

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

1.1. Product identifier

Trade name:	CORDALENE
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 Antiveneni 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).

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

Not classified.

2.2. Label elements

Labelling according to Regulation (EC) 1272/2008 (CLP)

Hazard pictogram(s):	//	
Signal word(s)	//	
Hazard statement(s):	//	
Precautionary statement(s):	P102+P405	Keep out of reach of children.
	P270	Do not eat, drink or smoke when using this product.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
	P331	Do NOT induce vomiting.
Supplementary statement(s)	EUH401	To avoid risks to human health and the environment, comply with the instructions for use.
	SP1	Do not contaminate water with the product or its container.
	EUH208	Contains <i>Bacillus thuringiensis</i> , subspecies <i>kurstaki</i> , strain EG 2348. Microorganisms may have the potential to provoke sensitizing reactions.

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

3.1. Substances

Not relevant.

3.2. Mixtures

Bacillus thuringiensis, subspecies *kurstaki*, strain EG 2348

No. CAS:	68038-71-1
No. EC:	-
No. INDEX:	-
No. CIPAC	955
N° REACH registration:	Not relevant.

Classification Directive 1967/584/CEE:	Not classified.
Classification Regulation EC 1272/2008 (CLP):	Not classified.
SECTION 4: First aid measures	
4.1. Description of first aid measures	
Eye contact:	Immediately flush with water for at least five minutes. Get medical attention if irritation persists.
Skin contact:	In case of contact with skin, wash off immediately with soap and 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.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media: water, CO ₂ , 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.	
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.	
7.2. Conditions for safe storage, including any incompatibilities	
Protect from direct sunlight. Store in a cool, dry location away from food. Stable for 2 years at room temperature.	
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.	
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:	Liquid, green-brown (RAL 8000).
b) Odour:	Characteristic.
c) Odour threshold:	Not available.
d) pH:	5-6 (CIPAC MT 75.3).
e) Melting point/freezing point:	Not available.
f) Initial boiling point and boiling range:	Not available.
g) Flash point:	> 180 °C (EEC A.9).
h) Evaporation rate:	Not available.
i) Flammability (solid, gas):	Not available.
j) Upper/lower flammability or explosive limits:	Not available.
k) Vapour pressure:	Not available.
l) Vapour density:	Not available.
m) Relative density:	0.94 - 0.97 (OECD 109).
n) Solubility(ies):	Water: soluble.
o) Partition coefficient: n-octanol/water:	Not available.
p) Auto-ignition temperature:	314 °C (EEC A.15).
q) Decomposition temperature:	Not available.
r) Viscosity:	200-500 cPs (at 20 °C).
s) Explosive properties:	No explosive properties (EEC A.14).
t) Oxidising properties:	No oxidising properties (EEC A.21).

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 4.7×10^{11} CFU/kg.
	dermal	No adverse effect until 4.7×10^{11} CFU/kg.
	inhalation	No adverse effect until 2.6×10^7 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.

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.

Mixture evaluated according to Directive 91/414/EEC and Regulation (EC) 1107/2009.

Greek registration: No. 14061 dated 11/04/2004.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Full text of hazard phrases (H) mentioned in SECTION 2 and SECTION 3:

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Key literature references and sources for data:

- Regulation EC No. 1272/2008 (CLP) (and subsequent amendments and modification)
- Regulation EC No. 1907/2006 (REACH) (and subsequent amendments and modification)

Remarks:

The Safety Data Sheet has been revised on 07/10/2015 in order to comply with Regulation (EC) No. 1272/2008 (CLP). The section 2 has been modified.

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.