>                              | : Etomoxir<br><br>BPTES<br><br>UK5099 | Soluble in the following materials: cold water and hot water.<br>Soluble in the following materials: cold water and hot water.<br>Soluble in the following materials: cold water and hot water. |
| <b>Partition coefficient: n-octanol/water</b>       | : Etomoxir<br>BPTES<br>UK5099         | Not available.<br>Not available.<br>Not available.  |
| <b>Auto-ignition temperature</b>                    | : Etomoxir<br>BPTES<br>UK5099         | Not available.<br>Not available.<br>Not available.  |
| <b>Decomposition temperature</b>                    | : Etomoxir<br>BPTES<br>UK5099         | Not available.<br>Not available.<br>Not available.  |
| <b>Viscosity</b>                                    | : Etomoxir<br>BPTES<br>UK5099         | Not available.<br>Not available.<br>Not available.  |
| <b>Explosive properties</b>                         | : Etomoxir<br>BPTES<br>UK5099         | Not available.<br>Not available.<br>Not available.  |
| <b>Oxidising properties</b>                         | : Etomoxir<br>BPTES<br>UK5099         | Not available.<br>Not available.<br>Not available.  |

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

|                                |                                       |  |
|--------------------------------|---------------------------------------|--|
| <b>10.1 Reactivity</b>         | : Etomoxir<br><br>BPTES<br><br>UK5099 | No specific test data related to reactivity available for this product or its ingredients.<br>No specific test data related to reactivity available for this product or its ingredients.<br>No specific test data related to reactivity available for this product or its ingredients. |
| <b>10.2 Chemical stability</b> | : Etomoxir<br>BPTES<br>UK5099         | The product is stable.<br>The product is stable.<br>The product is stable.   |

## SECTION 10: Stability and reactivity

|  |            |  |
|--|------------|--|
| <b>10.3 Possibility of hazardous reactions</b> | : Etomoxir | Under normal conditions of storage and use, hazardous reactions will not occur.  |
|  | BPTES      | Under normal conditions of storage and use, hazardous reactions will not occur.  |
|  | UK5099     | Under normal conditions of storage and use, hazardous reactions will not occur.  |
| <b>10.4 Conditions to avoid</b>                | : Etomoxir | Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation. |
|  | BPTES      | No specific data.  |
|  | UK5099     | No specific data.  |
| <b>10.5 Incompatible materials</b>             | : Etomoxir | Reactive or incompatible with the following materials: oxidizing materials   |
|  | BPTES      | May react or be incompatible with oxidising materials.   |
|  | UK5099     | May react or be incompatible with oxidising materials.   |
| <b>10.6 Hazardous decomposition products</b>   | : Etomoxir | Under normal conditions of storage and use, hazardous decomposition products should not be produced.   |
|  | BPTES      | Under normal conditions of storage and use, hazardous decomposition products should not be produced.   |
|  | UK5099     | Under normal conditions of storage and use, hazardous decomposition products should not be produced.   |

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

| Product/ingredient name          | Result    | Species | Dose       | Exposure |
|----------------------------------|-----------|---------|------------|----------|
| <b>BPTES</b><br>Sodium chloride  | LD50 Oral | Rat     | 3000 mg/kg | -        |
| <b>UK5099</b><br>Sodium chloride | LD50 Oral | Rat     | 3000 mg/kg | -        |

#### Acute toxicity estimates

Not available.

#### Irritation/Corrosion

| Product/ingredient name          | Result                   | Species | Score | Exposure                | Observation |
|----------------------------------|--------------------------|---------|-------|-------------------------|-------------|
| <b>BPTES</b><br>Sodium chloride  | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100 milligrams | -           |
|                                  | Eyes - Moderate irritant | Rabbit  | -     | 10 milligrams           | -           |
|                                  | Skin - Mild irritant     | Rabbit  | -     | 24 hours 500 milligrams | -           |
| <b>UK5099</b><br>Sodium chloride | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100 milligrams | -           |
|                                  | Eyes - Moderate irritant | Rabbit  | -     | 10 milligrams           | -           |
|                                  | Skin - Mild irritant     | Rabbit  | -     | 24 hours 500 milligrams | -           |

#### Sensitiser

## SECTION 11: Toxicological information

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : Etomoxir  
BPTES  
UK5099

Routes of entry anticipated: Oral, Dermal, Inhalation.  
Routes of entry anticipated: Oral, Dermal, Inhalation.  
Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

**Inhalation** : Etomoxir

Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

BPTES  
UK5099

No known significant effects or critical hazards.  
No known significant effects or critical hazards.

**Ingestion** : Etomoxir  
BPTES  
UK5099

Toxic if swallowed.

No known significant effects or critical hazards.  
No known significant effects or critical hazards.

**Skin contact** : Etomoxir  
BPTES  
UK5099

No known significant effects or critical hazards.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.

**Eye contact** : Etomoxir

Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

BPTES  
UK5099

No known significant effects or critical hazards.  
No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation** : Etomoxir

Adverse symptoms may include the following:  
respiratory tract irritation  
coughing

BPTES  
UK5099

No specific data.  
No specific data.

**Ingestion** : Etomoxir  
BPTES  
UK5099

No specific data.  
No specific data.  
No specific data.

**Skin contact** : Etomoxir  
BPTES  
UK5099

No specific data.  
No specific data.  
No specific data.

**Eye contact** : Etomoxir

Adverse symptoms may include the following:  
irritation  
redness

BPTES  
UK5099

No specific data.  
No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

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## SECTION 11: Toxicological information

**Potential delayed effects** : Not available.

### Potential chronic health effects

|                              |                               |  |
|------------------------------|-------------------------------|--|
| <b>General</b>               | : Etomoxir<br>BPTES<br>UK5099 | Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Carcinogenicity</b>       | : Etomoxir<br>BPTES<br>UK5099 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards.                                    |
| <b>Mutagenicity</b>          | : Etomoxir<br>BPTES<br>UK5099 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards.                                    |
| <b>Teratogenicity</b>        | : Etomoxir<br>BPTES<br>UK5099 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards.                                    |
| <b>Developmental effects</b> | : Etomoxir<br>BPTES<br>UK5099 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards.                                    |
| <b>Fertility effects</b>     | : Etomoxir<br>BPTES<br>UK5099 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards.                                    |

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name          | Result  | Species  | Exposure                       |
|----------------------------------|---|--|--------------------------------|
| <b>BPTES</b><br>Sodium chloride  | Acute EC50 4.74 g/L Fresh water   | Algae - Chlamydomonas reinhardtii  | 96 hours                       |
|                                  | Acute EC50 519.6 mg/l Fresh water   | Crustaceans - Cypris subglobosa  | 48 hours                       |
|                                  | Acute EC50 402600 µg/l Fresh water  | Daphnia - Daphnia magna  | 48 hours                       |
|                                  | Acute IC50 6.87 g/L Fresh water   | Aquatic plants - Lemna minor   | 96 hours                       |
|                                  | Acute LC50 1000000 µg/l Fresh water   | Fish - Morone saxatilis - Larvae   | 96 hours                       |
|                                  | Chronic LC10 781 mg/l Fresh water   | Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)                    | 3 weeks                        |
|                                  | Chronic NOEC 6 g/L Fresh water<br>Chronic NOEC 0.314 g/L Fresh water<br>Chronic NOEC 100 mg/l Fresh water | Aquatic plants - Lemna minor<br>Daphnia - Daphnia pulex<br>Fish - Gambusia holbrooki - Adult | 96 hours<br>21 days<br>8 weeks |
| <b>UK5099</b><br>Sodium chloride | Acute EC50 4.74 g/L Fresh water   | Algae - Chlamydomonas reinhardtii  | 96 hours                       |
|                                  | Acute EC50 519.6 mg/l Fresh water   | Crustaceans - Cypris subglobosa  | 48 hours                       |
|                                  | Acute EC50 402600 µg/l Fresh water  | Daphnia - Daphnia magna  | 48 hours                       |
|                                  | Acute IC50 6.87 g/L Fresh water   | Aquatic plants - Lemna minor   | 96 hours                       |
|                                  | Acute LC50 1000000 µg/l Fresh water   | Fish - Morone saxatilis - Larvae   | 96 hours                       |
|                                  | Chronic LC10 781 mg/l Fresh water   | Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)                    | 3 weeks                        |
|                                  | Chronic NOEC 6 g/L Fresh water<br>Chronic NOEC 0.314 g/L Fresh water<br>Chronic NOEC 100 mg/l Fresh water | Aquatic plants - Lemna minor<br>Daphnia - Daphnia pulex<br>Fish - Gambusia holbrooki - Adult | 96 hours<br>21 days<br>8 weeks |

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## SECTION 12: Ecological information

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable.

**vPvB** : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

**ADR/RID / IMDG / IATA** : Not regulated.

#### Additional information

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** : Not available.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorisation

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

|   |                               |   |
|---|-------------------------------|---|
| <b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b> | : Etomoxir<br>BPTES<br>UK5099 | Not applicable.<br>Not applicable.<br>Not applicable. |
|---|-------------------------------|---|

#### Other EU regulations

##### Ozone depleting substances (1005/2009/EU)

Not listed.

##### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

##### Seveso Directive

This product is not controlled under the Seveso Directive.

##### Danger criteria

| Category       |
|----------------|
| Etomoxir<br>H2 |

#### International regulations

##### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

##### Montreal Protocol (Annexes A, B, C, E)

Not listed.

##### Stockholm Convention on Persistent Organic Pollutants

Not listed.

##### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

##### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

#### Inventory list

|                          |  |
|--------------------------|--|
| <b>Australia</b>         | : Not determined.  |
| <b>Canada</b>            | : Not determined.  |
| <b>China</b>             | : Not determined.  |
| <b>Europe</b>            | : Not determined.  |
| <b>Japan</b>             | : <b>Japan inventory (ENCS):</b> Not determined.<br><b>Japan inventory (ISHL):</b> Not determined. |
| <b>Malaysia</b>          | : Not determined.  |
| <b>New Zealand</b>       | : Not determined.  |
| <b>Philippines</b>       | : Not determined.  |
| <b>Republic of Korea</b> | : Not determined.  |



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## SECTION 15: Regulatory information

|               |                   |
|---------------|-------------------|
| Taiwan        | : Not determined. |
| Thailand      | : Not determined. |
| Turkey        | : Not determined. |
| United States | : Not determined. |
| Viet Nam      | : Not determined. |

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments might still be required.

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification                        | Justification   |
|---------------------------------------|-----------------|
| <b>Etomoxir</b><br>Acute Tox. 3, H301 | Expert judgment |

### Full text of abbreviated H statements

|                         |                                |
|-------------------------|--------------------------------|
| <b>Etomoxir</b><br>H301 | Toxic if swallowed.            |
| <b>BPTES</b><br>H319    | Causes serious eye irritation. |
| <b>UK5099</b><br>H319   | Causes serious eye irritation. |

### Full text of classifications [CLP/GHS]

|                                       |  |
|---------------------------------------|--|
| <b>Etomoxir</b><br>Acute Tox. 3, H301 | ACUTE TOXICITY (oral) - Category 3             |
| <b>BPTES</b><br>Eye Irrit. 2, H319    | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| <b>UK5099</b><br>Eye Irrit. 2, H319   | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |

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#### Notice to reader

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