

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name: PONYTAIL

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

Relevant identified uses of the substance or mixture

Plant protection product for professional use. Agriculture.

Fungicide

1.3 Details of the supplier of the safety data sheet

Address

YC Agro Limited- United Kingdom

Located at Mynshull House, 78 Churchgate, Stockport, Cheshire, England SK1 1YJ, UK

Tel No.: +44 7548 954737

E-mail: director@ycagro.com, ycagro@yanchengchem.com

1.4 Emergency telephone number

For further advice for medical professionals:

The National Poisons Information Service: +44 7548 954737

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Hazardous to the aquatic environment - Chronic 1

Skin sensitisation, hazard category 1

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Pictograms



GHS07



GHS09

Signal word

Warning

Hazard Statement (s)

H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P102 Keep out of reach of children
P261 Avoid breathing 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 a rash occurs: Get medical advice/attention
P362+P364 Take off contaminated clothing and wash before reuse
P391 Collect spillage
P501 Dispose of contents / container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

Supplementary statements

EUH066 Repeated exposure may cause skin dryness or cracking
EUH401 To avoid risks to human health and the environment comply with the instructions for use

3. COMPOSITION INFORMATION

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients.

No	Substance name	CAS/EC/Index/REACH no	Classification (EC)1272/2008 (CLP)	Concentration(%)
1	Trinexapac-ethyl (ISO)	95266-40-3 - - -	Skin Sens. 1B; H317 STOT RE 2; H373 (Gastrointestinal tract) Aquatic Chronic 1; H410 M-Factor (Chronic aquatic toxicity): 1	>=25 -< 30
2	poly(oxy-1,2-ethanediyl), alphaisotridecyl- omega-hydroxy-	9043-30-5 500-027-2 - -	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>=20 -< 25

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.

If inhaled

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.

In case of 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.

In case of 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.

If swallowed

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

Nonspecific.

No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

There is no specific antidote available.

Treat symptomatically

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media - large fires

Alcohol-resistant foam

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting

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.

Flash back possible over considerable distance.

5.3 Advice for firefighters

Special protective equipment for firefighters

Wear full protective clothing and self-contained breathing apparatus.

Further information

Do not allow run-off from fire fighting to enter drains or water courses.

Cool closed containers exposed to fire with water spray.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8.

Keep people away from and upwind of spill/leak.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Remove all sources of ignition.

Pay attention to flashback.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform respective authorities.

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).

Clean contaminated surface thoroughly.

Clean with detergents. Avoid solvents.

Retain and dispose of contaminated wash water.

6.4 Reference to other sections

For disposal see section 13. Information regarding personal protective measures, see Section 8. Information regarding safe handling, see Section 7.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes.

When using do not eat, drink or smoke.

Use only in an area containing flame proof equipment.

Take precautionary measures against static discharges.

For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep containers tightly closed in a dry, cool and well ventilated place. Keep out of the reach of children. Keep away from combustible material. Keep in an area equipped with sprinklers. Keep away from food, drink and animal feeding stuffs. No smoking.

Further information on storage stability

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)

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters
trinexapac-ethyl (ISO)	95266-40-3	TWA	5 mg/m ³

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
fatty acids, C8-10, Me esters	Workers	Dermal	Long-term systemic effects	103.6 mg/kg
	Workers	Inhalation	Long-term systemic effects	73.6 mg/m ³
	Consumers	Oral	Long-term systemic effects	3.7 mg/kg
castor oil, ethoxylated	Consumers	Dermal	Long-term systemic effects	51.8 mg/kg
	Consumers	Inhalation	Long-term systemic effects	12.86 mg/m ³
	Workers	Inhalation	Long-term systemic effects	16.4 mg/m ³
	Workers	Dermal	Long-term systemic effects	4.67 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2.9 mg/m ³
	Consumers	Dermal	Long-term	1.67 mg/kg

			systemic effects	bw/day
	Consumers	Oral	Long-term systemic effects	1.67 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
fatty acids, C8-10, Me esters	Fresh water	0.0011 mg/l
	Fresh water sediment	0.0265 mg/kg
	Marine water	0.00011 mg/l
	Marine sediment	0.00265 mg/kg
	Sewage treatment plant	3.92 mg/l
	Soil	0.00871 mg/kg
castor oil, ethoxylated	Fresh water sediment	0.0129 mg/kg dry weight (d.w.)
	Marine sediment	0.00129 mg/kg dry weight (d.w.)
	Soil	0.00258 mg/kg dry weight (d.w.)

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.

Maintain air concentrations below occupational exposure standards.

Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

Eye protection

No special protective equipment required.

Hand protection

Material: Nitrile rubber

Break through time: > 480 min

Glove thickness: 0.5 mm

Remarks:

Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Remove and wash contaminated clothing before re-use.

Wear as appropriate: Impervious clothing

Respiratory protection

No personal respiratory protective equipment normally required.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid
Odour	Brown orange
Odour threshold	unpleasant
pH	2-6
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	80 °C (Pensky-Martens closed up)
Evaporation rate	No data available
Flammability (solid,gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Density	0.96-1.00 g/ml at 20 °C
Solubility (ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	250 °C
Decomposition temperature	No data available
Viscosity, dynamic	10.01 mPa.s (20 °C), 5.45 mPa.s (40 °C)
Explosive properties	Not explosive
Oxidizing properties	Not classified as oxidizing

10. STABILITY AND REACTIVITY

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

No decomposition if used as directed.

10.5 Incompatible materials

None known

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on likely routes of exposure:

Ingestion

Inhalation

Skin contact

Eye contact

Acute toxicity

Product:

Acute oral toxicity:

LD50 (Rat, male and female): > 5,000 mg/kg

Acute inhalation toxicity:

LC50 (Rat, male and female): > 2.51 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity:

LD50 (Rat, male and female): > 4,000 mg/kg

Assessment: The substance or mixture has no acute dermal toxicity

Components:

trinexapac-ethyl (ISO):

Acute oral toxicity:

LD50 (Rat, male and female): 4,460 mg/kg

Acute inhalation toxicity:

LC50 (Rat, male and female): > 5.69 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity:

LD50 (Rat, male and female): > 4,000 mg/kg

Assessment: The substance or mixture has no acute dermal toxicity

poly(oxy-1,2-ethanediyl), alpha-isotridecyl-omega-hydroxy-:

Acute oral toxicity:

LD50 (Rat): 1,940 mg/kg

Skin corrosion/irritation

Product:

Species : Rabbit

Result : No skin irritation

Species : Rabbit

Result : Repeated exposure may cause skin dryness or cracking.

Components:

trinexapac-ethyl (ISO):

Species : Rabbit

Result : No skin irritation

Serious eye damage/eye irritation

Product:

Species : Rabbit

Result : No eye irritation

Components:

trinexapac-ethyl (ISO):

Species : Rabbit

Result : No eye irritation

poly(oxy-1,2-ethanediyl), alpha-isotridecyl-omega-hydroxy-:

Species : Rabbit

Result : Irreversible effects on the eye

Respiratory or skin sensitisation

Product:

Species : Guinea pig

Result : May cause sensitisation by skin contact.

Components:

trinexapac-ethyl (ISO):

Test Type : Local lymph node assay (LLNA)

Species : Mouse

Result : Did not cause sensitisation on laboratory animals

Germ cell mutagenicity

Components:

trinexapac-ethyl (ISO):

Germ cell mutagenicity-Assessment: Animal testing did not show any mutagenic effects

poly(oxy-1,2-ethanediyl), alpha-isotridecyl-omega-hydroxy-:

Germ cell mutagenicity-Assessment: In vitro tests did not show mutagenic effects

Carcinogenicity

Components:

trinexapac-ethyl (ISO):

Carcinogenicity -Assessment: No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Components:

trinexapac-ethyl (ISO):

Reproductive toxicity -Assessment: No toxicity to reproduction

STOT - repeated exposure

Components:

trinexapac-ethyl (ISO):

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Product:

Toxicity to fish :

LC50 (Oncorhynchus mykiss (rainbow trout)): 24 mg/l

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna Straus): 2.9 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic plants:

ErC50 (Anabaena flos-aquae (cyanobacterium)): 8.3 mg/l

Exposure time: 96 h

ErC50 (Lemna gibba (gibbous duckweed)): 55 mg/l

Exposure time: 7 d
NOEC (Anabaena flos-aquae (cyanobacterium)): 8.0 mg/l
End point: Growth rate
Exposure time: 96 h
NOEC (Lemna gibba (gibbous duckweed)): 8.0 mg/l
End point: Frond growth
Exposure time: 7 d

Components:

trinexapac-ethyl (ISO):

Toxicity to fish :
LC50 (Oncorhynchus mykiss (rainbow trout)): 68 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:
LC50 (Americamysis): 6.5 mg/l
Exposure time: 96 h

Toxicity to algae/aquatic plants:
ErC50 (Raphidocelis subcapitata (freshwater green alga)): 24.5 mg/l
Exposure time: 96 h
NOEC (Raphidocelis subcapitata (freshwater green alga)): 8.0 mg/l
End point: Growth rate
Exposure time: 96 h
ErC50 (Myriophyllum spicatum (Eurasian watermilfoil)): 1.2 mg/l
Exposure time: 14 d
EC10 (Myriophyllum spicatum (Eurasian watermilfoil)): 0.011 mg/l
End point: Growth rate
Exposure time: 14 d

Toxicity to microorganisms :
EC50 (activated sludge): > 100 mg/l
Exposure time: 3 h

Toxicity to fish (Chronic toxicity): NOEC: 0.41 mg/l
Exposure time: 35 d
Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):
NOEC: 2.4 mg/l
Exposure time: 21 d

Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity): 1

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

poly(oxy-1,2-ethanediyl), alpha-isotridecyl-omega-hydroxy-:

Toxicity to fish :

LC50 (Danio rerio (zebra fish)): > 1 - 10 mg/l

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (Water flea)): 5 - 10 mg/l

Exposure time: 48 h

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Components:

trinexapac-ethyl (ISO):

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 3.9 - 5.5 d

Remarks: Product is not persistent.

12.3 Bioaccumulative potential

Components:

trinexapac-ethyl (ISO):

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: octanol/water:

log Pow: -2.1 (25 °C)

log Pow: -0.29 (25 °C)

log Pow: 1.5 (25 °C)

12.4 Mobility in soil

Components:

trinexapac-ethyl (ISO):

Distribution among environmental compartments:

Remarks: Moderately mobile in soils

Stability in soil :

Dissipation time: < 0.2 d

Percentage dissipation: 50 % (DT50)

Remarks: Product is not persistent.

12.5 Results of PBT and vPvB assessment

Product:

Assessment :

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

trinexapac-ethyl (ISO):

Assessment :

This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

Product:

Endocrine disrupting potential:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

13. DISPOSAL CONSIDERATION

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.

14. TRANSPORT INFORMATION

14.1 UN number

ADR : UN 3082

RID : UN 3082

IMDG : UN 3082

IATA : UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRINEXAPAC-ETHYL)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRINEXAPAC-ETHYL)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRINEXAPAC-ETHYL)

IATA : Environmentally hazardous substance, liquid, n.o.s. (TRINEXAPAC-ETHYL)

14.3 Transport hazard class(es)

ADR : 9

RID : 9

IMDG : 9

IATA : 9

14.4 Packing group

ADR

Packing group : III

Classification Code : M6

Hazard Identification Number : 90

Labels : 9

Tunnel restriction code : (-)

RID

Packing group : III

Classification Code : M6

Hazard Identification Number : 90

Labels : 9

IMDG

Packing group : III

Labels : 9

EmS Code : F-A, S-F

IATA (Cargo)

Packing instruction (cargo aircraft): 964

Packing instruction (LQ) : Y964

Packing group : III

Labels : Miscellaneous

IATA (Passenger)

Packing instruction (passenger aircraft): 964

Packing instruction (LQ) : Y964

Packing group : III

Labels : Miscellaneous

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII):

Conditions of restriction for the following entries should be considered: Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast): Not applicable

UK REACH List of substances subject to authorisation (Annex XIV): Not applicable

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation: Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E1	ENVIRONMENTAL HAZARDS	Quantity 1	Quantity 2
		100 t	200 t

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications..

16. OTHER INFORMATION

Full text of H-Statements

H302 : Harmful if swallowed.

H317 : May cause an allergic skin reaction.

H318 : Causes serious eye damage.

H373 : May cause damage to organs through prolonged or repeated exposure.

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

H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage

Skin Sens. : Skin sensitisation

STOT RE : Specific target organ toxicity - repeated exposure

Disclaimer:

The manufacture provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. The manufacture makes no representations or express or implied, including without limitation any warranties of merchantability fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, the manufacture will not be responsible for damages resulting from use of or reliance upon this information.
