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

1.1 Product identifier

Product name : CRUISER 350 FS

Design code : A9700B

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use : Insecticide

Seed treatment

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-

: +44 1484 538444

phone number

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008

Acute aquatic toxicity Category 1 H400 Chronic aquatic toxicity Category 1 H410

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

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

N, Dangerous for the environment

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

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2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008

Hazard pictograms



Signal word : Warning

Hazard statements : H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : P102 Keep out of reach of children.

P270 Do not eat, drink or smoke when using this product.

P391 Collect spillage.

P501 Dispose of contents/ container to an approved waste

disposal plant.

Supplemental information : EUH401 To avoid risks to human health and the environment,

comply with the instructions for use.

Hazardous components which must be listed on the label:

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

Symbol(s)



Dangerous for the envi-

R-phrase(s) : R50/53 Very toxic to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

S-phrase(s) : S 2 Keep out of the reach of children.

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.

Additional Labelling : To avoid risks to man and the environment, comply with the instructions

for use.

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2.3 Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration num- ber	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration
thiamethoxam	153719-23-4	Xn, N R22 R50/53	Flam. Sol.2; H228 Acute Tox.4; H302 Aquatic Acute1; H400 Aquatic Chronic1; H410	30 % W/W
pro- pane-1,2,3-triol	56-81-5 200-289-5	-	-	5 - 10 % W/W
poly(oxy-1,2-eth anediyl), al- pha-sulfo-omeg a-[tris(1-phenyle thyl)phenoxy]-, ammonium salt	119432-41-6 137672-70-9	Xi R41 R52/53	Eye Dam.1; H318 Aquatic Chronic3; H412	1 - 5 % 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.

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.

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.

Avoid dust ioitilai

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.

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.

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

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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	Exposure limit(s)	Type of expo- sure limit	Source
		Sure IIIIII	
thiamethoxam	3 mg/m3	8 h TWA	SYNGENTA
propane-1,2,3-triol	10 mg/m3 (Aerosol) 10 mg/m3 (Aerosol)	8 h TWA 8 h TWA	ACGIH UK HSE

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 profes-

sional advice.

Personal protective equipment should be certified to appropriate stan-

dards.

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

Physical state : liquid Form : liquid

Colour : light red to dark red
Odour : no data available
Odour Threshold : no data available
pH : 4 - 8 at 1 % w/v
Melting point/range : no data available
Boiling point/boiling range : no data available

Flash point : > 101 °C

Evaporation rate : no data available Flammability (solid, gas) : no data available Lower explosion limit : no data available Upper explosion limit : no data available Vapour pressure : no data available Relative vapor density : no data available

Density : 1.1785 g/cm3 at 20 - 25 °C

Solubility in other solvents : no data available Partition coefficient: : no data available

n-octanol/water

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Auto-ignition temperature no data available Thermal decomposition : no data available

Viscosity, dynamic : 300 - 800 mPa.s at 20 - 25 °C

: 44.5 - 342 mPa.s at 40 °C

: 62.5 - 426 mPa.s at 20 °C

Viscosity, kinematic : no data available Explosive properties : Not explosive Oxidizing properties : not oxidizing

9.2 Other information

Miscibility : Miscible

Surface tension : 45.9 mN/m at 20 °C

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

Acute oral toxicity : LD50 male and female rat, > 3,000 mg/kg

Acute inhalation toxicity : Median lethal concentration male and female rat, > 2.83 mg/l , 4 h

Acute dermal toxicity : LD50 male and female rat, > 4,000 mg/kg

Skin corrosion/irritation : rabbit: Mildly irritating

Serious eye damage/eye

irritation

: rabbit: Practically non-irritating.

Respiratory or skin sensiti-

zation

guinea pig: Not a skin sensitizer in animal tests.

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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 occupa-

tional exposure limit and when the product is handled and used according

to the label.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish : LC50 Oncorhynchus mykiss (rainbow trout), > 100 mg/l , 96 h

Toxicity to aquatic inverte-

brates

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

Toxicity to aquatic plants : EbC50 Pseudokirchneriella subcapitata (green algae), > 100 mg/l , 72 h

: ErC50 Pseudokirchneriella subcapitata (green algae), > 100 mg/l , 72 h

12.2 Persistence and degradability

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

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thiamethoxam : This substance is not considered to be persistent, bioaccumulating nor

toxic (PBT).

This substance is not considered to be very persistent nor very bioac-

cumulating (vPvB).

12.6 Other adverse effects

None known.

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 regula-

tions.

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

Land transport (ADR/RID)

14.1 UN number: UN 3082

14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(THIAMETHOXAM)

14.3 Transport hazard class(es): 9
14.4 Packing group: III
Labels: 9

14.5 Environmental hazards : Environmentally hazardous

Sea transport(IMDG)

14.1 UN number: UN 3082

14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(THIAMETHOXAM)

14.3 Transport hazard class(es): 9 **14.4 Packing group:** III
Labels: 9

14.5 Environmental hazards : Marine pollutant

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Air transport (IATA-DGR)

14.1 UN number: UN 3082

14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(THIAMETHOXAM)

14.3 Transport hazard class(es):914.4 Packing group:IIILabels:9

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-Labelling

Hazard pictograms



Signal word : Warning

Hazard statements : H316 Causes mild skin irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : P102 Keep out of reach of children.

P270 Do not eat, drink or smoke when using this product.

P391 Collect spillage.

P501 Dispose of contents/ container to an approved

waste disposal plant.

Supplemental information : EUH401 To avoid risks to human health and the environ-

ment, comply with the instructions for use.

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:

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15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16. OTHER INFORMATION

Further information

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

R22 Harmful if swallowed.

R41 Risk of serious damage to eyes.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R52/53 Harmful 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.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.

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