

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

1.1 Product Identifier

Product Name: LIFE SCIENTIFIC TRINEX
Product Code: 011-01
UFI Code: JUWT-097V-6005-PKUQ

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

Product Use: Agriculture – Plant Growth Regulator.

1.3 Details of the supplier of the safety data sheet

Company: Life Scientific Ltd,
Block 4,
Belfield Office Park,
Beech Hill Road,
Dublin 4
Ireland
Telephone: +353 (0) 1 2832024
Email: info@lifescientific.com
Web: www.lifescientific.com

1.4 Emergency contact information

In case of Emergency: Tel. NPIC +353 (01) 809 2166 (8.00 a.m. to 10.00 p.m. - Public)
Tel. NPIC +353 (01) 809 2566 (Healthcare Professionals)

Section 2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EU) No. 1272/2008

Skin Sens.	Category 1	H317
Aquatic Chronic	Category 2	H411

2.2 Label Elements

Labelling according to Regulation (EU) 1272/2008

Hazard Pictograms:



Signal Word:

Warning

Hazard Phrases:

H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Phrases:

P102	Keep out of reach of children.
P261	Avoid breathing spray.
P264	Wash hands thoroughly after handling.

P280 Wear protective gloves/clothing
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 hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.
SP1 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).

2.3 Other Hazards

None known

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

No substances fulfil the criteria set out in Annex II, Part A of the REACH Regulation (EC) No 1907/2006.

3.2 Mixtures

Chemical Name	CAS	EC	Classification (Regulation (EC) No 1272/2008)	Concentration (% w/w)
Trinexapac-ethyl	95266-40-3	-	Aquatic Chronic 2; H411	25
Poly(oxy-1,2-ethanediyl), .alpha.-isotridecyl-.omega.-hydroxy	9043-30-5	-	Acute Tox. 4; H302 Eye Dam. 1; H318	20 – 30

Section 4. FIRST AID MEASURES

4.1 Description of first aid measures

General information: Have the product container, label or Safety Data Sheet with you when calling the emergency number, a Poison Control Centre or physician, or going for treatment.

Inhalation: Move 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.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.

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.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: There is no specific antidote available. Treat symptomatically.

Section 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

For small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
For large fires: Use 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

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion. Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Special protective equipment for fire fighters: In the event of fire, wear self-contained breathing apparatus. Do not allow run-off from firefighting to enter drains or water courses. Cool closed containers exposed to fire with water spray. Do not use a solid water stream as it may scatter and spread fire.

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. 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, (eg sand, earth, diatomaceous earth, vermiculate) and place in container for disposal according to local/national regulations (see section 13).

6.4 Reference to other sections

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

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 reach of children. Keep away from food, drink and animal feeding stuffs. 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)

Please refer to the approval conditions laid down on the product label.

Section 8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Component	CAS No.	Exposure Limit	Value Type	Source
Trinexapac-ethyl	95266-40-3	10mg/m ³	TWA	Supplier

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 vapours are 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.
Eye protection:	If eye contact is a possibility, wear tight-fitting chemical safety goggles. Follow any site-specific eye protection policies.
Hand protection:	Chemical resistant gloves are not usually required. Select gloves based on the physical job requirements.
Skin protection:	No special protective equipment required. Select skin and body protection based on the physical job requirements. Wash with soap and water after removing protective clothing.
Respiratory protection:	No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical measures are installed.
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.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Form:	Liquid.
Colour:	Yellow to red brown
Odour:	Unpleasant

Chemical properties

pH:	2 – 6 (1% w/v)
Flash Point:	79°C DIN 51758
Density:	0.96 – 1.00 g/cm ³
Solubility in water:	Miscible
Log P octanol/water at 20°C	No data available.
Dynamic viscosity	5.45 mPa.s (40°C).
Oxidising properties :	Not Oxidising.
Explosive properties:	Not Explosive.

9.2 Other Information

Surface tension:	28.2 – 28.5 mN/m, 20 °C
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Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

Possibility of hazardous reactions

10.2 Chemical Stability

The product is stable when used in normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions by normal handling and storage

10.4 Conditions to avoid

No decomposition if used as directed.

10.5 Incompatible material

No information available.

10.6 Hazardous decomposition products

Combustion or thermal decomposition will evolve toxic and irritant vapours.

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

LD ₅₀ oral rat:	>5000mg/kg.
Acute inhalation	>5.0 mg/l
LD ₅₀ dermal rat:	>4000mg/kg.
Skin irritation rabbit:	Non-irritating.
Eye irritation rabbit:	Non-irritating.
Sensitisation guinea pig:	Skin sensitiser in animal tests.
Mutagenicity:	Did not show any mutagenic effects.
Carcinogenicity:	No evidence of carcinogenicity.
Developmental Toxicity:	Not teratogenic.
Reproductive Toxicity:	Not reprotoxic.
Repeated dose Toxicity:	No adverse effect observed.

Section 12. ECOLOGICAL INFORMATION

12.1 Toxicity

LC ₅₀ <i>Oncorhynchus mykiss</i> (96 h):	24 mg/l.
EC ₅₀ <i>Daphnia magna straus</i> (48 h):	2.9 mg/l.
E _b C ₅₀ <i>Anabaena flos-aquae</i> (Bluegreen Algae) (96 h):	5.6 mg/l
E _r C ₅₀ <i>Anabaena flos-aquae</i> (Bluegreen Algae) (96 h):	8.3 mg/l
E _b C ₅₀ <i>Lemma gibba</i> (Duckweed) (7 d):	25 mg/l
E _r C ₅₀ <i>Lemma gibba</i> (Duckweed) (7 d):	55 mg/l

12.2 Persistence and degradability

Not readily biodegradable. Degradation half-Life 3.9 – 5.5 d. Not persistent in water

12.3 Bioaccumulative potential

Does not bioaccumulate.
Partition coefficient: log Pow -2.1 (25 °C)
log Pow -0.29 (25 °C)
log Pow -1.5 (25 °C)

12.4 Mobility in soil

Medium mobility in soil. Percentage dissipation: 50 % (DT50: <0.2 d). Not persistent in soil.

12.5 Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6 Other adverse effects

No data available.

Section 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal procedures: 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 for local recycling or waste disposal. Do not re-use empty containers.

Section 14. TRANSPORT INFORMATION

Transport the product in accordance with the provisions of ADR for road, RID for rail, IMDG for the sea, and ICAO / IATA for air transport

14.1 UN Number

3082.

14.2 UN proper shipping name

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

14.3 Transport hazard class(es)

9.

14.4 Packing group

III.

14.5 Environmental hazards

Environmentally hazardous

14.6 Special precautions for user

None known.

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 regulation/legislation specific for the substance or mixture

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.

15.2 Chemical safety assessment

A chemical safety assessment is not required for this substance when it is used in the specified applications.

Section 16. OTHER INFORMATION

Full list of relevant hazard and precautionary statements that were not given in full in sections 2 and 3.

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

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