

ACTARA 25 WG

Version 7

Revision Date 11.03.2005

Print Date 11.03.2005

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**PRODUCT INFORMATION**

Product name : ACTARA 25 WG

Design Code : A9584C

Use : Insecticide

Company : Syngenta Crop Protection AG
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Switzerland

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2. COMPOSITION/INFORMATION ON INGREDIENTS**Hazardous components**

Chemical Name	CAS-No.	EC-No.	Symbol(s)	R-phrase(s)	Concentration
thiamethoxam	153719-23-4		Xn	R22	25 % W/W

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

3. Hazards identification

May form flammable dust-air mixture.

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 : Remove to fresh air.
If breathing is irregular or stopped, administer artificial respiration.
Keep patient warm and at rest.
Call a physician or Poison Control Center 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.

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- 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
water spray
- Extinguishing media which must 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** : In the event of fire, wear 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** : Pick up and arrange disposal without creating dust.
Do not create a powder cloud by using a brush or compressed air.
Clean contaminated surface thoroughly.
- Additional advice** : If the product contaminates rivers and lakes or drains inform respective authorities.

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7. HANDLING AND STORAGE**HANDLING**

Advice on safe handling : This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flammable solvents. 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 : 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 feed.

Other data : Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	Exposure limit(s)	Value type	Source
thiamethoxam	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.
- 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. Eye/face protection should be certified to EN 166.
- 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

- Form** : granules
- Colour** : beige to brown
- Odour** : musty
- pH** : 7 - 11 at 1 % w/v
- Flammability (solid, gas)** : not highly flammable
- Dust explosion class** : Class 1

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Minimum ignition energy	: < 1 J
Oxidizing properties	: not oxidizing
Explosive properties	: Not explosive
Bulk density	: 0.42 - 0.52 g/cm ³
Water solubility	: Miscible
Solubility in other solvents	: not soluble in water
Surface tension	: 46.0 - 47.6 mN/m at 20 °C

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50 Rat, > 5,000 mg/kg
Acute inhalation toxicity	: LC50 Rat, > 5,290 mg/m ³ , 4 h
Acute dermal toxicity	: LD50 Rat, > 5,000 mg/kg
Skin irritation	: Rabbit: non irritant assessment according to 93/21/EEC
Eye irritation	: Rabbit: non irritant assessment according to 93/21/EEC
Sensitization	: Guinea Pig not sensitizing assessment according to 93/21/EEC
Long term toxicity	Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

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12. ECOLOGICAL INFORMATION**ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)****Bioaccumulation** : Thiamethoxam has low potential for bioaccumulation**Stability in water** : Thiamethoxam is not persistent in water**Stability in soil** : Thiamethoxam is not persistent in soil**Mobility** : Thiamethoxam has medium mobility in soil**ECOTOXICITY EFFECTS****Toxicity to fish** : LC50 *Oncorhynchus mykiss* (Rainbow trout), > 100 mg/l , 96 h**Toxicity to aquatic invertebrates** : EC50 *Daphnia magna* (water flea), > 100 mg/l , 48 h**Toxicity to algae** : ERC50 *Selenastrum capricornutum* (green algae), > 100 mg/l , 72 h

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 for local recycling or waste disposal.
Do not re-use empty containers.

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

Regulation: Not dangerous goods

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Sea transport

IMDG:

Regulation: Not dangerous goods

Air transport

IATA-DGR

Regulation: Not dangerous goods

15. REGULATORY INFORMATION

Labelling according to EC Directives

Exceptional labelling of special preparations : Safety data sheet available for professional user on request. To avoid risks to man and the environment, comply with the instructions for use.

Note : Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.

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16. OTHER INFORMATION

Further information

Text of R phrases mentioned in Section 2:

R22 Harmful if swallowed.

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.

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