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

1.1 Product identifier

Product name : CRUISER 600 FS

Design code : A9765N

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

Skin sensitisation	Sub-category 1B
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

Xi, Irritant

R43: May cause sensitisation by skin contact.

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 : H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : P102 Keep out of reach of children.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ protective clothing.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

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 environment

Irritant

R-phrase(s) : R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

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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.

S36/37 Wear suitable protective clothing and gloves.

S57 Use appropriate container to avoid environmental

contamination.

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

for use.

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	F, Xn, N R11 R22 R50/53	Flam. Sol.1; H228 Acute Tox.4; H302 Aquatic Acute1; H400 Aquatic Chronic1; H410	46 % W/W
poly(oxy-1,2-eth anediyl), al- pha-phosphono- ome- ga-[2,4,6-tris(1-p henylethyl)phen oxy]-	90093-37-1 114535-82-9 618-446-5	Xi R36	Eye Irrit.2; H319	1 - 5 % W/W
propane-1,2-diol	57-55-6 200-338-0	-	-	1 - 5 % W/W
titanium dioxide	13463-67-7 236-675-5	-	-	1 - 5 % W/W
poly(oxy-1,2-eth anediyl), -[2,4,6-tris(1-phe nylethyl)phenyl]- -hydroxy-	99734-09-5 70559-25-0	R52/53	Aquatic Chronic3; H412	1 - 5 % W/W
lignosulfonic acid, ethoxylat- ed, sodium salts	68611-14-3	Xi R36/37	Eye Irrit.2; H319 STOT SE3; H335	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.

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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.

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.

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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.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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.

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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.

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
thiamethoxam	3 mg/m3	8 h TWA	SYNGENTA
propane-1,2-diol	10 mg/m3 (Particulates) 150 ppm, 470 mg/m3 (Total (vapour & particulates))	8 h TWA 8 h TWA	UK HSE UK HSE
titanium dioxide	4 mg/m3 (Respirable dust) 10 mg/m3 (Inhalable fraction)	8 h TWA 8 h TWA	UK HSE UK HSE

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.

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 mists or vapors are generated, use local exhaust ventilation controls.

orthois.

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

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personal protective equipment.

When selecting personal protective equipment, seek appropriate profes-

sional advice.

Personal protective equipment should be certified to appropriate stand-

ards.

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 should be used.

Gloves should be certified to an appropriate standard.

Gloves should have a minimum breakthrough time that is appropriate to

the duration of exposure.

The breakthrough time of gloves varies according to the thickness, mate-

rial and manufacturer.

Gloves should be discarded and replaced if there is any indication of

degradation or chemical breakthrough.

Suitable material Nitrile rubber

Eye protection : Eye protection is not usually required.

Follow any site specific eye protection policies.

Skin and body protection : Assess the exposure and select chemical resistant clothing based on the

potential for contact and the permeation / penetration characteristics of

the clothing material.

Wash with soap and water after removing protective clothing.

Decontaminate clothing before re-use, or use disposable equipment

(suits, aprons, sleeves, boots, etc.)

Wear as appropriate:

Dust impervious protective suit

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state: liquidForm: liquidColour: beigeOdour: musty

Odour Threshold : no data available

pH : 7.2 at 1 % w/v (25 °C)

Melting point/range : no data available

Boiling point/boiling range : no data available

Flash point : > 95 °C at 748 mmHg

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 vapour density : no data available
Density : 1.297 g/cm3 at 20 °C

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

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n-octanol/water

Auto-ignition temperature : 440 °C

Thermal decomposition : no data available Viscosity, dynamic : 825 mPa.s at 20 °C Viscosity, kinematic : no data available **Explosive properties** : Not explosive Oxidizing properties : not oxidizing

9.2 Other information

Surface tension : 44.9 mN/m

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 female rat, > 5,000 mg/kg

Acute inhalation toxicity : LC50 male and female rat, > 1.57 mg/l, 4 h

Acute dermal toxicity : LD50 male and female rat, > 5,050 mg/kg

Skin corrosion/irritation : rabbit: Non-irritating

Serious eye damage/eye

irritation

: rabbit: Non-irritating

tisation

Respiratory or skin sensi: Buehler Test guinea pig: A skin sensitizer

Germ cell mutagenicity

thiamethoxam : Did not show mutagenic effects in animal experiments.

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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

Based on test results obtained with similar product.

Toxicity to aquatic inver-

tebrates

EC50 Daphnia magna (Water flea), > 100 mg/l, 48 h Based on test results obtained with similar product.

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

Based on test results obtained with similar product.

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

Based on test results obtained with similar product.

12.2 Persistence and degradability

Biodegradability

thiamethoxam : Not readily biodegradable.

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.

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12.4 Mobility in soil

thiamethoxam : The substance has medium mobility in soil.

12.5 Results of PBT and vPvB assessment

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

Other information : Classification of the product is based on the summation of the concentra-

tions of classified components.

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.

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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

Tunnel restriction code:

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

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): 9 **14.4 Packing group:** III
Labels: 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





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Signal word	:	Warning	
Hazard statements	:	H317 H410	May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.
Precautionary statements	<u>:</u>	P102 P261 P280 P302 + P352 P333 + P313 P391 P501	Keep out of reach of children. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wear protective gloves/ protective clothing. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/ attention. Collect spillage. Dispose of contents/ container to an approved waste disposal plant.
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:

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: OTHER INFORMATION

Further information

H412

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

R11	Highly flammable.
R22	Harmful if swallowed.
R36	Irritating to eyes.

R36/37 Irritating to eyes and respiratory system.

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.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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Harmful to aquatic life with long lasting effects.



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