



## SAFETY DATA SHEET PYTHRIN 33

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

#### 1.1. Product identifier

Product name                    PYTHRIN 33  
Product number                FP242

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

Identified uses                Insecticide.  
Uses advised against        No specific uses advised against are identified.

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

Supplier                        PelGar International Ltd  
Unit 13  
Newman Lane  
Alton  
Hampshire  
GU34 2QR  
United Kingdom  
Telephone : +44(0)1420 80744  
E-mail: garry@pelgar.co.uk

#### 1.4. Emergency telephone number

Emergency telephone        +44(0)1420 80744 (Monday - Friday 9.00am - 5pm)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

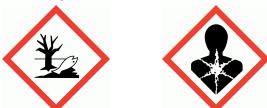
Physical hazards                Not Classified  
Health hazards                Asp. Tox. 1 - H304  
Environmental hazards        Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Human health                Aspiration hazard.

Environmental                The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

#### 2.2. Label elements

##### Pictogram



## PYTHRIN 33

<b>Signal word</b>	Danger
<b>Hazard statements</b>	H304 May be fatal if swallowed and enters airways. H410 Very toxic to aquatic life with long lasting effects.
<b>Precautionary statements</b>	P273 Avoid release to the environment. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331 Do NOT induce vomiting. P391 Collect spillage. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.

### 2.3. Other hazards

Not known

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>ODOURLESS KEROSENE</b>	<b>60-100%</b>
CAS number: 64742-47-8	EC number: 265-149-8

#### **Classification**

Asp. Tox. 1 - H304

<b>PIPERONYL BUTOXIDE</b>	<b>1-5%</b>
CAS number: 51-03-6	EC number: 200-076-7
M factor (Acute) = 1	M factor (Chronic) = 1

#### **Classification**

Aquatic Acute 1 - H400  
Aquatic Chronic 1 - H410

<b>PYRETHRINS INCLUDING CINERINS</b>	<b>&lt;1%</b>
CAS number: 8003-34-7	EC number: 232-319-8
M factor (Acute) = 10	M factor (Chronic) = 10

#### **Classification**

Acute Tox. 4 - H302  
Acute Tox. 4 - H312  
Acute Tox. 4 - H332  
Aquatic Acute 1 - H400  
Aquatic Chronic 1 - H410

The full text for all hazard statements is displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	This product contains a low concentration of a pyrethroid insecticide, which is less harmful than the solvent carrier. Repeated contamination may give rise to allergenic reactions and people with a history of asthma or skin problems should avoid use or exposure.
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## PYTHRIN 33

<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Do not induce vomiting. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. Get medical attention.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Rinse immediately with plenty of water. Get medical attention promptly if symptoms occur after washing.

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

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

<b>Notes for the doctor</b>	This product does NOT contain an organophosphorus or carbamate compound - atropine should NOT be used. Treatment is symptomatic. Recovery is normally spontaneous.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media</b>	High volume water jet.

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

<b>Specific hazards</b>	Fire or high temperatures create: Toxic gases/vapours/fumes of: Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). Nitrous gases (NO <sub>x</sub> ). No unusual fire or explosion hazards noted.
<b>Hazardous combustion products</b>	Does not decompose when used and stored as recommended.

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Use water to keep fire exposed containers cool and disperse vapours. Control run-off water by containing and keeping it out of sewers and watercourses. Keep up-wind to avoid fumes.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. If involved in a fire, shut off flow if it can be done without risk.
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### 6.4. Reference to other sections

## SECTION 7: Handling and storage

## PYTHRIN 33

### 7.1. Precautions for safe handling

**Usage precautions** Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and eyes. Persons susceptible to allergic reactions should not handle this product.

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

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place.

**Storage class** Keep in pesticide store.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### **PYRETHRINS INCLUDING CINERINS**

Long-term exposure limit (8-hour TWA): WEL 1 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit

#### ODOURLESS KEROSENE (CAS: 64742-47-8)

**DNEL** Consumer - Oral; Long term systemic effects: 19 mg/kg

**PNEC** No PNEC available Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for the risk assessment of this complex substance.

### 8.2. Exposure controls

#### **Protective equipment**



#### **Appropriate engineering controls**

Provide adequate general and local exhaust ventilation.

#### **Eye/face protection**

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

#### **Hand protection**

Chemical resistant gloves required for prolonged or repeated contact.

#### **Other skin and body protection**

Wear suitable protective clothing as protection against splashing or contamination.

#### **Hygiene measures**

When using do not eat, drink or smoke. Remove contaminated clothing and wash the skin thoroughly with soap and water after work.

#### **Respiratory protection**

If ventilation is inadequate, suitable respiratory protection must be worn.

## SECTION 9: Physical and Chemical Properties

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

**Appearance** Mobile liquid. Liquid.

**Colour** Gold.

## PYTHRIN 33

<b>Odour</b>	Characteristic.
<b>Odour threshold</b>	No information available.
<b>pH</b>	No information available.
<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	No information available.
<b>Flash point</b>	> 70°C CC (Closed cup).
<b>Evaporation rate</b>	No information available.
<b>Evaporation factor</b>	No information available.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Other flammability</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Vapour density</b>	No information available.
<b>Relative density</b>	0.79 @ @ 20°C
<b>Bulk density</b>	No information available.
<b>Solubility(ies)</b>	Immiscible with water. Soluble in the following materials: Organic solvents.
<b>Partition coefficient</b>	: Log Pow 4.75
<b>Auto-ignition temperature</b>	230°C
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	No information available.
<b>Explosive under the influence of a flame</b>	No information available.
<b>Oxidising properties</b>	Not determined.

### 9.2. Other information

#### SECTION 10: Stability and reactivity

##### 10.1. Reactivity

**Reactivity** Not known.

##### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

##### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Not known. Will not polymerise.

##### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition.

##### 10.5. Incompatible materials

## PYTHRIN 33

**Materials to avoid** Flammable/combustible materials.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 13,157.89

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE dermal (mg/kg)** 2,087.25

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE inhalation (gases ppm)** 118,421.05

**ATE inhalation (vapours mg/l)** 289.47

**ATE inhalation (dusts/mists mg/l)** 39.47

#### Skin corrosion/irritation

**Animal data** Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Based on available data the classification criteria are not met.

#### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

#### Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

#### Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

#### **IARC carcinogenicity**

None of the ingredients are listed or exempt.

#### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Based on available data the classification criteria are not met.

#### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

#### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

## PYTHRIN 33

### Aspiration hazard

**Aspiration hazard** Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways. Pneumonia may be the result if vomited material containing solvents reaches the lungs.

### **General information**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

### **Inhalation**

No specific symptoms known.

### **Ingestion**

Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

### **Skin contact**

No specific symptoms known.

### **Eye contact**

No specific symptoms known.

### **Route of entry**

Ingestion Inhalation Skin and/or eye contact

### **Target organs**

No specific target organs known.

### **Toxicity of ingredients**

## SECTION 12: Ecological Information

### **Ecotoxicity**

The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

### 12.1. Toxicity

#### **Toxicity**

Aquatic Acute 1 - H400 Very toxic to aquatic life. Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.

#### **Acute toxicity - fish**

LC<sub>50</sub>, 96 hours: Rainbow Trout: 0.0052 mg/l. Relates to Pyrethrum. 6.12 mg/l. Relates to Piperonyl Butoxide. mg/l, Algae

#### **Acute toxicity - aquatic invertebrates**

EC<sub>50</sub>, 48 hours: Daphnia: 0.012 mg/l. Relates to Pyrethrin. 0.51 mg/l. Relates to Piperonyl Butoxide. mg/l, Daphnia magna

#### **Acute toxicity - aquatic plants**

IC<sub>50</sub>, 72 hours: Algae: >9.1 mg/l. Relates to Piperonyl Butoxide. mg/l, Fish

### 12.2. Persistence and degradability

#### **Persistence and degradability**

The degradability of the product is not known.

### 12.3. Bioaccumulative potential

#### **Bioaccumulative potential**

No data available on bioaccumulation.

#### **Partition coefficient**

: Log Pow 4.75

### 12.4. Mobility in soil

#### **Mobility**

No data available.

### 12.5. Results of PBT and vPvB assessment

### 12.6. Other adverse effects

#### **Other adverse effects**

None known.

### **Toxicity of ingredients**

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

## PYTHRIN 33

<b>General information</b>	This material and its container must be disposed of in a safe way.
<b>Disposal methods</b>	Dispose of in accordance with applicable regional, national, and local laws and regulations. Dispose of Contaminated packaging as unused product unless fully cleaned. Avoid the spillage or runoff entering drains, sewers or watercourses.
<b>Waste class</b>	Waste disposal key number from EWC is 20 01 19 (Pesticides)

### SECTION 14: Transport information

#### 14.1. UN number

UN No. (ADR/RID)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082

#### 14.2. UN proper shipping name

<b>Proper shipping name (ADR/RID)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PIPERONYL BUTOXIDE, PYRETHRINS INCLUDING CINERINS)
<b>Proper shipping name (IMDG)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PIPERONYL BUTOXIDE, PYRETHRINS INCLUDING CINERINS)
<b>Proper shipping name (ICAO)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PIPERONYL BUTOXIDE, PYRETHRINS INCLUDING CINERINS)
<b>Proper shipping name (ADN)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PIPERONYL BUTOXIDE, PYRETHRINS INCLUDING CINERINS)

#### 14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID label	9
IMDG class	9
ICAO class/division	9

#### Transport labels



#### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



#### 14.6. Special precautions for user

EmS	F-A, S-F
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## PYTHRIN 33

Emergency Action Code       •3Z

Hazard Identification Number   90  
(ADR/RID)

Tunnel restriction code       (E)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

#### SECTION 15: Regulatory information

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

<b>National regulations</b>	Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.
<b>EU legislation</b>	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

##### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

##### Inventories

##### EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

#### SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IATA: International Air Transport Association. ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate. LC <sub>50</sub> : Lethal Concentration to 50 % of a test population. LD <sub>50</sub> : Lethal Dose to 50% of a test population (Median Lethal Dose). EC <sub>50</sub> : 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.
<b>Classification abbreviations and acronyms</b>	Asp. Tox. = Aspiration hazard Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic)

## PYTHRIN 33

<b>General information</b>	The information contained in this Safety Data Sheet is believed to be true and correct, as of the issue date. The accuracy and completeness of this information and any recommendations, or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use for this product.
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	Asp. Tox. 1 - H304: : Calculation method. Aquatic Acute 1 - H400: Aquatic Chronic 1 - H410: : Calculation method.
<b>Revision comments</b>	Risks recalculated to ensure data is up to date
<b>Revision date</b>	13/06/2017
<b>Revision</b>	10
<b>Supersedes date</b>	04/08/2016
<b>Hazard statements in full</b>	H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H332 Harmful if inhaled. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.