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

#### 1.1 Product identifier

Product name : TRAXOS 050 EC

Design code : A14298H

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

Use : Herbicide

# 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 irritation

Skin sensitisation

Category 2
Sub-category
1A

Chronic aquatic toxicity

H315

Category 2
H317

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

R38: Irritating to skin.

R43: May cause sensitisation by skin contact.

R51/53: 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 : H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H411 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:

- pinoxaden
- clodinafop-propargyl
- cloquintocet-mexyl

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

Symbol(s)



Dangerous for the environment



Irritant

R-phrase(s) : R38 Irritating to skin.

R43 May cause sensitisation by skin contact.

R51/53 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.

Hazardous components which must be listed on the label:

clodinafop-propargyl

pinoxaden

cloquintocet-mexyl

## 2.3 Other hazards

None known.

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#### **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
tris(2-ethylhexyl) phosphate	78-42-2 201-116-6	Xi R38	-	30 - 40 % W/W
solvent naphtha (petroleum), highly arom.	64742-94-5 265-198-5 922-153-0 01-2119451097-39 -0002	Xn, N R51/53 R65 R66	Asp. Tox.1; H304 Aquatic Chronic2; H411	25 - 35 % W/W
2-methylpentan e-2,4-diol	107-41-5 203-489-0 01-2119539582-35 -0000	Xi R36/38	Skin Irrit.2; H315 Eye Irrit.2; H319	15 - 25 % W/W
pinoxaden	243973-20-8	Xn R20 R36/37/38 R43 R52/53	Acute Tox.4; H332 Skin Irrit.2; H315 Skin Sens.1; H317 Eye Irrit.2; H319 STOT SE3; H335 Aquatic Chronic3; H412	2.6 % W/W
clodinafop-prop argyl	105512-06-9	Xn, N R22 R43 R48/22 R50/53	Acute Tox.4; H302 Skin Sens.1; H317 STOT RE2; H373 Aquatic Acute1; H400 Aquatic Chronic1; H410	2.6 % W/W
clo- quintocet-mexyl	99607-70-2 01-2119381871-32 -0000 01-2119387592-28 -0000	Xi, N R43 R50/53	Skin Sens.1; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410	0.6 % 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: contains petroleum distillates and/or aromatic

solvents.

## 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Aspiration may cause pulmonary oedema and pneumonitis.

# 4.3 Indication of any immediate medical attention and special treatment needed

Medical advice : There is no specific antidote available.

Treat symptomatically.

Do not induce vomiting: contains petroleum distillates and/or aromatic

solvents.

#### **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.

#### 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
clodinafop-propargyl	1 mg/m3	8 h TWA	SYNGENTA
cloquintocet-mexyl	10 mg/m3	8 h TWA	SYNGENTA
solvent naphtha (petroleum), highly arom.	15 ppm, 100 mg/m3	8 h TWA	SUPPLIER
pinoxaden	0.1 mg/m3	Ceiling Limit Value	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.

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 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

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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: impervious protective suit

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1 Information on basic physical and chemical properties

Physical state : liquid Form : liquid clear

Colour : light yellow to orange brown

Odour : sweetish

Odour Threshold : no data available pH : 4.9 at 1 % w/v Melting point/range : no data available Boiling point/boiling range : no data available

Flash point : 102 °C at 101.5 kPa Pensky-Martens c.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 vapour density : no data available
Density : 0.969 g/cm3 at 20 °C
Solubility in other solvents : no data available

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

n-octanol/water

Auto-ignition temperature : 390 °C

Thermal decomposition : no data available Viscosity, dynamic : 47 mPa.s at 20 °C : 21 mPa.s at 40 °C

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

9.2 Other information

Miscibility : Miscible

Surface tension : 29.7 mN/m at 20 °C

#### **SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity

No information available.

10.2 Chemical stability

No information available.

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# 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, > 2,000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate rat, > 5 mg/l, 4 h

Derived from components.

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

Skin corrosion/irritation : Rabbit: Mildly irritating

Serious eye damage/eye

irritation

Rabbit: Moderately irritating

Respiratory or skin sensiti-

sation

: Buehler Test guinea pig: A skin sensitizer in animal tests.

Germ cell mutagenicity

pinoxaden : Did not show mutagenic effects in animal experiments. clodinafop-propargyl : Did not show mutagenic effects in animal experiments.

cloquintocet-mexyl : Did not show mutagenic effects in animal experiments.

Carcinogenicity

pinoxaden : Did not show carcinogenic effects in animal experiments. clodinafop-propargyl : Did not show carcinogenic effects in animal experiments.

cloquintocet-mexyl : Did not show carcinogenic effects in animal experiments.

Teratogenicity

clodinafop-propargyl : Did not show teratogenic effects in animal experiments.

Reproductive toxicity

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

clodinafop-propargyl : Did not show reproductive toxicity effects in animal experiments. cloquintocet-mexyl : Did not show reproductive toxicity effects in animal experiments.

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STOT - repeated exposure

pinoxaden : No adverse effect has been observed in chronic toxicity tests. clodinafop-propargyl : No adverse effect has been observed in chronic toxicity tests.

cloquintocet-mexyl : No adverse effect has been observed in chronic toxicity tests.

Aspiration toxicity

solvent naphtha (petrole- : The substance or mixture is known to cause human aspiration toxicity

um), highly arom. hazards or has to be regarded as if it causes a human aspiration toxicity

hazard.

#### **SECTION 12: ECOLOGICAL INFORMATION**

# 12.1 Toxicity

Toxicity to fish : LC50 Oncorhynchus mykiss (rainbow trout), 17 mg/l, 96 h

Based on test results obtained with similar product.

Toxicity to aquatic inverte-

brates

: EC50 Daphnia magna (Water flea), 2.7 mg/l, 48 h

Toxicity to aquatic plants : EbC50 Pseudokirchneriella subcapitata (green algae), 7.1 mg/l, 72 h

: ErC50 Pseudokirchneriella subcapitata (green algae), 58.0 mg/l, 72 h

# 12.2 Persistence and degradability

**Biodegradability** 

pinoxaden : Not readily biodegradable. clodinafop-propargyl : Not readily biodegradable. cloquintocet-mexyl : Not readily biodegradable.

Stability in water

pinoxaden : Degradation half life: 0.3 d

Not persistent in water.

clodinafop-propargyl : Degradation half life: < 1 d at 20 °C

Not persistent in water.

cloquintocet-mexyl : Degradation half life: 0.4 d

Not persistent in water.

Stability in soil

pinoxaden : Degradation half life: 0.1 - 1.8 d

Not persistent in soil.

clodinafop-propargyl : Degradation half life: < 0.5 d

Not persistent in soil.

cloquintocet-mexyl : Degradation half life: 2.4 d

Not persistent in soil.

#### 12.3 Bioaccumulative potential

pinoxaden : Low bioaccumulation potential.

clodinafop-propargyl : Does not bioaccumulate. cloquintocet-mexyl : Does not bioaccumulate.

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# 12.4 Mobility in soil

pinoxaden : Pinoxaden has medium mobility in soil.

clodinafop-propargyl : Clodinafop-propargyl has low mobility in soil.

cloquintocet-mexyl : Cloquintocet-mexyl is immobile in soil.

#### 12.5 Results of PBT and vPvB assessment

2-methylpentane-2,4-diol : 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).

pinoxaden : 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).

clodinafop-propargyl : 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).

cloquintocet-mexyl : 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.

(CLODINAFOP-PROPARGYL)

**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.

(CLODINAFOP-PROPARGYL)

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.

(CLODINAFOP-PROPARGYL)

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







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Signal word : Warning

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or

repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : P102 Keep out of reach of children.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/

spray.

P280 Wear protective gloves/ protective clothing.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P314 Get medical advice/ attention if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P391 Collect spillage.

P501 Dispose of contents/ container to an approved

landfill.

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:

- pinoxaden
- clodinafop-propargyl
- cloquintocet-mexyl

## 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:

R20 Harmful by inhalation. R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R43 May cause sensitisation by skin contact.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swal-

lowed.

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

aquatic environment.

R51/53 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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R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

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

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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