

ACTELIC GOLD DUST

Version 1

Revision Date 17.09.2010

Print Date 17.09.2010

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

PRODUCT INFORMATION

Product name : ACTELIC GOLD DUST
Design code : A15665B
Use : Insecticide
Company : Syngenta Crop Protection AG
 Postfach
 CH-4002 Basel
 Switzerland
Telephone : +41 61 323 11 11
Telefax : +41 61 323 12 12
**Emergency tele-
phone number** : +44 1484 538444
E-mail address : safetydatasheetcoordination@syngenta.com



**Dangerous for
the environment**

2. HAZARDS IDENTIFICATION

Toxic to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	EC-No. (REACH Regis- tration Number)	Symbol(s)	R-phrase(s)	Concentration
pirimiphos-methyl	29232-93-7	249-528-5	Xn, N	R22 R50/53	1.6 % W/W
thiamethoxam	153719-23-4		Xn, N	R22 R50/53	0.36 % 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.

4. 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.

ACTELIC GOLD DUST

Version 1

Revision Date 17.09.2010

Print Date 17.09.2010

- 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.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label.
Do NOT induce vomiting.
- Medical advice** : There is no specific antidote available.
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- 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
- Extinguishing media which shall not be used for safety reasons** : Do not use a solid water stream as it may scatter and spread fire.
- Specific hazards during fire fighting** : 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.
- Special protective equipment for fire-fighters** : Wear full protective clothing and self-contained breathing apparatus.
- Further information** : Do not allow run-off from fire fighting to enter drains or water courses.
Cool closed containers exposed to fire with water spray.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : 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.
- Methods for 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.

ACTELIC GOLD DUST

Version 1

Revision Date 17.09.2010

Print Date 17.09.2010

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

7. HANDLING AND STORAGE

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

Requirements for storage areas and containers : 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	Exposure limit(s)	Type of exposure limit	Source
thiamethoxam	3 mg/m ³	8 h TWA	SYNGENTA
pirimiphos-methyl	3 mg/m ³	8 h TWA	SYNGENTA

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.

PERSONAL PROTECTIVE EQUIPMENT

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.

ACTELIC GOLD DUST

Version 1

Revision Date 17.09.2010

Print Date 17.09.2010

- 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : solid
Form : powder
Colour : grey beige

10. STABILITY AND REACTIVITY

- Hazardous decomposition products** : Combustion or thermal decomposition will evolve toxic and irritant vapors.
- Hazardous reactions** : None known.
Hazardous polymerisation does not occur.
Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity** : LD50 female Rat, > 2,000 mg/kg
GHS-Classification
None
- Acute inhalation toxicity** : LC50 Rat, 7.10 mg/l, 4 h
GHS-Classification
None
- Acute dermal toxicity** : LD50 Rat, > 5,000 mg/kg
GHS-Classification
None
- Skin irritation** : Rabbit: Non-irritating
GHS-Classification
None
- Eye irritation** : Rabbit: Non-irritating
GHS-Classification
None
- Sensitisation** : Buehler Test guinea pig: Not a skin sensitizer in animal tests.
GHS-Classification
None
- Long term toxicity**
pirimiphos-methyl : Did not show carcinogenic, teratogenic or mutagenic effects in

ACTELIC GOLD DUST

Version 1

Revision Date 17.09.2010

Print Date 17.09.2010

animal experiments.

- thiamethoxam : Liver tumours noted in mice that are not relevant to humans.
Did not show reproductive toxicity effects in animal experiments.
Animal testing did not show any effects on foetal development.
- : Did not show neurotoxicity in animal experiments.

12. ECOLOGICAL INFORMATION

ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)

Stability in water

- pirimiphos-methyl : Pirimiphos-methyl is not persistent in water.
thiamethoxam : Degradation half life: 11 d
Thiamethoxam is not persistent in water.

Stability in soil

- pirimiphos-methyl : Pirimiphos-methyl is not persistent in soil.
thiamethoxam : Degradation half life : 51 d
Thiamethoxam is not persistent in soil.

Mobility

- pirimiphos-methyl : Pirimiphos-methyl has low mobility in soil.
thiamethoxam : Thiamethoxam has medium mobility in soil.

Bioaccumulation

- pirimiphos-methyl : Pirimiphos-methyl has high potential for bioaccumulation
thiamethoxam : Thiamethoxam has low potential for bioaccumulation.

ECOTOXICITY EFFECTS

Toxicity to fish

- thiamethoxam : LC50 *Oncorhynchus mykiss* (rainbow trout), > 100 mg/l , 96 h

GHS-Classification

None

Toxicity to aquatic invertebrates

- thiamethoxam : EC50 *Daphnia magna* (Water flea), > 100 mg/l , 48 h

EC50 *Cloeon* sp., 14 µg/l , 48 h

GHS-Classification

Category 1

Toxicity to aquatic plants

- thiamethoxam : ErC50 *Pseudokirchneriella subcapitata* (green algae), > 81.8 mg/l , 72 h

GHS-Classification

None

ACTELIC GOLD DUST

Version 1

Revision Date 17.09.2010

Print Date 17.09.2010

FURTHER INFORMATION ON ECOLOGY

Additional ecological information : GHS-Classification
Category 2

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION**Land transport***ADR/RID:*

UN number: 3077

Class: 9

Labels: 9

Packaging group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(THIAMETHOXAM)

Environmentally hazardous: Environmentally hazardous

Sea transport*IMDG:*

UN number: 3077

Class: 9

Labels: 9

Packaging group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(THIAMETHOXAM)

Marine pollutant : Marine pollutant

ACTELIC GOLD DUST

Version 1

Revision Date 17.09.2010

Print Date 17.09.2010

Air transport

IATA-DGR:
UN/ID No.: UN 3077
Class: 9
Labels: 9
Packaging group: III
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (THIAMETHOXAM)

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol(s)	: N	Dangerous for the environment
R-phrase(s)	: R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	: S 2 S13 S20/21 S35 S57	Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. This material and its container must be disposed of in a safe way. Use appropriate container to avoid environmental contamination.

GHS-Labeling

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Pictogram



Signal word	: Warning	
Hazard statements	: H411	Toxic to aquatic life with long lasting effects.
Precautionary statements	: P102 P270 P391 P501	Keep out of reach of children. Do not eat, drink or smoke when using this product. Collect spillage. Dispose of contents/ container to an approved waste disposal plant.

ACTELIC GOLD DUST

Version 1

Revision Date 17.09.2010

Print Date 17.09.2010

Remarks : Classified using all GHS hazard classes and categories. Where the GHS contains options, the most conservative option has been chosen. Regional or national implementations of GHS may not implement all hazard classes and categories.

Hazardous components which must be listed on the label:

16. OTHER INFORMATION**Further information**

Text of R-phrases mentioned in Section 3:

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

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.

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

Product names are a trademark or registered trademark of a Syngenta Group Company.
