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

1.1 Product identifier

Product name : TRIGARD 100SL

Design code : A6963C

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

Chronic aquatic toxicity Category 3 H412

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

Not classified according to EU legislation

2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements: P273 Avoid release to the environment.

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.

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Hazardous components which must be listed on the label:

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
cyromazine	66215-27-8 266-257-8	-	Aquatic Chronic2; H411	8.9 % W/W
hydrochloric acid	7647-01-0 231-595-7 01-2119484862-27-X XXX	C R34 R37	Skin Corr.1B; H314 STOT SE3; H335 Met. Corr.1; H290	<= 0.5 % 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.

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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.

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.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

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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.

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
hydrochloric acid	5 ppm 5 ppm 10 ppm 5 ppm 50 ppm 1 ppm, 2 mg/m3 5 ppm, 8 mg/m3 5 ppm, 8 mg/m3 10 ppm, 15 mg/m3	8 h TWA 8 h TWA Short term ex- posure limit IDLH 8 h TWA 15 min STEL 8 h TWA 15 min STEL	DFG SUVA SUVA ACGIH NIOSH UK HSE UK HSE IOELV IOELV
cyromazine	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 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 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.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : liquid : liquid : liquid

Colour : light yellow to brown

Odour : sweetish

Odour Threshold : no data available pH : 4 - 8 at 1 % w/v

(as aqueous solution)

Melting point/range : no data available

Boiling point/boiling range : > 90 °C at 101.325 kPa

Flash point : $> 105 \, ^{\circ}\text{C}$

Evapouration rate : no data available

Flammability (solid, gas) : not highly flammable
Lower explosion limit : no data available
Upper explosion limit : no data available
Vapour pressure : no data available
Relative vapour density : no data available

Density : 1.11 - 1.15 g/cm3 at 20 °C

Solubility in other solvents : soluble

Partition coefficient: : no data available

n-octanol/water

Auto-ignition temperature : 405 °C

Thermal decomposition : no data available
Viscosity, dynamic : 56.3 mPa.s at 20 °C
: 20.0 mPa.s at 40 °C
Viscosity, kinematic : no data available

Explosive properties : no data availa

Explosive properties : Not explosive

Oxidizing properties : not oxidizing

9.2 Other information

Miscibility : Miscible

Surface tension : 41.0 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.

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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, > 5,000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate, > 5.0 mg/l

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

Skin corrosion/irritation : rabbit: Non-irritating

Serious eye damage/eye

irritation

: rabbit: Non-irritating

Respiratory or skin sensi- :

tisation

Maximisation Test guinea pig: Not a skin sensitizer in animal tests.

The toxicological data has been taken from products of similar composi-

tion.

Germ cell mutagenicity

cyromazine : Did not show mutagenic effects in animal experiments.

hydrochloric acid : In vitro tests did not show mutagenic effects

Carcinogenicity

cyromazine : Did not show carcinogenic effects in animal experiments.

hydrochloric acid : Animal testing did not show any carcinogenic effects.

Teratogenicity

cyromazine : Did not show teratogenic effects in animal experiments.

Reproductive toxicity

cyromazine : Did not show reproductive toxicity effects in animal experiments.

hydrochloric acid : Animal testing did not show any effects on fertility.

STOT - single exposure

hydrochloric acid : May cause respiratory irritation.

STOT - repeated exposure

cyromazine : No adverse effect has been observed in chronic toxicity tests.

SECTION 12. ECOLOGICAL INFORMATION

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12.1 Toxicity

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

Toxicity to aquatic inver-

tebrates

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

Toxicity to aquatic plants : ErC50 Pseudokirchneriella subcapitata (green algae), > 100 mg/l, 96 h

EbC50 Pseudokirchneriella subcapitata (green algae), > 100 mg/l, 96 h

12.2 Persistence and degradability

Biodegradability

cyromazine : Not readily biodegradable.

Stability in water

cyromazine : Degradation half life: 94 - 254 d

Persistent in water.

12.3 Bioaccumulative potential

cyromazine : Does not bioaccumulate.

12.4 Mobility in soil

cyromazine : Cyromazine has low to high mobility in soil

12.5 Results of PBT and vPvB assessment

cyromazine : 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).

hydrochloric acid : 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-

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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)

Not dangerous goods

14.1 UN number:not applicable14.2 UN proper shipping name:not applicable14.3 Transport hazard class(es):not applicable14.4 Packing group:not applicable14.5 Environmental hazardsnot applicable

Sea transport(IMDG)

Not dangerous goods

14.1 UN number:not applicable14.2 UN proper shipping name:not applicable14.3 Transport hazard class(es):not applicable14.4 Packing group:not applicable14.5 Environmental hazardsnot applicable

Air transport (IATA-DGR)

Not dangerous goods

14.1 UN number:not applicable14.2 UN proper shipping name:not applicable14.3 Transport hazard class(es):not applicable14.4 Packing group:not applicable

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 statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements: P273 Avoid release to the environment.

P501 Dispose of contents/ container to an approved

waste disposal plant.

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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:

R34 Causes burns.

R37 Irritating to respiratory system.

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

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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