SAFETY DATA SHEET
Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Annex II

Pyrinex 48 EC
Revision Date 01-Mar-2015
Publish Date 01-Mar-2015

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Pyrinex 48 EC
Pure substance/mixture Mixture

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

Recommended Use Insecticide
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier Address ADAMA Agricultural Solutions UK Ltd
Unit 15, Thatcham Buisness Village Colthrop Way,
Thatcham Berkshire RG19 4LW, UK : 01635 860555
Fax: 01635 861555

For further information, please contact

Email address ukenquiries@adama.com

1.4. Emergency telephone number

Emergency Telephone National Chemical Emergency Centre (UK):
Tel: 01865 407333 (24 hours)

Section 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acute toxicity - Oral Category 4 - (H302)
Acute toxicity - Inhalation Category 4 - (H332)
(Dusts/Mists)
Skin corrosion/irritation Category 2 - (H315)
Serious eye damage/eye irritation Category 2 - (H319)
Skin sensitization Category 1 - (H317)
Acute aquatic toxicity Category 1 - (H400)
Hazardous to the Aquatic Category 1 - (H410)
Environment - Chronic Hazard Category 3 - (H226)
Flammable liquids
Classification according to Directive 67/548/EEC or 1999/45/EC
Full text of R-phrases: see section 16
R10 - Xn; R20/22 - Xi; R36/38 - R43 - N; R50-53

2.2. Label elements

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

Hazard pictograms

Signal word Warning

Hazard Statements
H302 - Harmful if swallowed
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H410 - Very toxic to aquatic life with long lasting effects
H226 - Flammable liquid and vapor

Precautionary Statements
P102 - Keep out of reach of children
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P270 - Do not eat, drink or smoke when using this product
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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
P501 - Dispose of contents/container to an approved waste disposal plant

EU Specific Hazard Statements
EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

Additional phrases for PPP
SP1 - Do not contaminate water with the product or its container

2.3. Other hazards
No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight- %</th>
<th>CAS No</th>
<th>EC No</th>
<th>Index No</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Classification according to 67/548/EEC</th>
<th>M-Factor</th>
<th>REACH Registration Number</th>
</tr>
</thead>
</table>

ADAMA
Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection.

Inhalation
Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Skin Contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

Eye contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Ingestion
Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

Self-protection of the first aider
Use personal protective equipment as required.

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

Symptoms
None known

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

Note to physicians
Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
No information available.

5.2. Special hazards arising from the substance or mixture
No specific hazard known.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus
In the event of fire and/or explosion do not breathe fumes.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Remove all sources of ignition. Evacuate personnel to safe areas. Use only with adequate ventilation. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

For emergency responders
Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up
Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Other Information
See also section 8,13

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling
Use only with adequate ventilation. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

General Hygiene Considerations
When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

Risk Management Methods (RMM)
The information required is contained in this Material Safety Data Sheet.
8.1. Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>European Union</th>
<th>United Kingdom</th>
<th>France</th>
<th>Spain</th>
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</table>

8.2. Exposure controls

**Engineering Controls**

Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

**Eye/face protection**

Tight sealing safety goggles.

**Body Protection**

Gloves made of plastic or rubber, Antistatic footwear. Wear fire/flame resistant/retardant clothing, Suitable protective clothing. Apron, Rubber boots. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**General Hygiene Considerations**

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Do not eat, drink or smoke when using this product.

**Environmental exposure controls**

Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains.

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**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Method</th>
<th>Remarks</th>
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<tr>
<td>Appearance</td>
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<td>Physical state</td>
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<td>Color</td>
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<td>Odor</td>
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<tr>
<td>Odor threshold</td>
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</table>
Section 10: STABILITY AND REACTIVITY

10.1. Reactivity
No data available.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
None under normal processing.

10.4. Conditions to avoid
Heat, flames and sparks.

10.5. Incompatible materials
No information available

10.6. Hazardous decomposition products
None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Values</th>
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<th>Method</th>
<th>Remarks</th>
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<td>Oral LD50 mg/kg</td>
<td>508</td>
<td>Rat</td>
<td>OECD 401</td>
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<tr>
<td>Dermal LD50 mg/kg</td>
<td>&gt; 2000</td>
<td>Rabbit</td>
<td>OECD 402</td>
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<tr>
<td>Inhalation LC50 mg/l/4h</td>
<td>3.3</td>
<td>Rat</td>
<td>EPA-FIFRA 81-3</td>
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ADAMA
Chronic toxicity

Germ cell mutagenicity
Chemical Name
Chlorpyrifos : Not classified

Carcinogenicity
Chemical Name
Chlorpyrifos

Reproductive toxicity
Chemical Name
Chlorpyrifos : Not toxic for the reproductive system

STOT - single exposure
Chemical Name
Chlorpyrifos : No information available

STOT - repeated exposure
Chemical Name
Chlorpyrifos : No information available

Aspiration hazard
Chemical Name
Chlorpyrifos : No information available

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity

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<thead>
<tr>
<th>Acute toxicity</th>
<th>Values</th>
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<tbody>
<tr>
<td>Fish 96-hour LC50 mg/l</td>
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<tr>
<td>Crustacea 48-hour EC50 mg/l</td>
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<tr>
<td>Algae 72-hour EC50 mg/l</td>
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<tr>
<td>Other plants EC50 mg/l</td>
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</table>

Terrestrial Toxicity
Birds Oral LD50 mg/kg
Chemical Name
Chlorpyrifos : 476

Bees Oral LD50 μg/bee
Chemical Name
Chlorpyrifos : 0.25

12.2. Persistence and degradability

Abiotic Degradation
Water DT50 days
Chemical Name
Chlorpyrifos : 16 - 35

Soil DT50 days
Chemical Name
12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Partition Coefficient (n-octanol/water) Log Pow</th>
<th>Chemical Name</th>
<th>Values</th>
<th>Method</th>
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12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Adsorption/Desorption</th>
<th>Chemical Name</th>
<th>Values</th>
<th>Method</th>
<th>Remarks</th>
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<td>2785 - 31000</td>
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12.5. Results of PBT and vPvB assessment
The components in this formulation do not meet the criteria for classification as PBT or vPvB

12.6. Other adverse effects
No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

- **Waste from residues/unused products**: Disposal should be in accordance with applicable regional, national and local laws and regulations.
- **Contaminated packaging**: Improper disposal or reuse of this container may be dangerous and illegal.
- **Other Information**: Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORTATION INFORMATION

<table>
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<th>IMDG/IMO</th>
<th>14.1 UN/ID No</th>
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<td>14.5 Marine pollutant</td>
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<td>14.6 Special precautions for user</td>
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<td>14.5 Environmental hazard</td>
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<td>14.6 Special precautions for user</td>
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Section 15: REGULATORY INFORMATION

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

15.2. Chemical safety assessment
A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

Section 16: OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3
R10 - Flammable
R22 - Harmful if swallowed
R25 - Toxic if swallowed
R38 - Irritating to skin
R41 - Risk of serious damage to eyes
R67 - Vapors may cause drowsiness and dizziness
R20/21 - Harmful by inhalation and in contact with skin
R20/22 - Harmful by inhalation and if swallowed
R36/38 - Irritating to eyes and skin
R37/38 - Irritating to respiratory system and skin
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of H-Statements referred to under sections 2 and 3
H226 - Flammable liquid and vapor
H301 - Toxic if swallowed
H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet