



## PONCHO VOTIVO FS610 1X200L DRM UA

Version 1 / EU  
1020000270151/9  
Revision Date: 26.08.2014  
Print Date: 24.10.2017

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Trade name PONCHO VOTIVO FS610 1X200L DRM UA  
Product code (UVP) 81006334, 81735050

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

Use Seed treatment  
Insecticide

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

Supplier Bayer AG  
Kaiser-Wilhelm-Allee 1  
51373 Leverkusen  
Germany

Telefax +49(0)2173-38-7394

Responsible Department Product Safety and Specification Management  
+49(0)2173-38-3409 (during business hours only)  
Email: BCS-SDS@bayer.com

#### 1.4 Emergency telephone no.

Emergency telephone no. ZCUST-X01.00000178  
+1 (760) 476-3964 (Company 3E for Bayer AG, Crop Science Division)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Acute toxicity: Category 4  
H302 Harmful if swallowed.

Chronic aquatic toxicity: Category 1  
H400 Very toxic to aquatic life.

Acute aquatic toxicity: Category 1  
H410 Very toxic to aquatic life with long lasting effects.

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xn Harmful, R22  
N Dangerous for the environment, R50/53

#### 2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.

#### Hazardous components which must be listed on the label:

- Clothianidin
- Bacillus firmus (Strain I-1582)

**PONCHO VOTIVO FS610 1X200L DRM UA**Version 1 / EU  
1020000270152/9  
Revision Date: 26.08.2014  
Print Date: 24.10.2017**Signal word:** Warning**Hazard statements**

H302 Harmful if swallowed.  
 H410 Very toxic to aquatic life with long lasting effects.  
 EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P501 Dispose of contents/container in accordance with local regulation.

**2.3 Other hazards**

No other hazards known.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Chemical nature**

Flowable concentrate for seed treatment (FS)

**Hazardous components**

R-phrase(s) according to EC directive 67/548/EEC  
 Hazard statements according to Regulation (EC) No. 1907/2006

Name	CAS-No. / EC-No.	Classification		Conc. [%]
		EC Directive 67/548/EEC	Regulation (EC) No 1272/2008	
Clothianidin	210880-92-5 606-701-3	Xn; R22 N; R50/53	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	40,70
Bacillus firmus (Strain I-1582)		Not classified	Not classified	8,00
Glycerine	56-81-5 200-289-5	Not classified	Not classified	> 1,00
Fatty alcohol ethoxylate	68131-39-5 500-195-7	Xn; R22 Xi; R41 N; R50	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Acute 1, H400	> 0,10

**Further information**

Clothianidin	210880-92-5	M-Factor: 10 (acute), 10 (chronic)
--------------	-------------	------------------------------------

Substances which do not meet the classification criteria according to Directive 67/548/EEC as amended:

Glycerine (56-81-5): Substance with an EU indicative Occupational Exposure Limit value (OEL) below the threshold value for reporting.

For the full text of the R-phrases/ Hazard statements mentioned in this Section, see Section 16.



## PONCHO VOTIVO FS610 1X200L DRM UA

Version 1 / EU  
102000027015

3/9  
Revision Date: 26.08.2014  
Print Date: 24.10.2017

---

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

<b>General advice</b>	Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.
<b>Inhalation</b>	Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.
<b>Skin contact</b>	Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.

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

**Symptoms** To date no symptoms are known.

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

**Treatment** Treat symptomatically. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. There is no specific antidote.

---

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

**Suitable** Water spray, Foam, Carbon dioxide (CO<sub>2</sub>), Dry chemical  
**Unsuitable** None known.

**5.2 Special hazards arising from the substance or mixture** Dangerous gases are evolved in the event of a fire.

#### 5.3 Advice for firefighters

**Special protective equipment for fire-fighters** In the event of fire, wear self-contained breathing apparatus.

**Further information** Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.



## PONCHO VOTIVO FS610 1X200L DRM UA

Version 1 / EU  
102000027015

4/9  
Revision Date: 26.08.2014  
Print Date: 24.10.2017

---

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

**Precautions** Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

**6.2 Environmental precautions** Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not apply when weather conditions favor runoff or drift. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Apply this product as specified on the label.

#### 6.3 Methods and materials for containment and cleaning up

**Methods for cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional advice** Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

**6.4 Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

---

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

**Advice on safe handling** Handle and open container in a manner as to prevent spillage. Ensure adequate ventilation. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

**Hygiene measures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.  
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

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

**PONCHO VOTIVO FS610 1X200L DRM UA**Version 1 / EU  
1020000270155/9  
Revision Date: 26.08.2014  
Print Date: 24.10.2017

<b>Requirements for storage areas and containers</b>	Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Protect from freezing.
<b>7.3 Specific end uses</b>	Refer to the label and/or leaflet.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Clothianidin	210880-92-5	2,8 mg/m <sup>3</sup> (TWA)		OES BCS*

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

**8.2 Exposure controls****Personal protective equipment**

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

<b>Respiratory protection</b>	Not required; except in case of aerosol formation.
<b>Hand protection</b>	Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness of 0,4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.
<b>Eye protection</b>	Tightly fitting safety goggles
<b>Skin and body protection</b>	Wear standard coveralls and Category 3 Type 6 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

<b>Form</b>	Liquid
<b>Colour</b>	beige
<b>Odour</b>	characteristic
<b>Odour Threshold</b>	no data available
<b>pH</b>	5,0 - 8,0 at 100 % (23 °C)
<b>Flash point</b>	> 99 °C Material heated to 100 °C – no flash point in the liquid state.
<b>Minimum ignition energy</b>	not applicable
<b>Upper explosion limit</b>	no data available
<b>Lower explosion limit</b>	no data available

**PONCHO VOTIVO FS610 1X200L DRM UA**Version 1 / EU  
1020000270156/9  
Revision Date: 26.08.2014  
Print Date: 24.10.2017

---

<b>Vapour pressure</b>	no data available
<b>Relative vapour density</b>	no data available
<b>Density</b>	1,28 g/cm <sup>3</sup> at 20 °C
<b>Water solubility</b>	dispersible
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	Clothianidin: log Pow: 0,9
<b>Viscosity, dynamic</b>	590 - 900 mPa.s at 25 °C 280 - 480 mPa.s at 20 °C Velocity gradient 20 /s 170 - 320 mPa.s at 20 °C Velocity gradient 100 /s
<b>Explosivity</b>	not applicable
<b>9.2 Other information</b>	Further safety related physical-chemical data are not known.

---

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity****Thermal decomposition** not applicable**10.2 Chemical stability** Stable under recommended storage conditions.**10.3 Possibility of hazardous reactions** No hazardous reactions when stored and handled according to prescribed instructions.**10.4 Conditions to avoid** Extremes of temperature and direct sunlight.**10.5 Incompatible materials** Store only in the original container.**10.6 Hazardous decomposition products** No decomposition products expected under normal conditions of use.

---

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute oral toxicity** LD50 (rat) 2.000 mg/kg**Acute inhalation toxicity** LC50 (rat) > 2,03 mg/l  
Exposure time: 4 h  
Determined in the form of a respirable aerosol.  
During intended and foreseen applications, no respirable aerosol is formed.**Acute dermal toxicity** LD50 (rat) > 5.000 mg/kg**Skin irritation** Slight irritant effect - does not require labelling. (rabbit)**Eye irritation** Slight irritant effect - does not require labelling. (rabbit)**Sensitisation** Non-sensitizing. (mouse)  
OECD Test Guideline 429, local lymph node assay (LLNA)**Assessment repeated dose toxicity**

**PONCHO VOTIVO FS610 1X200L DRM UA**Version 1 / EU  
1020000270157/9  
Revision Date: 26.08.2014  
Print Date: 24.10.2017

Clothianidin did not cause specific target organ toxicity in experimental animal studies.  
Bacillus firmus did not cause specific target organ toxicity in experimental animal studies.

**Assessment Mutagenicity**

Clothianidin was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.  
Bacillus firmus: Test not required for microorganisms.

**Assessment Carcinogenicity**

Clothianidin was not carcinogenic in lifetime feeding studies in rats and mice.  
Bacillus firmus: Test not required for microorganisms.

**Assessment toxicity to reproduction**

Clothianidin caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Clothianidin is related to parental toxicity.  
Bacillus firmus: Test not required for microorganisms.

**Assessment developmental toxicity**

Clothianidin did not cause developmental toxicity in rats.  
Clothianidin caused developmental toxicity in rabbits only at dose levels toxic to the dams. The developmental effects seen with Clothianidin are related to maternal toxicity.  
Bacillus firmus: Test not required for microorganisms.

**Further information**

Only acute toxicity studies have been performed on the formulated product.  
The non-acute information pertains to the active ingredient(s).

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

<b>Toxicity to fish</b>	LC50 (Rainbow trout ( <i>Oncorhynchus mykiss</i> )) > 104,2 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient clothianidin.
<b>Toxicity to aquatic invertebrates</b>	EC50 (Water flea ( <i>Daphnia magna</i> )) > 119 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient clothianidin.
	EC50 ( <i>Chironomus riparius</i> (non-biting midge)) 0,00106 mg/l Exposure time: 28 d The value mentioned relates to the active ingredient clothianidin.
<b>Toxicity to aquatic plants</b>	IC50 ( <i>Pseudokirchneriella subcapitata</i> ) > 120 mg/l Growth rate; Exposure time: 72 h The value mentioned relates to the active ingredient clothianidin.

**12.2 Persistence and degradability**

<b>Biodegradability</b>	Clothianidin: not rapidly biodegradable
<b>Koc</b>	Clothianidin: Koc: 84 - 345

**12.3 Bioaccumulative potential**

<b>Bioaccumulation</b>	Clothianidin:
------------------------	---------------

**PONCHO VOTIVO FS610 1X200L DRM UA**Version 1 / EU  
1020000270158/9  
Revision Date: 26.08.2014  
Print Date: 24.10.2017

Does not bioaccumulate.

**12.4 Mobility in soil****Mobility in soil** Clothianidin: Moderately mobile in soils**12.5 Results of PBT and vPvB assessment****PBT and vPvB assessment** Clothianidin: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).**12.6 Other adverse effects****Additional ecological information** No other effects to be mentioned.**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Product** Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

Dispose in accordance with all local, state/provincial and federal regulations.

**Contaminated packaging**

Triple rinse containers.

Puncture container to avoid re-use.

Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning.

If burned, stay out of smoke.

Follow advice on product label and/or leaflet.

**SECTION 14: TRANSPORT INFORMATION****ADR/RID/ADN**

14.1 UN number	<b>3082</b>
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CLOTHIANIDIN SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environm. Hazardous Mark	YES
Hazard no.	90
Tunnel Code	E

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

**IMDG**

14.1 UN number	<b>3082</b>
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CLOTHIANIDIN SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Marine pollutant	YES



**PONCHO VOTIVO FS610 1X200L DRM UA**Version 1 / EU  
1020000270159/9  
Revision Date: 26.08.2014  
Print Date: 24.10.2017**IATA**

14.1 UN number	<b>3082</b>
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CLOTHIANIDIN SOLUTION )
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environm. Hazardous Mark	YES

**14.6 Special precautions for user**

See sections 6 to 8 of this Safety Data Sheet.

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

No transport in bulk according to the IBC Code.

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Further information**

WHO-classification: II (Moderately hazardous)

**15.2 Chemical Safety Assessment**

A chemical safety assessment is not required.

**SECTION 16: OTHER INFORMATION****Text of R-phrases mentioned in Section 3**

R22	Harmful if swallowed.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Text of the hazard statements mentioned in Section 3**

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 453/2010 amending Regulation (EU) No 1907/2006 (and any subsequent amendments). This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

**Reason for Revision:** Safety Data Sheet according to Regulation (EU) No. 453/2010.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.
------------------------------------------------------------------------------------------------------------