

syngenta.

SCITEC® is an emulsifiable concentrate containing 250g/I (25.5% w/w) trinexapac-ethyl per litre.



FOR USE ONLY AS AN AGRICULTURAL GROWTH REGULATOR

SCITEC® is a growth regulator for winter and spring wheat, winter and spring barley, winter and spring oats, durum wheat, rve. triticale, and grassland (seed cross).



PLEASE SEE ACCOMPANYING LEAFLET FOR PRODUCT USE DETAILS.

IN CASE OF TOXIC OR TRANSPORT EMERGENCY RING +44 (0) 1484 538444 ANYTIME (24HR).

PROTECT FROM FROST SHAKE WELL BEFORE USE

Authorisation Holder	Marketing Company
Syngenta UK Ltd	Syngenta Ireland Limited
	Block 6, Cleaboy Business Park,
Cambridge CB21 5XE	Old Kilmeaden Road, Waterford, Ireland
Tel: +44 (0) 1223 883400	Tel: (051) 377203

Product names marked ® or ™, the ALLIANCE FRAME —
the SYNGENTA Logo and the PURPOSE ICON
are Trademarks of a Syngenta Group Company

1 Litre

FOR PROFESSIONAL LISE ONLY

To avoid risks to human health and the environment comply with the instructions for use.

SCITEC is an emulsifiable concentrate containing 250g/l (25.5% w/w) trinexapac-ethyl per litre.

Warning

May cause an allergic skin reaction.

May cause damage to organs (Gastrointestinal tract) through prolonged or repeated exposure.

Very toxic to aquatic life with long lasting effects.

Repeated exposure may cause skin dryness or cracking.

Do not breathe mist or vanours

Wear protective gloves.

Get medical advice/ attention if you feel unwell.

If skin irritation or rash occurs: Get medical advice/ attention.

Take off contaminated clothing and wash it before reuse.

Collect spillage.

Dispose of contents/container to a licensed hazardous-waste disposal contractor

or collection site except for empty triple rinsed clean containers which can be disposed of as non-hazardous waste.

rdous waste. **PCS No.** 06701 **IIFI**: 13Y2-E09F-G00U-UJ3U

CONDITIONS OF USE

FOR LISE ONLY AS AN AGRICULTURAL PLANT GROWTH REGULATOR

1					
	Crop	Max individual dose I/ha		Max. total dose I/ha per crop/year	Latest time of application
l	Winter wheat	0.4	аррисацииз	0.4	Before flag leaf sheath extending stage (GS 41)
ı		0.4	-	0.4	Delote hay leaf sheath extending stage (05 41)
ł	Winter barley	0.6	-	0.6	
ľ	Winter and spring oats	0.4	-	0.4	Before second node detectable stage (GS 32)
1	Grassland (seed crop)	0.8	-	0.8	
l	Spring wheat	0.4	-	0.4	Before third node detectable stage (GS 33)
1	Spring barley	0.5	-	0.5	
1	Durum wheat me triticals	0.4		0.4	

Additional Safety Information.

(a) Operator Protection

AVOID CONTACT WITH SKIN AND EYES.

WEAR EYE/FACE PROTECTION when handling the concentrate.
FOR USE BY TRACTOR MOUNTED/TRAILLED SPRAYER ONLY.

(b) Environmental Protection

Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

(c) Storage and disposal.

RINSE CONTAINER THOROUGHLY, by using an integrated pressure rinsing device or manually rinsing three times. Add washings to

the sprayer at he time of filling and dispose of safely.

Do not re-use container for any other purpose and dispose of safely. (d) Restrictions

Apply SCITEC only to healthy, actively growing crops.

Do not apply during periods of frosty weather or when frost is imminent.

Do not apply SCITEC to crops that are stressed by severe weather conditions, drought, frost, disease, insect damage, nutritional deficiency, etc.

Do not apply if rain is expected or if the crop is wet. Avoid spray drift on to neighbouring crops. XXXX IBEL/11B PPE XXXXXXX 11/2016

DIDECTIONS FOR USE

PROPERTIES OF SCITED

SCITEC® is a growth regulator for crop height reduction, lodging prevention and yield protection in all varieties of winter and spring wheat, winter and spring barley and winter and spring oats, durum wheat. rve. triticale and grassland (seed crops).

Treatment may lead to ears remaining erect through to harvest.

MIXING AND SPRAYING

Make sure the sprayer is set to give an even application at the correct volume.

Fill the spray tank with half the required volume of clean water and start agitation. Add the required amount of SCITEC, agitate, and continue agitation whilst adding the rest of the water.

Agitate the mixture thoroughly before use and continue agitation during spraying.

Thoroughly wash all spray and measuring equipment with water and a wetting agent immediately after use

APPLICATION

Spray volume

Apply SCITEC in a minimum of 200 l/ha of water. Increased penetration will be obtained with an increase in water volume but the necessity for this will be dependent on crop growth stage and habit.

Spray nozzles

A medium spray quality is preferred for application of SCITEC. A spray pressure of 2-3 bar is recommended.

Spraying

Take particular care to avoid overlapping of spray swaths.

Apply only using a ground sprayer.

RECOMMENDATIONS

Winter Wheat

Timing and dose

Apply at 0.4 l/ha from the leaf sheath erect stage (GS 30) but before the flag leaf extending stage (GS 41).

Winter Barley

Timing and dose

Apply at 0.4 l/ha from the leaf sheath erect stage (GS 30) but before the third node detectable stage (GS 33).

O

Apply at 0.6 l/ha from the flag leaf just visible stage (GS 37) but before the flag leaf extending stage (GS 41).

Spring Barley

Timing and dose

Apply at 0.5 l/ha from the leaf sheath erect stage (GS 30) but before the third node detectable stage (GS 33).

Spring Wheat

Timing and dose

Apply at 0.4 l/ha from the leaf sheath erect stage (GS 30) but before the third node detectable stage (GS 33).

Winter and Spring Oats

Timing and dose

Apply at 0.4 l/ha from the leaf sheath erect stage (GS 30) but before the second node detectable stage (GS 32).

Rye, Triticale and Durum Wheat

Timing and dose

Apply at 0.4 l/ha from the leaf sheath erect stage (GS 30) but before the third node detectable stage (GS 33).

Grassland (seed crops only)

Timing and dose

Apply at 0.8 l/ha from the leaf sheath erect stage (GS 30) but before the second node detectable stage (GS 32).

CROP FAILURE

In the event of crop failure for any reason, cereals and oilseed rape can be planted in soil treated with SCITEC. Due to reduced activity via the root system and to its rapid degradation in soil, no problems with following crops are foreseen for this product.

SAFETY DATA SHEET v4.0

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1 1 Product identifier

Trade name: SCITEC Design code: A7725M

Product Registration number: PCS 06701

Unique Formula Identifier(LIFI): 13Y2-F09F-G00LI-LL3LL

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

Use of the Substance/Mixture: Plant growth regulator Recommended restrictions on use: professional use

1.3 Details of the supplier of the safety data sheet

Company: Syngenta Ireland Limited, Block 6 Cleaboy Business Park, Old Kilmeaden Road, Waterford, Ireland

Telephone: (051) 377203

Telefax: (051) 354748

E-mail address of person responsible for the SDS: cropsales.ie@syngenta.com

1.4 Emergency telephone number

Emergency telephone number: Syngenta +44 1484 538444

Poisons Information Centre of Ireland

Members of Public: +353 (1) 809 2166 (8 00 a m to 10 00 p m 7 days a week)

Healthcare Professionals: +353 (1) 809 2566 (24-hour service)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation. Category 1 - H317: May cause an allergic skin reaction.

Specific target organ toxicity - repeated exposure. Category 2. Gastrointestinal tract - H373. May cause

damage to organs through prolonged or repeated exposure.

Long-term (chronic) aguatic hazard. Category 1 - H410: Very toxic to aguatic life with long lasting effects.

2.2 Lahel elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





		•
Signal Word	Warning	
Hazard	H317	May cause an allergic skin reaction.
Statements	H410	Very toxic to aquatic life with long lasting effects.
	H373	May cause damage to organs (Gastrointestinal tract) through pro- longed or repeated exposure.
Supplemental Hazard Statements	EUH066	Repeated exposure may cause skin dryness or cracking.

Precautionary	P260	Do not breathe mist or vapours.
Statements	P260 Do not breathe mist or vapours. P280 Wear protective gloves. P314 Get medical advice/ attention if you feel unwell. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. Collect spillage. P501 Dispose of contents/container to a licensed hazardouswaste	
	P314	280 Wear protective gloves. 314 Get medical advice/ attention if you feel unwell. 333+P313 If skin irritation or rash occurs: Get medical advice/ attention. 362+P364 Take off contaminated clothing and wash it before reuse. Collect spillage. 501 Dispose of contents/container to a licensed hazardouswaste disposal contractor or collection site except for empty triple rinsections.
	P333+P313	If skin irritation or rash occurs: Get medical advice/ attention.
	P362+P364	Take off contaminated clothing and wash it before reuse.
	P391	Collect spillage.
	P501	Dispose of contents/container to a licensed hazardouswaste
		disposal contractor or collection site except for empty triple rinsed
		clean containers which can be disposed of as nonhazardous waste.

Hazardous components which must be listed on the label:

trinexanac-ethyl (ISO)

Additional Labelling

FUH401 To avoid risks to human health and the environment, comply with the instructions for use

2.3 Other hazards

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disfunding 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.

Toxicological information: 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.

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Components

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
trinexapac-ethyl (ISO)	95266-40-3 607-752-00-4	Skin Sens. 1B; H317 STOT RE 2; H373 (Gastrointestinal tract) Aquatic Chronic 1; H410 M-Factor (Chronic aquatic toxicity): 1	>= 25 - < 30
poly(oxy1,2ethanediyl), alpha isotridecyl-o-mega hydroxy	9043-30-5 500-027-2	Acute Tox.4; H302, Eye Dam. 1; H318 Aquatic Chronic 3; H412 Acute toxicity estimate Acute oral toxicity: 1,940 mg/kg	>= 20 - < 25

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
toluene	108-88-3 203-625- 9 601-021-00-3 01-2119471310- 51-xxxx	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Repr. 2; H3161 d STOT SE 3; H336 (Central nervous system) STOT RE 2; H373 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>= 0.1 - < 0.25

For explanation of abbreviations see section 16.

4 FIRST-AID MEASURES

Description of first aid measures

General advice: Have the product container, label or Safety Data Sheet with you when calling the Syngenta 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; 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

Treatment: There is no specific antidote available. Treat symptomatically. Do not induce vomiting contains petroleum distillates and/or aromatic solvents.

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 or Water spray.

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 exproved to fire with water spray.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: 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

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 material for containment and cleaning up

solvents. Retain and dispose of contaminated wash water.

Methods for cleaning up: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sard, earth, diatomaçeous earth, vermiculite) and place in container for disposal according to local (pational regulations (see section 13). Clean contaminated surface thoroughly, Clean with detergents. Avoid

6.4 Reference to other sections

Refer to disposal considerations listed in section 13.. Refer to protective measures listed in sections 7 and 8.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling: No special protective measures against fire required. Avoid contact with skin and eves. When using do not eat, drink or smoke, For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: 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. 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)

Specific 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	Control parameters	Basis
		(Form of exposure)		
trinexapac-ethyl (ISO)	95266-40-3	TWA	5 mg/m ³	Syngenta
toluene	108-88-3	TWA	50 ppm 192 mg/m3	2006/15/EC

Components	CAS-No.	Value type	Control parameters	Basis
		(Form of exposure)		
Further information: Indicative	, Identifies the possibility	of significant uptake through the	e skin	
		STEL	100 ppm 384 mg/m3	2006/15/EC
Further information: Indicative	, Identifies the possibility	of significant uptake through the	e skin	
		OELV - 8 hrs (TWA)	50 ppm 192 mg/m3	IE OEL
Further information: Substanc	es which have the capac	ity to penetrate intact skin when	they come in contact w	ith it, and be
absorbed into the body				
		OELV - 15 min (STEL)	100 ppm 384 mg/m3	IE OEL
Further information: Substanc	es which have the capac	ity to penetrate intact skin when	they come in contact w	ith it, and be
absorbed into the body				

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

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
	Consumers	Dermal	Long-term systemic effects	51.8 mg/kg
	Consumers	Inhalation	Long-term systemic effects	12.86 mg/m ³
castor oil, ethoxylated	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 systemic effects	1.67 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	1.67 mg/kg bw/day
toluene	Workers	Inhalation	Long-term systemic effects	192 mg/m³
	Workers	Dermal	Long-term systemic effects	384 mg/kg
	Workers	Inhalation	Acute local effects	384 mg/m ³
	Workers	Inhalation	Acute systemic effects	384 mg/m³
	Workers	Inhalation	Long-term local effects	192 mg/m ³
	Consumers	Oral	Long-term systemic effects	8.13 mg/kg
	Consumers	Dermal	Long-term systemic effects	226 mg/kg
	Consumers	Inhalation	Acute systemic effects	226 mg/m ³
	Consumers	Inhalation	Acute local effects	226 mg/m ³
	Consumers	Inhalation	Long-term local effects	56.5 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	56.5 mg/m ³

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

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

Substance name	Environmental Compartment	Value
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.)
toluene	Fresh water	0.68 mg/l
	Marine sediment	16.39 mg/kg
	Sewage treatment plant	13.61 mg/l
	Freshwater - intermittent	0.68 mg/l
	Marine water	0.68 mg/l
	Fresh water sediment	16.39 mg/kg
	Soil	2.89 mg/kg

8.2 Exposure controls

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

Eve 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.

The selected protective gloves have to satisfy the specifica-tions of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

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. Environmental exposure controls

Water: 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.

O DUVEICAL AND CHEMICAL DEODEDTIES

9.1 Information on basic physical and chemical properties

Annearance : liquid Colour : brown orange Odour : unpleasant

Odour Threshold · No data available Melting point/range · No data available Boiling point/boiling range · No data available

Flammability · No data available

Upper explosion limit / Upper flammability limit: No data available Lower explosion limit / Lower flammability limit: No data available

Flash point : 80 °C Method: Pensky-Martens closed cup

Auto-ignition temperature: 250 °C

Decomposition temperature : No data available

pH · 2 - 6 Concentration: 1 % w/v

Viscosity, dynamic: 10.01 mPa.s (20 °C), 5.45 mPa.s (40 °C)

Viscosity kinematic No data available Solubility in other solvents: No data available

Partition coefficient: noctanol/water: No data available

Density: 0.96 - 1.00 g/cm3 (20 °C)

9.2 Other information

Explosives: Not explosive

Oxidizing properties: The substance or mixture is not classified as oxidizing.

Evaporation rate: No data available Miscibility with water · Miscible

Surface tension: 28.2 - 28.5 mN/m. 20 °C

10. STABILITY AND REACTIVITY

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

Hazardous reactions: No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid: No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid: None known.

10.6 Hazardous decomposition products

Hazardous decomposition products: No hazardous decomposition products are known.

11 TOYICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on likely routes of exposure: Ingestion Inhalation Skin contact. Eve contact

Acute toxicity

Product:

LD50 (Mouse, male and female): > 5,000 mg/kg Acute oral toxicity:

Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity: LC50 (Rat): > 2.51 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity

LD50 (Bat_male and female): > 4 000 mg/kg Acute dermal toxicity:

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 (Bat_male and female): > 5.69 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

LD50 (Rat): 1.940 mg/kg

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:

Skin corrosion/irritation Product:

Species: Rabbit

Result: No skin irritation Components:

trinexapac-ethyl (ISO): Species: Rabbit

Result: Repeated exposure may cause skin dryness or cracking.

Serious eve damage/eve irritation

Product:

Species: Rabbit Result: No eye irritation

Components:

trinexapac-ethyl (ISO):

Species: Rabbit Result: No eve irritation

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

Species: Rabbit

Result: Irreversible effects on the eve

Respiratory or skin sensitisation

Product:

Species: Guinea nig

Result: The product is a skin sensitiser sub-category 1B

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

toluene:

Reproductive toxicity - Assessment: Some evidence of adverse effects on development, based on anima experiments.

STOT - single exposure

Components:

toluene: Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

STOT - repeated exposure

Components:

trinexapac-ethyl (ISO):

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

toluene:

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure.

category 2.

Aspiration toxicity Components:

toluene:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards Endocrine disrupting properties

Product:

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

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:

Toxicity to algae:

EC50 (Daphnia magna Straus): 2.9 mg/l

Exposure time: 48 h

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

Exposure time: 96 h

ErC50 (Lemna gibba (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:

Toxicity to daphnia and other

aquatic invertebrates:

Toxicity to algae:

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

LC50 (Americamysis): 6.5 mg/l

Exposure time: 96 h

ErC50 (Raphidocelis subcapitata (green algae)): 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

Exposure time: 14 d

EC50 (activated sludge): > 100 mg/l Toxicity to microorganisms:

Exposure time: 3 h NOEC: 0.41 mg/l

Toxicity to fish (Chronic toxicity):

Exposure time: 35 d

Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other

aquatic invertebrates

(Chronic toxicity): NOEC: 2.4 mg/l

Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity): 1

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

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

toluene: Toxicity to fish:

LC50 (Oncorhynchus kisutch (coho salmon)): 5.5 mg/l

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates: FC50 (Ceri

EC50 (Ceriodaphnia dubia (water flea)): 3.78 mg/l

Exposure time: 48 h

Toxicity to fish (Chronic toxicity):

NOEC: 1.39 mg/l

Species: Oncorhynchus kisutch (coho salmon)

Toxicity to daphnia and

other aquatic invertebrates

(Chronic toxicity): NOEC: 0.74 mg/l Exposure time: 7 d

Species: Ceriodaphnia dubia (Water flea)

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.

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

Biodegradability: Result: Readily biodegradable.

toluene:

Biodegradability: Result: Readily biodegradable.

12.3 Bioaccumulative potential

Components:

trinexapac-ethyl (ISO):

Bioaccumulation: Remarks: Does not bioaccumulate.

Partition coefficient: noctanol/water: log Pow: -2.1 (25 °C), log Pow: -0.29 (25 °C), log Pow: 1.5 (25 °C)

toluene:

Bioaccumulation: Remarks: Does not bioaccumulate

12.4 Mobility in soil

trinexanac-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).

toluene:

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 (yPyB).

12.6 Endocrine disrupting properties

Product:

Assessment: 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.

12.7 Other adverse effects

No data available

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.

Waste Code: uncleaned packagings

150110, packaging containing residues of or contaminated by dangerous substances

14 TRANSPORT INFORMATION

14.1 UN number ADR: UN 3082 RID: UN 3082 IMDG: 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)
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: (-)

Remarks: This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids

RID

Packing group: III Classification Code: M6

Hazard Identification Number: 90

Labels: 9

Remarks: This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

IMDG

Packing group: III

Labels: 9

EmS Code: F-A. S-F

Remarks: This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids

IATA (Cargo)

Packing instruction (cargo aircraft): 964

Packing instruction (LQ): Y964

Packing group: III

Labels: Miscellaneous

Remarks: This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids

IATA (Passenger)

Packing instruction (passenger aircraft): 964

Packing instruction (LQ): Y964

Packing group: III

Labels: Miscellaneous

Remarks: This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

14.5 Environmental hazards

ADR

Environmentally hazardous: yes

RID

Environmentally hazardous: yes

IMDG Marine pollutant: ves

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.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. REGULATORY INFORMATION

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

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of majoraccident hazards involving dangerous substances. E1 ENVIRONMENTAL HAZARDS

Other regulations:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

H225: Highly flammable liquid and vapour.

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eve damage.

H336: May cause drowsiness or dizziness.

H361d: Suspected of damaging the unborn child.

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: Chronic aquatic toxicity Asp. Tox.: Aspiration hazard

Asp. Iox.: Aspiration nazard Eye Dam.: Serious eye damage Flam. Liq.: Flammable liquids Repr.: Reproductive toxicity Skin Irrit.: Skin irritation

Skin Sens.: Skin sensitisation

STOT RE: Specific target organ toxicity - repeated exposure STOT SE: Specific target organ toxicity - single exposure

2006/15/EC: Europe. Indicative occupational exposure limit values

IE OEL: Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1

Syngenta: Syngenta Occupational Exposure Limit 2006/15/EC / TWA: Limit Value - eight hours

2006/15/EC / STEL: Short term exposure limit

IE OEL / OELV - 8 hrs (TWA): Occupational exposure limit value (8-hour reference period)

IE OEL / OELV - 15 min (STEL): Occupational exposure limit value (15-minute reference period)

Syngenta / TWA: Time weighted average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS -

Australian Inventory of Chemical Substances: ASTM - American Society for the Testing of Materials: hw - Body weight: CLP - Classification Labelling Packaging Regulation: Regulation (FC) No 1272/2008: CMR - Carringgen, Mutagen or Reproductive Toxicant: DIN - Standard of the German Institute for Standardisation: DSI - Domestic Substances List (Canada): FCHA - European Chemicals Agency: FC-Number - European Community number: FCx - Concentration associated with x% response: FLx - Loading rate associated with x% response: EmS - Emergency Schedule: ENCS - Existing and New Chemical Substances (Japan): FrCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice: IARC - International Agency for Research on Cancer: IATA - International Air Transport Association: IRC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk: IC50 - Half maximal inhibitory concentration: ICAO - International Civil Aviation Organization: IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods: IMO - International Maritime Organization: ISHL - Industrial Safety and Health Law (Japan): ISO - International Organisation for Standardization: KECL - Korea Existing Chemicals Inventory: LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose): MARPOL - International Convention for the Prevention of Pollution from Ships: n.o.s. - Not Otherwise Specified: NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level: NOELB - No Observable Effect Loading Rate: NZIoC - New Zealand Inventory of Chemicals, OECD - Organization for Economic Co-operation and Development, OPPTS - Office of Chemical Safety and Pollution Prevention: PBT - Persistent, Bioaccumulative and Toxic substance: PICCS - Philippines Inventory of Chemicals and Chemical Substances: (Q)SAR - (Quantitative) Structure Activity Relationship: REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals: RID - Regulations concerning the International Carriage of Dangerous Goods by Rail: SADT - Self-Accelerating Decomposition Temperature: SDS - Safety Data Sheet: TCSI - Taiwan Chemical Substance Inventory: TRGS - Technical Rule for Hazardous Substances: TSCA - Toxic Substances Control Act (United States): UN - United Nations: vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Classification procedure:

Skin Sens. 1B H317 Based on product data or assessment STOT RF 2 H373 Calculation method

Aquatic Chronic 1 H410 Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.