

OPTIGARD ANT GEL BAIT

Version 4.0 Revision Date: 18.05.2017 SDS Number: S1346615625 This version replaces all previous versions.

SECTION 1: Identification of the hazardous chemical and of the supplier

Product name : OPTIGARD ANT GEL BAIT

Design code : A15236A

Manufacturer or supplier's details

Company name of supplier

: Syngenta Corporation Sdn. Bhd.

Address

: MR1-02-02, Sri Acappella Commercial Annex, No 1, Jalan Lompat Tinggi 12/33, Seksyen 13, 40100 Shah Alam, Selangor Darul Ehsan, Malaysia

Telephone

: +603 5510 9878

Telefax

: +603 55102818

Emergency telephone number

: +60 376 283 812

Recommended use of the chemical and restrictions on use

Recommended use

: Insecticide

SECTION 2: Hazards identification**Classification of the hazardous chemical**

Not a hazardous substance or mixture.

Label elements

Not a hazardous substance or mixture.

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 20 %

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 20 %

Other hazards which do not result in classification

None known.

SECTION 3: Composition and information of the ingredients of the hazardous chemical**Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
thiamethoxam (ISO)	153719-23-4	< 1

SECTION 4: First aid measures

General advice

: Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control

OPTIGARD ANT GEL BAIT

Version 4.0 Revision Date: 18.05.2017 SDS Number: S1346615625 This version replaces all previous versions.

- center or physician, or going for treatment.
- If inhaled : 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.
- In case of 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.
- In case of 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.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label.
Do NOT induce vomiting.
- Most important symptoms and effects, both acute and delayed : No information available.
- Notes to physician : There is no specific antidote available.
Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

- Suitable 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
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

Physicochemical hazards arising from the chemical

- Specific hazards during firefighting : 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.

OPTIGARD ANT GEL BAIT

Version 4.0 Revision Date: 18.05.2017 SDS Number: S1346615625 This version replaces all previous versions.

Special protective equipment and precautions for fire-fighters

- Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.
- Specific extinguishing methods : Do not allow run-off from fire fighting to enter drains or water courses.
Cool closed containers exposed to fire with water spray.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

- : Refer to protective measures listed in sections 7 and 8.
Avoid dust formation.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.
- 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.
Clean with detergents. Avoid solvents.
Retain and dispose of contaminated wash water.

SECTION 7: Handling and storage

Handling

Precautions for safe handling

Advice on 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.

Storage

Conditions for safe storage, including any incompatibilities

- Conditions for safe storage : 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.

SECTION 8: Exposure controls and personal protection

Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible	Basis

OPTIGARD ANT GEL BAIT

Version 4.0 Revision Date: 18.05.2017 SDS Number: S1346615625 This version replaces all previous versions.

			concentration	
thiamethoxam (ISO)	153719-23-4	TWA	3 mg/m ³	Syngenta

Appropriate engineering controls : 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.

Maintain air concentrations below occupational exposure standards.

Where necessary, seek additional occupational hygiene advice.

Individual protection measures, such as personal protective equipment

Eye/face protection

: No special protective equipment required.

Skin protection

: No special protective equipment required.
Select skin and body protection based on the physical job requirements.

Hand protection
Remarks

: No special protective equipment required.

Respiratory protection

: No personal respiratory protective equipment normally required.
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

SECTION 9: Physical and chemical properties

Appearance

: solid

Odour

: odourless

Odour Threshold

: No data available

pH

: 6.6 (25 °C)
Concentration: 1 % w/v

Evaporation rate

: No data available

Flammability (solid, gas)

: Not classified as a flammability hazard

Burning number

: 2 (20 °C)
2 (100 °C)

OPTIGARD ANT GEL BAIT

Version 4.0 Revision Date: 18.05.2017 SDS Number: S1346615625 This version replaces all previous versions.

Upper explosion limit : No data available
Lower explosion limit : No data available
Relative vapour density : No data available
Density : 1.263 g/cm³ (20 °C)
Decomposition temperature : No data available
Explosive properties : Not explosive
Oxidizing properties : The substance or mixture is not classified as oxidizing.
Self-heating substances : The substance or mixture is not classified as self heating.

SECTION 10: Stability and reactivity

Reactivity : None reasonably foreseeable.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.
Conditions to avoid : No decomposition if used as directed.
Incompatible materials : None known.
Hazardous decomposition products : Combustion or thermal decomposition will evolve toxic and irritant vapours.

SECTION 11: Toxicological information

Information on likely routes of exposure : None known.

Acute toxicity**Product:**

Acute oral toxicity : LD₅₀ (Rat, female): > 5,000 mg/kg
Acute dermal toxicity : LD₅₀ (Rat, male and female): > 5,050 mg/kg

Components:**thiamethoxam (ISO):**

Acute oral toxicity : LD₅₀ (Rat, male and female): 1,563 mg/kg
Acute inhalation toxicity : LC₅₀ (Rat, male and female): > 3.72 mg/l

OPTIGARD ANT GEL BAIT

Version 4.0 Revision Date: 18.05.2017 SDS Number: S1346615625 This version replaces all previous versions.

Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation**Product:**

Species: Rabbit
Result: No skin irritation

Components:**thiamethoxam (ISO):**

Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation**Product:**

Species: Rabbit
Result: No eye irritation

Components:**thiamethoxam (ISO):**

Species: Rabbit
Result: No eye irritation

Respiratory or skin sensitisation**Product:**

Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals.

Components:**thiamethoxam (ISO):**

Species: Guinea pig
Result: Does not cause skin sensitisation.

Germ cell mutagenicity**Components:****thiamethoxam (ISO):**

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

Carcinogenicity**Components:****thiamethoxam (ISO):**

OPTIGARD ANT GEL BAIT

Version 4.0 Revision Date: 18.05.2017 SDS Number: S1346615625 This version replaces all previous versions.

Carcinogenicity - Assessment : Liver tumours noted in mice that are not relevant to humans.

Reproductive toxicity

Components:

thiamethoxam (ISO):

Reproductive toxicity - Assessment : No toxicity to reproduction

Repeated dose toxicity

Components:

thiamethoxam (ISO):

Remarks: Did not show neurotoxicity in animal experiments.

Further information

Components:

thiamethoxam (ISO):

Remarks: No data available

SECTION 12: Ecological information

Ecotoxicity

Product:

Components:

thiamethoxam (ISO):

Toxicity to fish

: LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h

EC50 (Cloeon sp.): 0.014 mg/l
Exposure time: 48 h

EC50 (Chironomus riparius (harlequin fly)): 0.035 mg/l
Exposure time: 48 h

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (algae)): > 81.8 mg/l
Exposure time: 72 h

NOEC (Pseudokirchneriella subcapitata (algae)): 81.8 mg/l
End point: Growth rate
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 28 d

OPTIGARD ANT GEL BAIT

Version 4.0 Revision Date: 18.05.2017 SDS Number: S1346615625 This version replaces all previous versions.

Test Type: flow-through test

NOEC (Oncorhynchus mykiss (rainbow trout)): > 20 mg/l
Exposure time: 88 d
Test Type: Early-life Stage

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 100 mg/l
Exposure time: 21 d

NOEC (Chironomus riparius (Midge larvae)): 0.01 mg/l
Exposure time: 30 d

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l
Exposure time: 3 h

Persistence and degradability**Components:****thiamethoxam (ISO):**

Biodegradability

: Result: Not readily biodegradable.

Stability in water

: Degradation half life: 11 d
Remarks: Product is not persistent.**Bioaccumulative potential****Components:****thiamethoxam (ISO):**

Bioaccumulation

: Remarks: Low bioaccumulation potential.

Partition coefficient: n-octanol/water

: log Pow: -0.13 (25 °C)

Mobility in soil**Components:****thiamethoxam (ISO):**

Distribution among environmental compartments

: Remarks: Moderately mobile in soils

Stability in soil

: Percentage dissipation: 50 % (DT50)
Remarks: Product is not persistent.**Other adverse effects****Product:**

Additional ecological information

: No data available

OPTIGARD ANT GEL BAIT

Version 4.0 Revision Date: 18.05.2017 SDS Number: S1346615625 This version replaces all previous versions.

Components:**thiamethoxam (ISO):**

Additional ecological information : No data available

SECTION 13: Disposal information**Disposal methods**

- Waste from residues : 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.
-

SECTION 14: Transport information**International Regulations****UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

SECTION 15: Regulatory information**Safety, health, and environmental regulations specific for the hazardous chemical**

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

SECTION 16: Other information**Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration

OPTIGARD ANT GEL BAIT

Version	Revision Date:	SDS Number:	This version replaces all previous versions.
4.0	18.05.2017	S1346615625	

associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Date format : dd.mm.yyyy

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

MY / EN