

Version 8 - This version replaces all previous versions.

Revision Date 27.03.2015 Print Date 30.03.2015

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

1.1 Product identifier

Product name : ACTARA 240 SC

Design code : A9795B

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

Use : Insecticide

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

Chronic aquatic toxicity

Category 1

H400

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 : P391 Collect spillage.

P501 Dispose of contents/ container to an approved waste

disposal plant.

Supplemental information : EUH208 Contains 1,2-benzisothiazol-3-one. May produce an

allergic reaction.

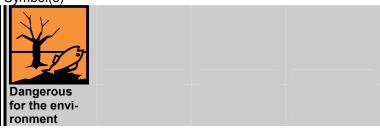
EUH401 To avoid risks to human health and the environment,

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)



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 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.
Additional Labelling	:	To avoid risks to man and the environment, comply with the instructions for use. EUH208 Contains 1,2-benzisothiazol-3-one. May produce an allergic reaction.	

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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 153719-23-4	F, Xn, N R11 R22 R50/53	Flam. Sol.1; H228 Acute Tox.4; H302 Aquatic Acute1; H400 Aquatic Chronic1; H410	21.6 % 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 90093-37-1 618-446-5	Xi R36	Eye Irrit.2; H319	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.

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.

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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.

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.

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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.

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.

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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

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.

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 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 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 : beige to brown

Odour : weak

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Odour Threshold : No data available pH : 5 - 7 at 1 % w/v

Melting point/range : No data available Boiling point/boiling range : No data available : No data available : >= 100 °C

Flash point : >= 100 °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

Density : 1.11 - 1.15 g/cm3 at 20 °C

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

n-octanol/water

Relative vapour density

Auto-ignition temperature : 415 °C

Thermal decomposition : No data available

Viscosity, dynamic : 52.8 - 440 mPa.s at 20 °C

: 46.0 - 403 mPa.s at 40 °C

: No data available

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

9.2 Other information

Surface tension : 39.3 mN/m at 20 °C

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

See section 10.3 "Possibility of hazardous reactions".

10.2 Chemical stability

The product is stable when used in normal conditions

10.3 Possibility of hazardous reactions

No hazardous reactions by normal handling and storage according to

provisions.

10.4 Conditions to avoid

No decomposition if used as directed.

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10.5 Incompatible materials

No substances are known which lead to the formation of hazardous

substances or thermal reactions.

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

: LD50 male and female Rat, > 5,000 mg/kg Acute oral toxicity

: LC50 male and female Rat, > 5.39 mg/l, 4 h Acute inhalation toxicity

Acute dermal toxicity : LD50 male and female Rabbit, > 2,000 mg/kg

Skin corrosion/irritation : Rabbit: Slightly irritating

Serious eve damage/eve

irritation

Rabbit: Slightly irritating

tisation

Respiratory or skin sensi-: Buehler Test Guinea pig: Not a skin sensitizer in animal tests.

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), > 495 mg/l, 96 h

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Toxicity to aquatic inver-

tebrates

: EC50 Daphnia magna (Water flea), > 490 mg/l, 48 h

Toxicity to aquatic plants : ErC50 Scenedesmus capricornutum (fresh water algae), > 416 mg/l , 72

h

12.2 Persistence and degradability

Biodegradability

thiamethoxam : No data available

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 : No data available

12.4 Mobility in soil

thiamethoxam : No data available

12.5 Results of PBT and vPvB assessment

thiamethoxam : No data available

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

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Hazard pictograms



Signal word : Warning

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

Precautionary statements : P391 Collect spillage.

P501 Dispose of contents/ container to an approved

waste disposal plant.

Supplemental information : EUH208 Contains 1,2-benzisothiazol-3-one. May produce

an allergic reaction.

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

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.

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Full text of H-Statements referred to under sections 2 and 3.

H228 Flammable solid.
 H302 Harmful if swallowed.
 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.
 H412 Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

ADR:	European Agreement Concerning the International	RID:	Regulations concerning the International Car-
	Carriage of Dangerous Goods by Road		riage of Dangerous Goods by Rail
IMDG:	International Maritime Code for Dangerous Goods	IATA-DGR:	International Air Transport Association Danger-
			ous Goods Regulations
LC50:	Lethal concentration, 50%	LD50:	Lethal dose, 50%
EC50:	Effective dose, 50%	GHS:	Globally Harmonized System of Classification
			and Labelling of Chemicals (GHS)

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