SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006



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### **CONNECT SC112,5 4X5L BOT UA**

Version 2 / EU

102000007862

Revision Date: 15.07.2014
Print Date: 14.11.2017

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

1.1 Product identifier

Trade name CONNECT SC112,5 4X5L BOT UA

Product code (UVP) 05640059

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

**Use** 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 aquatic toxicity: Category 1

H400 Very toxic to aquatic life.

Chronic 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

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:

- Beta-Cyfluthrin
- Imidacloprid



Signal word: Warning

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### **Hazard statements**

H410 Very toxic to aquatic life with long lasting effects.

EUH208 Contains 5-chloro-2-methyl-isothiazol-3-one/2-methyl-isothiazol-3-one, 1,2-

Benzisothiazolin-3-one. May produce an allergic reaction.

EUH401 To avoid risks to human health and the environment, comply with the instructions for

use.

### **Precautionary statements**

P501 Dispose of contents/container in accordance with local regulation.

### 2.3 Other hazards

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.2 Mixtures

### **Chemical nature**

Suspension concentrate (=flowable concentrate)(SC) Imidacloprid 100 g/l, Beta-cyfluthrin 12,5 g/l

### **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	
Beta-Cyfluthrin	68359-37-5 269-855-7	T+; R26/28 N; R50/53	Acute Tox. 2, H300, H330 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	1,16
Imidacloprid	138261-41-3	Xn; R22 N; R50/53	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	9,30
Mixture of 5-Chlor- 2-methyl-3(2H)- isothiazolon and 2- Methyl-2H- isothiazol-3-on	55965-84-9 611-341-5	T; R23/24/25 C; R34 R43 N; R50/53	Acute Tox. 3, H331 Acute Tox. 3, H311 Acute Tox. 3, H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	< 0,0002
1,2-Benzisothiazol- 3(2H)-one	2634-33-5 220-120-9	Xn; R22 Xi; R38, R41 R43 N; R50	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	>= 0,005 - < 0,05
Silica, amorphe	7631-86-9 231-545-4	Not classified	Not classified	> 1,00
Glycerine	56-81-5 200-289-5	Not classified	Not classified	> 1,00

#### **Further information**

Beta-Cyfluthrin 68359-37-5	M-Factor: 10.000 (acute)
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Imidacloprid 138261-41-3 M-Factor: 10 (acute)

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

Silica, amorphe (7631-86-9): Substance with an EU indicative Occupational Exposure Limit value (OEL) below the threshold value for reporting.

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.

### **SECTION 4: FIRST AID MEASURES**

### 4.1 Description of first aid measures

**General advice** Move out of dangerous area. Place and transport victim in stable

position (lying sideways). Remove contaminated clothing immediately

and dispose of safely.

**Inhalation** Move the victim to fresh air and keep at rest. Call a physician or poison

control center immediately.

**Skin contact** Immediately wash with plenty of soap and water for at least 15

minutes. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. In case of skin irritation, application of oils or lotions containing vitamin E may

be considered. If symptoms persist, call a physician.

**Eye contact** 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. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. Apply soothing eye drops, if needed anaesthetic eye drops. Get medical attention if irritation develops and persists.

**Ingestion** Rinse out mouth and give water in small sips to drink. Do NOT induce

vomiting. Risk of product entering the lungs on vomiting after ingestion.

Call a physician or poison control center immediately.

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

**Symptoms** Local:, Skin and eye paraesthesia which may be severe, Usually

transient with resolution within 24 hours, Skin, eye and mucous

membrane irritation, Cough, Sneezing

Systemic:, Discomfort in the chest, Tachycardia, Hypotension, Nausea,

Abdominal pain, Diarrhoea, Vomiting, Dizziness, Blurred vision, Headache, Anorexia, Somnolence, Coma, Convulsions, Tremors, Prostration, Airway hyperreaction, Pulmonary oedema, Palpitation,

Muscular fasciculation, Apathy

4.3 Indication of any immediate medical attention and special treatment needed

**Risks** This product contains a pyrethroid. Pyrethroid poisoning should not be

confused with carbamate or organophosphate poisoning.

**Treatment** Local treatment: Initial treatment: symptomatic.

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> Systemic treatment: Initial treatment: symptomatic. Monitor: respiratory and cardiac functions. 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. Keep respiratory tract clear. Oxygen or artificial respiration if needed. In case of convulsions, a

> benzodiazepine (e.g. diazepam) should be given according to standard

regimens. If not effective, phenobarbital may be used.

Contraindication: atropine. Contraindication: derivatives of adrenaline. There is no specific antidote. Recovery is spontaneous and without

sequelae.

### **SECTION 5: FIREFIGHTING MEASURES**

5.1 Extinguishing media

Suitable Water spray, Carbon dioxide (CO2), Foam, Sand

5.2 Special hazards arising from the substance or

mixture

In the event of fire the following may be released:, Hydrogen chloride (HCI), Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment for fire-fighters In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

**Further information** 

Contain the spread of the fire-fighting media. Do not allow run-off from

fire fighting to enter drains or water courses.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1 Personal precautions, protective equipment and emergency procedures

**Precautions** Avoid contact with spilled product or contaminated surfaces. Use

personal protective equipment.

6.2 Environmental precautions

Do not allow to get into surface water, drains and ground water.

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). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly,

observing environmental regulations.

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 Use only in area provided with appropriate exhaust ventilation.

**Hygiene measures** Avoid contact with skin, eyes and clothing. Keep working clothes

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separately. Wash hands immediately after work, if necessary take a shower. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).

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

Requirements for storage areas and containers

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized

persons only. Keep away from direct sunlight.

Advice on common storage Keep away from food, drink and animal feedingstuffs.

Suitable materials HDPE (high density polyethylene)7.3 Specific end uses Refer to the label and/or leaflet.

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Beta-Cyfluthrin	68359-37-5	0,01 mg/m3 (TWA)		OES BCS*
Imidacloprid	138261-41-3	0,7 mg/m3 (TWA)		OES BCS*

<sup>\*</sup>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.

Respiratory protection Respiratory protection is not required under anticipated

circumstances of exposure.

Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's

instructions regarding wearing and maintenance.

Hand protection 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.

**Eye protection** Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

**Skin and body protection** Wear standard coveralls and Category 3 Type 6 suit.

If there is a risk of significant exposure, consider a higher protective

type 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.

If chemical protection suit is splashed, sprayed or significantly

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> contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

**Form** suspension

Colour white to light beige Odour weak, characteristic

4,0 - 5,0 at 100 % (23 °C) pН

> 100 °C Flash point

ca. 1,08 g/cm3 at 20 °C Density

Water solubility miscible

Partition coefficient: n-

octanol/water

beta-Cyfluthrin: log Pow: 6,18 at 22 °C

Imidacloprid: log Pow: 0,57

9.2 Other information Further safety related physical-chemical data are not known.

### **SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity

Thermal decomposition Stable under normal conditions.

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of No hazardous reactions when stored and handled according to hazardous reactions prescribed instructions.

10.4 Conditions to avoid

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) > 2.500 mg/kgAcute inhalation toxicity LC50 (rat) > 1.2 mg/lExposure time: 4 h

Determined in the form of a respirable aerosol.

Extremes of temperature and direct sunlight.

Highest attainable concentration.

**Acute dermal toxicity** LD50 (rat) > 4.000 mg/kgSkin irritation No skin irritation (rabbit) Eye irritation No eye irritation (rabbit)

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**Sensitisation** Non-sensitizing. (quinea pig)

OECD Test Guideline 406, Buehler test

### Assessment repeated dose toxicity

The toxic effects of beta-Cyfluthrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.

Imidacloprid did not cause specific target organ toxicity in experimental animal studies.

### **Assessment Mutagenicity**

beta-Cyfluthrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. Imidacloprid was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

### **Assessment Carcinogenicity**

beta-Cyfluthrin was not carcinogenic in lifetime feeding studies in rats and mice. Imidacloprid was not carcinogenic in lifetime feeding studies in rats and mice.

### Assessment toxicity to reproduction

beta-Cyfluthrin 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 beta-Cyfluthrin is related to parental toxicity.

Imidacloprid 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 Imidacloprid is related to parental toxicity.

### Assessment developmental toxicity

beta-Cyfluthrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with beta-Cyfluthrin are related to maternal toxicity.

Imidacloprid caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Imidacloprid are related to maternal toxicity.

### **SECTION 12: ECOLOGICAL INFORMATION**

12.1 Toxicity

Toxicity to fish LC50 (Lepomis macrochirus (Bluegill sunfish)) 0,2 mg/l

Exposure time: 96 h

**Toxicity to aquatic** EC50 (Water flea (Daphnia magna)) 0,076 mg/l

**invertebrates** Exposure time: 48 h

**Toxicity to aquatic plants** EC50 (Pseudokirchneriella subcapitata) > 100 mg/l

Growth rate; Exposure time: 72 h

12.2 Persistence and degradability

**Biodegradability** beta-Cyfluthrin:

not rapidly biodegradable

Imidacloprid:

not rapidly biodegradable

**Koc** beta-Cyfluthrin: Koc: 508 - 3179

Imidacloprid: Koc: 225

12.3 Bioaccumulative potential

**Bioaccumulation** beta-Cyfluthrin: Bioconcentration factor (BCF) 506

Does not bioaccumulate.

Imidacloprid:

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Does not bioaccumulate.

12.4 Mobility in soil

**Mobility in soil** beta-Cyfluthrin: Immobile in soil

Imidacloprid: Moderately mobile in soils

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment beta-Cyfluthrin: 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).

Imidacloprid: 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** In accordance with current regulations and, if necessary, after

consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Contaminated packaging 
Not completely emptied packagings should be disposed of as

hazardous waste.

Waste key for the unused

product

020108 agrochemical waste containing dangerous substances

### **SECTION 14: TRANSPORT INFORMATION**

ADR/RID/ADN

14.1 UN number **3082** 

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BETA-CYFLUTHRIN SOLUTION)

14.3 Transport hazard class(es) 9
14.4 Packing group III

14.5 Environm. Hazardous Mark
Hazard no.
Tunnel Code

YES

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 3082

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BETA-CYFLUTHRIN SOLUTION)

14.3 Transport hazard class(es)
14.4 Packing group
14.5 Marine pollutant
YES

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**IATA** 

14.1 UN number 3082

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BETA-CYFLUTHRIN SOLUTION)

14.3 Transport hazard class(es) 9 14.4 Packing group Ш 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: III (Slightly 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.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R26/28 Very toxic by inhalation and if swallowed.

R34 Causes burns. R38 Irritating to skin.

Risk of serious damage to eyes. R41

R43 May cause sensitisation by skin contact.

Very toxic to aquatic organisms. R50

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic R50/53

environment.

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

H300	Fatal if swallowed.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skir
H314	Causes severe skin burr

ns and eye damage.

Causes skin irritation. H315

May cause an allergic skin reaction. H317 H318 Causes serious eye damage.

H330 Fatal if inhaled. H331 Toxic if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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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.