

## OPTIGARD ANT GEL BAIT

Version 1 - This version replaces all previous versions.

Revision Date 02.07.2014

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

#### 1.1 Product identifier

**Product name** : OPTIGARD ANT GEL BAIT**Design code** : A15236C

#### 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

**Company** : Syngenta Crop Protection AG  
Postfach  
CH-4002 Basel  
Switzerland**Telephone** : +41 61 323 11 11**Telefax** : +41 61 323 12 12**E-mail address** : sds.ch@syngenta.com

#### 1.4 Emergency telephone number

**Emergency tele-  
phone number** : +44 1484 538444

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

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

**Not classified according to EU legislation**

#### 2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008

**Remarks** : Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

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Hazardous components which must be listed on the label:

Labelling: EU Directives 67/548/EEC or 1999/45/EC

The product does not need to be labelled in accordance with EC directives or respective national laws.

### 2.3 Other hazards

None known.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration
thiamethoxam	153719-23-4	F, Xn, N R11 R22 R50/53	Flam. Sol.1; H228 Acute Tox.4; H302 Aquatic Acute1; H400 Aquatic Chronic1; H410	0.01 % W/W

Substances for which there are Community workplace exposure limits.

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

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

- General advice** : Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control center or physician, or going for treatment.
- Inhalation** : Move the victim to fresh air.  
If breathing is irregular or stopped, administer artificial respiration.  
Keep patient warm and at rest.  
Call a physician or poison control centre immediately.
- Skin contact** : Take off all contaminated clothing immediately.  
Wash off immediately with plenty of water.  
If skin irritation persists, call a physician.  
Wash contaminated clothing before re-use.
- Eye contact** : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Remove contact lenses.  
Immediate medical attention is required.

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**Ingestion** : If swallowed, seek medical advice immediately and show this container or label.  
Do NOT induce vomiting.

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

**Symptoms** : No information available.

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

**Medical advice** : There is no specific antidote available.  
Treat symptomatically.

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## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Extinguishing media - small fires  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Extinguishing media - large fires  
Alcohol-resistant foam  
or  
Water spray

Do not use a solid water stream as it may scatter and spread fire.

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

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).  
Exposure to decomposition products may be a hazard to health.

### 5.3 Advice for firefighters

Wear full protective clothing and self-contained breathing apparatus.

Do not allow run-off from fire fighting to enter drains or water courses.  
Cool closed containers exposed to fire with water spray.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Refer to protective measures listed in sections 7 and 8.  
Avoid dust formation.

### 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

Do not create a powder cloud by using a brush or compressed air.  
Clean contaminated surface thoroughly.

If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

Refer to disposal considerations listed in section 13.

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## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

No special protective measures against fire required.

Avoid contact with skin and eyes.

When using do not eat, drink or smoke.

For personal protection see section 8.

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

No special storage conditions required.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Keep out of the reach of children.

Keep away from food, drink and animal feedingstuffs.

### 7.3 Specific end use(s)

Registered Crop Protection products: For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Components	Exposure limit(s)	Type of exposure limit	Source
thiamethoxam	3 mg/m <sup>3</sup>	8 h TWA	SYNGENTA

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.

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### 8.2 Exposure controls

- Engineering measures** : Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.  
The extent of these protection measures depends on the actual risks in use.  
If airborne dust is generated, use local exhaust ventilation controls.  
Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.  
Where necessary, seek additional occupational hygiene advice.
- Protective measures** : The use of technical measures should always have priority over the use of personal protective equipment.  
When selecting personal protective equipment, seek appropriate professional advice.  
Personal protective equipment should be certified to appropriate standards.
- Respiratory protection** : No personal respiratory protective equipment normally required.  
A particulate filter respirator may be necessary until effective technical measures are installed.
- Hand protection** : Chemical resistant gloves are not usually required.  
Select gloves based on the physical job requirements.
- Eye protection** : Eye protection is not usually required.  
Follow any site specific eye protection policies.
- Skin and body protection** : No special protective equipment required.  
Select skin and body protection based on the physical job requirements.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	: solid
<b>Form</b>	: solid
<b>Colour</b>	: colourless to clear
<b>Odour</b>	: odourless
<b>Odour Threshold</b>	: No data available
<b>pH</b>	: 6.6 at 1 % w/v (25 °C)
<b>Melting point/range</b>	: No data available
<b>Boiling point/boiling range</b>	: No data available
<b>Flash point</b>	: No data available
<b>Evaporation rate</b>	: No data available
<b>Flammability (solid, gas)</b>	: not highly flammable
<b>Lower explosion limit</b>	: No data available
<b>Upper explosion limit</b>	: No data available
<b>Vapour pressure</b>	: No data available
<b>Relative vapour density</b>	: No data available
<b>Density</b>	: 1.263 g/cm <sup>3</sup> at 20 °C
<b>Solubility in other solvents</b>	: No data available
<b>Partition coefficient: n-octanol/water</b>	: No data available

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Auto-ignition temperature	No data available
<b>Thermal decomposition</b>	: No data available
<b>Viscosity, dynamic</b>	: No data available
<b>Viscosity, kinematic</b>	: No data available
<b>Explosive properties</b>	: No data available
<b>Oxidizing properties</b>	: not oxidizing

**9.2 Other information**

<b>Bulk density</b>	: 1 g/ml
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**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

No information available.

**10.2 Chemical stability**

No information available.

**10.3 Possibility of hazardous reactions**

None known.

Hazardous polymerisation does not occur.

**10.4 Conditions to avoid**

No information available.

**10.5 Incompatible materials**

No information available.

**10.6 Hazardous decomposition products**

Combustion or thermal decomposition will evolve toxic and irritant vapors.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

<b>Acute oral toxicity</b>	: LD50 female rat, > 5,000 mg/kg The toxicological data has been taken from products of similar composition.
<b>Acute inhalation toxicity</b>	: male and female rat, > 2.61 mg/l, 4 h The toxicological data has been taken from products of similar composition.
<b>Acute dermal toxicity</b>	: LD50 male and female rat, > 5,050 mg/kg The toxicological data has been taken from products of similar composition.
<b>Skin corrosion/irritation</b>	: rabbit: Practically non-irritating. The toxicological data has been taken from products of similar composition.

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- Serious eye damage/eye irritation** : rabbit: Minimally Irritating  
The toxicological data has been taken from products of similar composition.
- Respiratory or skin sensitisation  
thiamethoxam : guinea pig: Not a skin sensitizer in animal tests.
- Germ cell mutagenicity  
thiamethoxam : Did not show mutagenic effects in animal experiments.
- Carcinogenicity  
thiamethoxam : Liver tumours noted in mice that are not relevant to humans.
- Reproductive toxicity  
thiamethoxam : Did not show reproductive toxicity effects in animal experiments.
- STOT - repeated exposure  
thiamethoxam : Did not show neurotoxicity in animal experiments.
- Further information  
thiamethoxam : No adverse effects in humans are expected at levels below the occupational exposure limit and when the product is handled and used according to the label.

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

- Toxicity to fish  
thiamethoxam : LC50 *Oncorhynchus mykiss* (rainbow trout), > 100 mg/l , 96 h
- Toxicity to aquatic invertebrates  
thiamethoxam : EC50 *Daphnia magna* (Water flea), > 100 mg/l , 48 h  
EC50 *Cloeon* sp., 0.014 mg/l , 48 h
- Toxicity to aquatic plants  
thiamethoxam : ErC50 *Pseudokirchneriella subcapitata* (*Selenastrum capricornutum*), > 81.8 mg/l , 72 h  
EbC50 *Pseudokirchneriella subcapitata* (*Selenastrum capricornutum*), > 81.8 mg/l , 72 h

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### 12.2 Persistence and degradability

#### Biodegradability

thiamethoxam : Not readily biodegradable.

#### Stability in water

thiamethoxam : Degradation half life: 11 d  
Not persistent in water.

#### Stability in soil

thiamethoxam : Degradation half life: 51 d  
Not persistent in soil.

### 12.3 Bioaccumulative potential

thiamethoxam : The substance has low potential for bioaccumulation.

### 12.4 Mobility in soil

thiamethoxam : The substance has medium mobility in soil.

### 12.5 Results of PBT and vPvB assessment

thiamethoxam : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).  
This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

### 12.6 Other adverse effects

None known.

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## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Product** : Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.  
Where possible recycling is preferred to disposal or incineration.  
If recycling is not practicable, dispose of in compliance with local regulations.

**Contaminated packaging** : Empty remaining contents.  
Triple rinse containers.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.



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**SECTION 14: TRANSPORT INFORMATION****Land transport (ADR/RID)**

Not dangerous goods

<b>14.1 UN number:</b>	not applicable
<b>14.2 UN proper shipping name:</b>	not applicable
<b>14.3 Transport hazard class(es):</b>	not applicable
<b>14.4 Packing group:</b>	not applicable
<b>14.5 Environmental hazards</b>	not applicable

**Sea transport(IMDG)**

Not dangerous goods

<b>14.1 UN number:</b>	not applicable
<b>14.2 UN proper shipping name:</b>	not applicable
<b>14.3 Transport hazard class(es):</b>	not applicable
<b>14.4 Packing group:</b>	not applicable
<b>14.5 Environmental hazards</b>	not applicable

**Air transport (IATA-DGR)**

Not dangerous goods

<b>14.1 UN number:</b>	not applicable
<b>14.2 UN proper shipping name:</b>	not applicable
<b>14.3 Transport hazard class(es):</b>	not applicable
<b>14.4 Packing group:</b>	not applicable

**14.6 Special precautions for user**

none

**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**

GHS-Labeling

**Remarks** : Not a dangerous substance according to GHS.

Hazardous components which must be listed on the label:

**15.2 Chemical Safety Assessment**

A Chemical Safety Assessment is not required for this substance.

**SECTION 16: OTHER INFORMATION****Further information**

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Full text of R-phrases referred to under sections 2 and 3:

R11	Highly flammable.
R22	Harmful if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of H-Statements referred to under sections 2 and 3.

H228	Flammable solid.
H302	Harmful if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

ADR:	European Agreement Concerning the International Carriage of Dangerous Goods by Road	RID:	Regulations concerning the International Carriage of Dangerous Goods by Rail
IMDG:	International Maritime Code for Dangerous Goods	IATA-DGR:	International Air Transport Association Dangerous Goods Regulations
LC50:	Lethal concentration, 50%	LD50:	Lethal dose, 50%
EC50:	Effective dose, 50%	GHS:	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

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