

# CRUISER

Version 7

Revision Date 13.06.2005

Print Date 13.06.2005

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### PRODUCT INFORMATION

**Product name** : CRUISER  
**Design Code** : A9567B  
**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 telephone number** : +44 1484 538444



Highly flammable



Dangerous for the environment

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous components

Chemical Name	CAS-No.	EC-No.	Symbol(s)	R-phrase(s)	Concentration
thiamethoxam	153719-23-4		Xn, N	R22 R50/53	70 % W/W

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

## 3. Hazards identification

Highly flammable.  
 May form flammable dust-air mixture.  
 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 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.

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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** : Fire will spread by burning with flame.  
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. In general personnel handling this material and all conducting equipment should be electrically earthed or grounded. Bulk bags (FIBC) used to contain this material should be Type B, Type C or Type D. Type C bags must be electrically grounded or earthed before powder is charged to or discharged from the bag. If metal or fibre drums are used to contain this material, make certain the metal parts are bonded to the filling equipment and grounded. This material could become charged under certain conditions such as pneumatic conveying. 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.

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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 <sup>3</sup>	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** : powder
- Colour** : light red to dark red
- Odour** : weak
- pH** : 7.0 - 10.0 at 1 % w/v (20 - 25 °C)
- Flammability (solid, gas)** : Highly flammable
- Dust explosion class** : Forms flammable dust clouds.

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<b>Minimum ignition energy</b>	: < 10 mJ
<b>Oxidizing properties</b>	: not oxidizing
<b>Explosive properties</b>	: Not explosive
<b>Bulk density</b>	: 0.3 - 0.6 g/cm <sup>3</sup>
<b>Water solubility</b>	: Miscible
<b>Surface tension</b>	: 41.6 - 42.0 mN/m at 20 °C

**10. STABILITY AND REACTIVITY**

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

**11. TOXICOLOGICAL INFORMATION**

<b>Acute oral toxicity</b>	: LD50 Rat, 2,918 mg/kg
<b>Acute inhalation toxicity</b>	: LC50 Rat, > 4.02 mg/l, 4 h
<b>Acute dermal toxicity</b>	: LD50 Rat, > 5,000 mg/kg
<b>Skin irritation</b>	: Rabbit: non irritant assessment according to 93/21/EEC
<b>Eye irritation</b>	: Rabbit: non irritant assessment according to 93/21/EEC
<b>Sensitization</b>	: Guinea Pig not sensitizing assessment according to 93/21/EEC

**Long term toxicity**

Liver tumors 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.

This information refers to Thiamethoxam, No adverse effects in

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humans are expected at levels below the occupational exposure limit and when the product is handled and used according to the label.

**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  
Dynamic conditions
- Toxicity to aquatic invertebrates** : EC50 *Daphnia magna* Straus, 39 mg/l , 48 h  
Static conditions
- : EC50 *Cloeon* sp., 20 µg/l , 48 h
- Toxicity to algae** : ERC50 *Selenastrum capricornutum* (green algae), > 100 mg/l ,  
72 h  
Static conditions

**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**

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**Land transport***ADR/ RID:*

UN-No: 1325  
Class: 4.1  
Danger Label Number : 4.1  
Packaging group III  
Proper shipping name : FLAMMABLE SOLID, ORGANIC, N.O.S.  
( THIAMETHOXAM )

**Sea transport***IMDG:*

UN-No: 1325  
Class: 4.1  
Danger Label Number : 4.1  
Packaging group: III  
Proper shipping name : FLAMMABLE SOLID, ORGANIC, N.O.S.  
( THIAMETHOXAM )

**Air transport***IATA-DGR*

UN-No: 1325  
Class: 4.1  
Danger Label Number : 4.1  
Packaging group: III  
Proper shipping name : FLAMMABLE SOLID, ORGANIC, N.O.S.  
( THIAMETHOXAM )

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**15. REGULATORY INFORMATION****Labelling according to EC Directives**

<b>Symbol(s)</b>	: F N	Highly flammable Dangerous for the environment
<b>R-phrase(s)</b>	: R11 R50/53	Highly flammable. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>S-phrase(s)</b>	: S 2	Keep out of the reach of children.

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S 7	Keep container tightly closed.
S13	Keep away from food, drink and animal feedingstuffs.
S20/21	When using do not eat, drink or smoke.
S35	This material and its container must be disposed of in a safe way.
S57	Use appropriate container to avoid environmental contamination.

**Exceptional labelling of special preparations** : To avoid risks to man and the environment, comply with the instructions for use.

**Note** : The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

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**16. OTHER INFORMATION****Further information**

Text of R phrases mentioned in Section 2:

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

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