



## LEPINOX PLUS

### SAFETY DATA SHEET

according to Regulation (EU) No. 453/2010

Issue date: 07.01.2014

Rev. No. 0 of 07.01.2014

CBC (Europe) S.r.l.  
via Majorana 2  
20834 Nova Milanese (MB) - Italy  
☎ (+39) 035-335313  
✉ (+39) 035-335334

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

### 1.1. Product identifier

Trade name: **LEPINOX PLUS**  
Typology: Mixture

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

Bioinsecticide based on *Bacillus thuringiensis*, subspecies *kurstaki*, strain EG 2348.

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

Company name: **CBC (Europe) S.r.l.**  
Address: Via E. Majorana 2 - 20834 Nova Milanese (MB) - Italy  
Telephone: (+39) 035-335313  
Fax: (+39) 035-335334  
E-mail: infobiogard@cbceurope.it

### 1.4. Emergency telephone number

Company number: (+39) 035-335313  
National center for toxicological information: (+39) 02-66101029 Centro Antiveleni Milano

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Product is not classified as dangerous according to Regulation (EU) No. 1272/2008 (CLP) and Directives 1967/548/CEE and 1999/45/CE.

Classification according to Regulation (EU) 1272/2008 (CLP)

Not determined.

Classification according to Directives 1967/548/CEE and 1999/45/CE

Contains *Bacillus thuringiensis*, subspecies *kurstaki*, strain EG 2348. Microorganisms may have the potential to provoke sensitizing reactions.

### 2.2. Label elements

Classification according to Directives 1967/548/CEE and 1999/45/CE

Symbol(s):	//	
Indication(s) of danger:	//	
Risk phrase(s):	//	
Safety phrase(s):	S2	Keep out of reach of children.
	S13	Keep away from food, drink and animal foodstuffs.
	S24	Avoid contact with skin.
	S36/37/39	Wear suitable gloves and eye/face protection.
	S46	If swallowed, seek medical advice immediately and show container or label.

### 2.3. Other hazards

The properties of the mixture do not meet the specific criteria detailed in Annex XIII of Regulation (EC) No. 1907/2006 or do not allow a direct comparison with all the criteria in Annex XIII, but nevertheless indicate that the mixture would not have PBT/vPvB properties so the substance is not considered a PBT/vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

*Bacillus thuringiensis*, subspecies *kurstaki*, strain EG 2348

No. CAS: 68038-71-1

No. EC: -

No. INDEX: -

No. CIPAC: -

N° REACH registration: -

Classification Directive 1967/584/CEE: -

Classification Regulation EC 1272/2008 (CLP): -





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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Eye contact:	In case of contact with eyes, rinse immediately with plenty of clean water.
Skin contact:	In case of contact with skin, rinse immediately with plenty of clean water.
Inhalation:	Remove individual to fresh air.
Ingestion:	Drink 1 or 2 glasses of water and induce vomiting. Contact physician or poison Control Center.

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

For information related to symptoms and effects caused by the product, refer to SECTION 2 and to SECTION 11.

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

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest poison Control Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow any advice given. If you feel unwell, seek medical advice immediately (show the label where possible).

### SECTION 5: Fire fighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: water, CO<sub>2</sub>, dry chemical, foam.  
Unsuitable extinguishing media: none specified.

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

None known.

#### 5.3. Advice for firefighters

None.

### SECTION 6: Accidental release measures

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

Wear suitable protective clothing (coveralls), suitable protective gloves and suitable respiratory protective equipment when handling the product. Wash hands and exposed skin before meals and after work.

#### 6.2. Environmental precautions

Contain spillage. Do not contaminate water with the product or its container. Do not clean application equipment near surface water and avoid contamination via drains from farmyards and roads.

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

Absorb with liquid binding material (sand, diatomaceous earth, acid binders, universal binders, sawdust).

#### 6.4. Reference to other sections

Refer Section 13 for disposal information. No dangerous substances are released.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

When mixing spray formulations, avoid splashing/aerosol generation. When spraying diluted formulation, observe all specified restrictions and wear appropriate protective equipment. Do not breathe spray.

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

Keep in original container, tightly closed, in a safe place. Do not re-use container for any other purpose. Wash out container thoroughly, empty washings into spray tank and dispose of safely. Store the product in a cool, dry, ventilated place. At room temperature (20 °C) product is stable for 3 years; reclose the package if partially used. Avoid direct exposure to sunlight.

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

Spray application onto agricultural or horticultural crops: spray away from surface waters.



## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No occupational exposure limits have been established for the product.

### 8.2. Exposure controls

Use personal protective equipment in accordance with the standards set by European and national regulations. Wear suitable protective clothing (coveralls), suitable protective gloves, face protection (faceshield) and suitable respiratory protective equipment\* when handling the product or applying the product. \*Disposable filtering facepiece respirator to at least EN149 FFP3 or equivalent.

Engineering controls:	Not applicable (mix in the open or a well-ventilated work area).
Eye/face protection	Use goggles. Avoid contact with eyes.
Skin/hand protection	Use gloves. Avoid contact with open wounds.
Respiratory protection:	Use of dust mask recommended.
Environmental exposure controls	Keep away from foodstuffs, beverages and feed. Do not eat or drink while working. Wash thoroughly after exposure. Remove contaminated clothing and wash before reuse.

## SECTION 9: Physical and chemical properties

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

a) Appearance:	Powder, brownish.
b) Odour:	Characteristic.
c) Odour threshold:	Not available.
d) pH:	6.24 (CIPAC MT 75.3)
e) Melting point/freezing point:	Not available.
f) Initial boiling point and boiling range:	Not applicable.
g) Flash point:	Not determined.
h) Evaporation rate:	Not available.
i) Flammability (solid, gas):	> 400 °C.
j) Upper/lower flammability or explosive limits:	Not available.
k) Vapour pressure:	Not available.
l) Vapour density:	Not available.
m) Relative density:	0.579 g/ml (tap density; CIPAC MT 186).
n) Solubility(ies):	Water: soluble.
o) Partition coefficient: n-octanol/water:	Not available.
p) Auto-ignition temperature:	> 400 °C.
q) Decomposition temperature:	Not available.
r) Viscosity:	Not applicable.
s) Explosive properties:	No explosive properties.
t) Oxidising properties:	No oxidising properties.

### 9.2. Other information

Not available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Not considered chemically reactive.

### 10.2. Chemical stability

Stable under normal ambient conditions and under the anticipated conditions of use.

### 10.3. Possibility of hazardous reactions

No particular risks of hazardous reactions under normal conditions.

### 10.4. Conditions to avoid

Extreme heat or cold temperature. Keep out from freezing.

### 10.5. Incompatible materials

None known.

### 10.6 Hazardous decomposition products

None known.



## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### a) Acute toxicity

<i>Bacillus thuringiensis</i>	oral	No adverse effect until $4.7 \times 10^{11}$ CFU/kg.
	dermal	No adverse effect until $4.7 \times 10^{11}$ CFU/kg.
	inhalation	No adverse effect until $2.6 \times 10^7$ CFU/kg.

No product classification required.

#### b) Irritation

*Bacillus thuringiensis* Not irritating for eye/skin.

No product classification required.

#### c) Corrosivity

*Bacillus thuringiensis* No corrosive effect known.

No product classification required.

#### d) Sensitisation

*Bacillus thuringiensis* Microorganisms may have the potential to provoke sensitizing reactions.

Product may cause an allergic skin reaction.

#### e) Repeated dose toxicity

*Bacillus thuringiensis* No toxic effects at repeated dose known.

No product classification required.

#### f) Carcinogenicity

*Bacillus thuringiensis* No carcinogenic effect known.

No product classification required.

#### g) Mutagenicity

*Bacillus thuringiensis* No mutagenic effect known.

No product classification required.

#### h) Toxicity for reproduction

*Bacillus thuringiensis* No toxic effect for reproduction known.

No product classification required.

## SECTION 12: Ecological information

### 12.1. Ecological information

*Bacillus thuringiensis* No toxic effects to aquatic organisms known

No product classification required.

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

No information available.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

No PBT and vPvB assessment is carried out for the product.

### 12.6. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product which is not used should be disposed of in accordance with all local regulations for the treatment of not toxic products. The product can be disposed of in a waste facility or in a landfill. If local and state regulations permit, the unused product can be incinerated. Empty containers can have residues and are subject to proper waste disposal. After triple rinse can be offered for recycling. Do not reuse as a container. Do not contaminate water with the product or its container. Do



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not clean application equipment near surface water and avoid contamination via drains from farmyards and roads.

### SECTION 14: Transport information

Product is not classified as hazardous in accordance with the provisions of the current legislation governing the transport of dangerous goods by road (ADR), by Rail (RID), by sea (IMDG Code) and by air (IATA).

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

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

Not applicable.

#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

Not applicable.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

### SECTION 15: Regulatory information

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

No substance-specific regulations apply.

Labelling according to EU guidelines: the product has been classified and labelled in accordance with EU Directives/Ordinances on Hazardous Materials.

Code letter and designation of product: not classified.

UK registration: MAPP No. 16269 issue date 19/09/2013.

#### 15.2. Chemical safety assessment

A chemical safety assessment has been not carried out for the product.

### SECTION 16: Other information

Full text of risk phrases (R) phrases mentioned in SECTION 2 and SECTION 3:

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Key literature references and sources for data:

- Directive 1967/548/CEE (and subsequent amendments and modification)
- Directive 1999/45/CE (and subsequent amendments and modification)
- Regulation EC No. 1272/2008 (CLP) (and subsequent amendments and modification)
- Regulation EC No. 1907/2006 (REACH) (and subsequent amendments and modification)

#### Remarks:

The information in this security information sheet corresponds to the current situation of our knowledge, but we do not assume any responsibility for it. The users must consider this information only as a complement to other information obtained by themselves and must carry out independent tests of suitability and completeness of the information in order to ensure the proper use and the elimination of these materials, as well as the security and health of employees, customers, and protection of the environment.

