



Safety Data Sheet dated 23/5/2019, version 1

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

### 1.1. Product identifier

Trade name: **Phobi Dose+**

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

Recommended use:

Insecticide - Biocidal 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, Acute Tox. 4, Harmful if swallowed.**



**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:

H302 Harmful if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

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P264 Wash ... Thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P273 Avoid release to the environment.  
 P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor/... if you feel unwell.  
 P330 Rinse mouth.  
 P391 Collect spillage.  
 P501 Dispose of contents/container in accordance with applicable regulations.

**Special Provisions:**

None

**Contains**

Cyphenothrin

reaction mass of:

[2,4-dioxo-(2-propyn-1-yl)imidazolidin-3-yl]methyl(1R)-cis-chrysanthemate;

[2,4-dioxo-(2-propyn-1-yl)imidazolidin-3-yl]methyl(1R)-trans-chrysanthemate

**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











## 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
150g/L	Cyphenothrin	CAS: 39515-40-7 EC: 254-484-5	 3.1/4/Oral Acute Tox. 4 H302  4.1/A1 Aquatic Acute 1 H400  4.1/C1 Aquatic Chronic 1 H410
100g/L	reaction mass of: [2,4-dioxo-(2-propyn-1-yl)imidazolidin-3-yl]methyl(1R)-cis-chrysanthemate; [2,4-dioxo-(2-propyn-1-yl)imidazolidin-3-yl]methyl(1R)-trans-chrysanthemate	Index number: 613-259-00-5 CAS: 72963-72-5 EC: 428-790-6	 4.1/A1 Aquatic Acute 1 H400  4.1/C1 Aquatic Chronic 1 H410  3.1/4/Oral Acute Tox. 4 H302
1g/L	Chrysanthemum cinerariaefolium, extract from open and mature flowers of Tanacetum cinerariifolium obtained with supercritical CO2	CAS: 89997-63-7 EC: 289-699-3	 3.1/4/Inhal Acute Tox. 4 H332  3.1/4/Oral Acute Tox. 4 H302  4.1/A1 Aquatic Acute 1 H400 M=100.  4.1/C1 Aquatic Chronic 1

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	(Redefined from Pyrethrins and Pyrethroids and Chrysanthemum cinerariaefolium, ext.)		H410 M=100.
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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

Seek medical attention if ill effect or irritation develops

Remove contaminated clothing, wash skin with soap and rinse thoroughly with water.

Do not use solvents or thinners.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Rinse the eye slowly and gently with water for 15-20 minutes

Remove contact lenses if present

Seek medical attention if ill effect or irritation develops

In case of Ingestion:

Give nothing to eat or drink.

Immediately consult a physician and show the label.

In case of ingestion, rinse mouth with water.

Do not induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Seek medical attention if breathing difficulties appear and persist.

In case of inhalation, breath fresh air and have a rest. In case of faintness, consult a physician and show the label.

Allow the victim to rest.

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

Harmful if swallowed

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Treat symptomatically.

In cases of acute distress, contact the 15 (or 112).

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media:

Water.

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Carbon dioxide (CO<sub>2</sub>).

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.

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### 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

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### 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.

Contaminated 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 out of reach of children

Keep away from food and drink and animal feeding stuffs

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

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Instructions as regards storage premises:  
Adequately ventilated premises.

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

None in particular

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No occupational exposure limit available  
DNEL Exposure Limit Values  
Not available  
PNEC Exposure Limit Values  
Not available

### 8.2. Exposure controls

#### Eye protection:

Security glasses according to "Norme NF EN166"

#### Protection for skin:

Protective clothing liquids-tight (type 3) according to NF EN14605

#### Protection for hands:

Wear gloves

Nitrile reusable gloves certified for chemical protection according to standard EN374-3

#### Respiratory protection:

In case of volumes treatments, wear appropriate respiratory apparatus (filtering device)

Full-/Half-/quarter-face masks (DIN EN 136/140).

Mask with filter "A" , brown colour

#### Thermal Hazards:

Keep away from heat and direct sunlight.

#### Environmental exposure controls:

Avoid release in the environment

Avoid release in watercourses and sewers

In cas of accidental release in the environment, contact the Authorities

#### 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:	Green liquid	--	--
Odour:	light	--	--
Odour threshold:	Not available	--	--
pH:	Not available	--	--
Melting point / freezing point:	Not available	--	--
Initial boiling point and boiling range:	Not available	--	--
Flash point:	> 62 ° C	--	--
Evaporation rate:	Not available	--	--
Solid/gas flammability:	Not available	--	--

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Upper/lower flammability or explosive limits:	Not available	--	--
Vapour pressure:	Not available	--	--
Vapour density:	Not available	--	--
Relative density:	1.011	--	--
Solubility in water:	Not available	--	--
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 available	--	--
Oxidizing properties:	Not available	--	--

### 9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	Not available	--	--
Fat Solubility:	Not available	--	--
Conductivity:	Not available	--	--
Substance Groups relevant properties	Not available	--	--

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## 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.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Toxicological information of the product:

Not available

Toxicological information of the main substances found in the product:

Cyphenothrin - CAS: 39515-40-7

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a) acute toxicity:

Test: LD50 - Route: oral - Species: Rat : = 318 mg/Kg - Source: males  
Test: LD50 - Route: oral - Species: Rat : = 319 mg/Kg - Source: females  
Test: LC50 - Route: Inhalation - Species: Rat : > 1.85 mg/L

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.

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## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.  
Cyphenothrin - CAS: 39515-40-7

a) Aquatic acute toxicity:

Endpoint: LC50 Fish = 0.00034 mg/L - Duration h: 96  
Endpoint: LC50 Daphnia = 0.00043 mg/L - Duration h: 48

Chrysanthemum cinerariaefolium, extract from open and mature flowers of Tanacetum cinerariifolium obtained with supercritical CO<sub>2</sub> (Redefined from Pyrethrins and Pyrethroids and Chrysanthemum cinerariaefolium, ext.) - CAS: 89997-63-7

a) Aquatic acute toxicity:

Endpoint: LC50 Rainbow Trout = 5.2 18206.ugL - Duration h: 96  
Endpoint: EC50 Daphnia magna = 12 18206.ugL - Duration h: 48 - Notes: LOEC value of 2.0 µg.l-1 were determined (21 d study)

b) Aquatic chronic toxicity:

Endpoint: NOEC LODI17.08 = 1.9 18206.ugL - Notes: LOEC value of 3.0 µg.l-1 (35d study)  
Endpoint: NOEC Daphnia magna = 0.86 18206.ugL - Notes: LOEC value of 2.0 µg.l-1 were determined

c) Bacteria toxicity:

Endpoint: NOEC Activated sludge = 0.23 18206.ugL - Duration h: 3

### 12.2. Persistence and degradability

Chrysanthemum cinerariaefolium, extract from open and mature flowers of Tanacetum cinerariifolium obtained with supercritical CO<sub>2</sub> (Redefined from Pyrethrins and Pyrethroids and Chrysanthemum cinerariaefolium, ext.) - CAS: 89997-63-7

Biodegradability: Readily biodegradable - Test: Not available - Duration: Not available - %: Not available - Notes: en présence d'UV

### 12.3. Bioaccumulative potential

Not available

### 12.4. Mobility in soil

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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:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (cyphenothrin),9,III,(E)
IATA-Technical name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (cyphenothrin),9,III,(E)
IMDG-Technical name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (cyphenothrin),9,III,(E)

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

ADR-Class:	9
IATA-Class:	9
IMDG-Class:	9

#### 14.4. Packing group

ADR-Packing Group:	III
IATA-Packing group:	III
IMDG-Packing group:	III

#### 14.5. Environmental hazards

Marine pollutant:	Marine pollutant
Most important toxic component:	

#### 14.6. Special precautions for user

IMDG-Technical name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (cyphenothrin),9,III,(E)
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#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not available

### SECTION 15: Regulatory information



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#### 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)  
 Regulation (EU) n. 2016/918 (ATP 8 CLP)  
 Regulation (EU) n. 2016/1179 (ATP 9 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:

H302 Harmful if swallowed.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H332 Harmful if inhaled.

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
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]:

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Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Acute Tox. 4, H302	Calculation method
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.