# Safety Data Sheet
# PHOBI PYRETHRUM

## Safety Data Sheet dated 20/6/2017, version 1

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

**1.1. Product identifier**

Trade name: **PHOBI PYRETHRUM**

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

Recommended use:

Insecticide

Professional use

Uses advised against:

Do not use for purposes other than those stated in "Recommended uses"

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

Company:

Lodi Group - Parc d'Activités des Quatre Routes

35390 Grand Fougeray - France Tel 0033 (0) 2.99.08.48.59

Competent person responsible for the safety data sheet:

fds@lodi.fr

**1.4. Emergency telephone number**

European Emergency phone number : 112

## SECTION 2: Hazards identification

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

EC regulation criteria 1272/2008 (CLP)

Warning, Aquatic Acute 1, Very toxic to aquatic life.

Warning, Aquatic Chronic 1, Very toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

**2.2. Label elements**

Hazard pictograms:

Warning

Hazard statements:

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None
Special provisions according to Annex XVII of REACH and subsequent amendments:
None

### 2.3. Other hazards

vPvB Substances: None - PBT Substances: None
Other Hazards:
No other hazards
SECTION 2: Hazards identification
This product is a threat to the environment; it is highly toxic for aquatic organisms following acute exposure.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not available

### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

| Qty | Name | Ident. Number | Classification |
|---|---|---|---|
| 20 g/L | Pyrethrins | CAS: 8003-34-7<br>EC: 232-319-8 | 3.1/4/Dermal Acute Tox. 4 H312<br>3.10/1 Asp. Tox. 1 H304<br>3.1/4/Inhal Acute Tox. 4 H332<br>3.1/4/Oral Acute Tox. 4 H302<br>4.1/A1 Aquatic Acute 1 H400<br>4.1/C1 Aquatic Chronic 1 H410 |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:
Wash with plenty of water and soap.
Seek medical attention if ill effect or irritation develops
Thoroughly wash with soap and water
In case of eyes contact:
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Rinse immediately with plenty of water
Seek medical attention if ill effect or irritation develops
In case of Ingestion:
Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.
Rinse mouth
Call a physician
In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.
Assure fresh air breathing
Seek medical advice

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

Ingestion: may cause lung damage if swallowed (chemical pneumonia due to aspiration into the lungs during swallowing)

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

Treatment:
Consult a physician and show the label
Do not induce vomiting

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**

Suitable extinguishing media:
Water.
Carbon dioxide (CO2).
Extinguishing media which must not be used for safety reasons:
None in particular.

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

Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

**5.3. Advice for firefighters**

Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: Accidental release measures

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

Wear personal protection equipment.
Remove persons to safety.
See protective measures under point 7 and 8.

**6.2. Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand

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

Rapidly recover the product. To do so, wear a mask and protective clothing.
Wash with plenty of water.

**6.4. Reference to other sections**

See also section 8 and 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

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

Keep in a dry and cool place.
Store in original container, tightly closed
Keep away from heat and direct sunlight.
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.

### 7.3. Specific end use(s)

Insecticide

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Pyrethrins - CAS: 8003-34-7
EU - TWA(8h): 1 mg/m3
ACGIH - TWA(8h): 5 mg/m3 - Notes: A4 - Liver dam, LRT irr
DNEL Exposure Limit Values
Not available
PNEC Exposure Limit Values
Not available

### 8.2. Exposure controls

Eye protection:
Not needed for normal use. Anyway, operate according good working practices.
Protection for skin:
No special precaution must be adopted for normal use.
Protection for hands:
Avoid contact with skin and hands
Wear gloves
Respiratory protection:
Wear appropriate respiratory apparatus
Thermal Hazards:
None
Environmental exposure controls:
None
Appropriate engineering controls:
None

## SECTION 9: Physical and chemical properties

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

| Properties | Value | Method: | Notes: |
|---|---|---|---|
| Appearance and colour: | Liquid | -- | -- |
| Odour: | Caracteristic | -- | -- |
| Odour threshold: | Not Relevant | -- | -- |
| pH: | Not Relevant | -- | -- |
| Melting point / freezing point: | Not Relevant | -- | -- |
| Initial boiling point and boiling range: | Not Relevant | -- | -- |
| Flash point: | Not available | -- | -- |
| Evaporation rate: | Not available | -- | -- |
| Solid/gas flammability: | Not available | -- | -- |
| Upper/lower flammability or explosive limits: | Not available | -- | -- |
| Vapour pressure: | Not available | -- | -- |
| Vapour density: | Not available | -- | -- |
| Relative density: | 1.004 | -- | -- |
| Solubility in water: | Dispersible in water | -- | -- |
| Solubility in oil: | Not available | -- | -- |
| Partition coefficient (n-octanol/water): | Not available | -- | -- |
| Auto-ignition temperature: | Not available | -- | -- |
| Decomposition temperature: | Not available | -- | -- |
| Viscosity: | Not available | -- | -- |
| Explosive properties: | Not Relevant | -- | -- |
| Oxidizing properties: | Not Relevant | -- | -- |

### 9.2. Other information

| Properties | Value | Method: | Notes: |
|---|---|---|---|
| Miscibility: | Dispersible in water | -- | -- |
| Fat Solubility: | Not available | -- | -- |
| Conductivity: | Not available | -- | -- |
| Substance Groups relevant properties | Not Relevant | -- | -- |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

None

### 10.4. Conditions to avoid

Stable under normal conditions.

**10.5. Incompatible materials**

None in particular.

**10.6. Hazardous decomposition products**

None.

## SECTION 11: Toxicological information

**11.1. Information on toxicological effects**

Toxicological information of the product:

None

Toxicological information of the main substances found in the product:

Pyrethrins - CAS: 8003-34-7

a) acute toxicity:

Test: LD50 - Route: oral - Species: Rat : = 700 mg/Kg

Test: LC50 - Route: Inhalation - Species: Rat : = 3.4 mg/L - Duration: 4h

Test: LD50 - Route: dermal - Species: Rat : > 2000 mg/Kg

b) skin corrosion/irritation:

Test: Skin Irritant - Route: dermal - Species: Rabbit : Non irritating

d) respiratory or skin sensitisation:

Test: Skin Sensitization Non skin sensitizer

e) germ cell mutagenicity:

Test: Mutagenesis - Species: Salmonella Typhimurium : Negative

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

a) acute toxicity;
b) skin corrosion/irritation;
c) serious eye damage/irritation;
d) respiratory or skin sensitisation;
e) germ cell mutagenicity;
f) carcinogenicity;
g) reproductive toxicity;
h) STOT-single exposure;
i) STOT-repeated exposure;
j) aspiration hazard.

## SECTION 12: Ecological information

**12.1. Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Pyrethrins - CAS: 8003-34-7

a) Aquatic acute toxicity:

Endpoint: LC50 Rainbow Trout = 0.0052 mg/L - Duration h: 96

**12.2. Persistence and degradability**

Not available

**12.3. Bioaccumulative potential**

Not available

**12.4. Mobility in soil**
Not available

**12.5. Results of PBT and vPvB assessment**
vPvB Substances: None - PBT Substances: None

**12.6. Other adverse effects**
None

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**
Recover if possible. In so doing, comply with the local and national regulations currently in force.

## SECTION 14: Transport information

**14.1. UN number**

| | |
|---|---|
| ADR-UN number: | 3082 |
| IATA-Un number: | 3082 |
| IMDG-Un number: | 3082 |

**14.2. UN proper shipping name**

| | |
|---|---|
| ADR-Shipping Name: | UN3082 MATIÈRE DANGEREUSE DU POINT DE VUE DE L'ENVIRONNEMENT, LIQUIDE, N.S.A., 9 (9E), III, (E) |

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

| | |
|---|---|
| ADR-Class: | 9 |

**14.4. Packing group**

| | |
|---|---|
| ADR-Packing Group: | III |

**14.5. Environmental hazards**

| | |
|---|---|
| Marine pollutant: | Marine pollutant |
| Most important toxic component: | |

**14.6. Special precautions for user**

| | |
|---|---|
| Rail (RID): | LQ 7 |

**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**
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
Restrictions related to the product:
Restriction 3
Restrictions related to the substances contained:
No restriction.
Where applicable, refer to the following regulatory provisions :
Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
Product belongs to category: E1

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

## SECTION 16: Other information

Full text of phrases referred to in Section 3:
H312 Harmful in contact with skin.
H304 May be fatal if swallowed and enters airways.
H332 Harmful if inhaled.
H302 Harmful if swallowed.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

| Hazard class and hazard category | Code | Description |
|---|---|---|
| Acute Tox. 4 | 3.1/4/Dermal | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 | 3.1/4/Inhal | Acute toxicity (inhalation), Category 4 |
| Acute Tox. 4 | 3.1/4/Oral | Acute toxicity (oral), Category 4 |
| Asp. Tox. 1 | 3.10/1 | Aspiration hazard, Category 1 |
| Aquatic Acute 1 | 4.1/A1 | Acute aquatic hazard, category 1 |
| Aquatic Chronic 1 | 4.1/C1 | Chronic (long term) aquatic hazard, category 1 |

This safety data sheet has been completely updated in compliance to Regulation 2015/830.
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Classification according to Regulation (EC) Nr. 1272/2008 | Classification procedure |
|---|---|
| Aquatic Acute 1, H400 | Calculation method |
| Aquatic Chronic 1, H410 | Calculation method |

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.

| | |
|---|---|
| ADR: | European Agreement concerning the International Carriage of Dangerous Goods by Road. |
| CAS: | Chemical Abstracts Service (division of the American Chemical Society). |
| CLP: | Classification, Labeling, Packaging. |
| CSR: | Chemical safety report |
| DNEL: | Derived No Effect Level. |
| EC50: | |
| EINECS: | European Inventory of Existing Commercial Chemical Substances. |
| GefStoffVO: | Ordinance on Hazardous Substances, Germany. |
| GHS: | Globally Harmonized System of Classification and Labeling of Chemicals. |
| IATA: | International Air Transport Association. |
| IATA-DGR: | Dangerous Goods Regulation by the "International Air Transport Association" (IATA). |
| ICAO: | International Civil Aviation Organization. |
| ICAO-TI: | Technical Instructions by the "International Civil Aviation Organization" (ICAO). |
| IMDG: | International Maritime Code for Dangerous Goods. |
| INCI: | International Nomenclature of Cosmetic Ingredients. |
| KSt: | Explosion coefficient. |
| LC50: | Lethal concentration, for 50 percent of test population. |
| LD50: | Lethal dose, for 50 percent of test population. |
| N.A.: | Not available |
| PNEC: | Predicted No Effect Concentration. |
| RID: | Regulation Concerning the International Transport of Dangerous Goods by Rail. |
| STEL: | Short Term Exposure limit. |
| STOT: | Specific Target Organ Toxicity. |
| TLV: | Threshold Limiting Value. |
| TWA: | Time-weighted average |
| UN: | United Nations |
| WGK: | German Water Hazard Class. |