

TRIGARD 75

Version 7 - This version replaces all previous versions.

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

1.1 Product identifier

Product name : TRIGARD 75

Design code : A6808A

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
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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

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008

Hazard statements	: H412	Harmful to aquatic life with long lasting effects.
Precautionary statements	: P102 P270 P391 P501	Keep out of reach of children. Do not eat, drink or smoke when using this product. Collect spillage. Dispose of contents/ container to an approved waste disposal plant.

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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

R-phrase(s) : R52/53 Harmful 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.

2.3 Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration
cyromazine	66215-27-8 266-257-8	-	Aquatic Chronic2; H411	75 % W/W
silicon dioxide, chemically prepared	112926-00-8 7631-86-9 231-545-4	-	-	5 - 10 % W/W
naphthalene-sulfonic acids, polymers with formaldehyde and sulfonated phenol, sodium salts	67784-97-8	Xi R36 R52/53	Eye Irrit.2; H319 Aquatic Chronic3; H412	5 - 10 % W/W
sodium dodecyl sulphate	151-21-3 68585-47-7 205-788-1	Xi R38 R41	Skin Irrit.2; H315 Eye Dam.1; H318	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.

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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.
- 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.

Avoid dust formation.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

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.

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SECTION 7. HANDLING AND STORAGE

7.1 Precautions for 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.

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

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 uses

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 exposure limit	Source
silicon dioxide, chemically prepared	4 mg/m ³	8 h TWA	SUVA
	10 mg/m ³	8 h TWA	ACGIH
	3,000 ppm	IDLH	NIOSH
	4 mg/m ³	8 h TWA	DFG
	2.4 mg/m ³ (Respirable dust) 6 mg/m ³ (Inhalable fraction)	8 h TWA 8 h TWA	UK HSE UK HSE
cyromazine	3 mg/m ³	8 h TWA	SYNGENTA

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 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.
- 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 : solid
- Form : powder
- Colour : white to tan
- Odour : no data available
- Odour Threshold : no data available
- pH : 6 - 10 at 1 % w/v
- Melting point/range : no data available
- Boiling point/boiling range : no data available
- Flash point : no data available
- Evaporation 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 : no data available
- Solubility in other solvents : no data available
- Partition coefficient:
n-octanol/water : no data available
- Autoignition temperature : 250 °C

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

9.2 Other information

Minimum ignition temperature : 800 °C
Dust explosion class : Forms flammable dust clouds.
Minimum ignition energy : 0.1 - 0.3 J
Bulk density : 0.30 - 0.40 g/cm³
Miscibility : Miscible
Surface tension : 64.4 mN/m at 20 °C
: 52.4 mN/m at 20 °C
Burning number : 2 at 20 °C
: 3 at 100 °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 rat, > 2,000 mg/kg
Acute inhalation toxicity : LC50 rat, > 2,000 mg/m³, 4 h
Acute dermal toxicity : LD50 rat, > 2,000 mg/kg
Skin corrosion/irritation : rabbit: Non-irritating

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Serious eye damage/eye irritation	:	rabbit: Non-irritating
Respiratory or skin sensitization	:	guinea pig: not sensitizing
Germ cell mutagenicity cyromazine	:	Did not show mutagenic effects in animal experiments.
Carcinogenicity cyromazine	:	Did not show carcinogenic effects in animal experiments.
Teratogenicity cyromazine	:	Did not show teratogenic effects in animal experiments.
Reproductive toxicity cyromazine	:	Did not show reproductive toxicity effects in animal experiments.
STOT - repeated exposure cyromazine	:	No adverse effect has been observed in chronic toxicity tests.

SECTION 12. ECOLOGICAL INFORMATION**12.1 Toxicity**

Toxicity to fish	:	LC50 <i>Oncorhynchus mykiss</i> (rainbow trout), > 100 mg/l , 96 h
Toxicity to aquatic invertebrates	:	EC50 <i>Daphnia magna</i> Straus, 90 mg/l , 48 h
Toxicity to aquatic plants	:	ErC50 <i>Pseudokirchneriella subcapitata</i> (green algae), 110 mg/l , 72 h

12.2 Persistence and degradability

Stability in water cyromazine	:	Degradation half life: 94 - 254 d Persistent in water.
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12.3 Bioaccumulative potential

cyromazine	:	Does not bioaccumulate.
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12.4 Mobility in soil

cyromazine	:	Cyromazine has low to high mobility in soil
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12.5 Results of PBT and vPvB assessment

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cyromazine : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
This substance is not considered to be very persistent nor very bioaccumulating (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 regulations.

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 applicable
14.2 UN proper shipping name: not applicable
14.3 Transport hazard class(es): not applicable
14.4 Packing group: not applicable
14.5 Environmental hazards: not applicable

Sea transport (IMDG)

Not dangerous goods

14.1 UN number: not applicable
14.2 UN proper shipping name: not applicable
14.3 Transport hazard class(es): not applicable
14.4 Packing group: not applicable
14.5 Environmental hazards: not applicable

Air transport (IATA-DGR)

Not dangerous goods

14.1 UN number: not applicable
14.2 UN proper shipping name: not applicable
14.3 Transport hazard class(es): not applicable
14.4 Packing group: not applicable

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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-Labeling

Signal word	:	Warning	
Hazard statements	:	H303 H412	May be harmful if swallowed. Harmful to aquatic life with long lasting effects.
Precautionary statements	:	P102 P270 P391 P501	Keep out of reach of children. Do not eat, drink or smoke when using this product. Collect spillage. 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.
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:

R36	Irritating to eyes.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
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.

H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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