

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## SONIS

|         |                |             |                                 |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 22.10.2025  |
| 2.5     | 10.11.2025     | S2469417827 | Date of first issue: 11.09.2023 |

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : SONIS

Design code : A7725M

Product Registration Number : MAPP 16891

Unique Formula Identifier (UFI) : RJU7-70UQ-S00T-QR1N

#### 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 UK Limited  
Jealott's Hill International Research Centre  
Bracknell, Berkshire RG42 6EY  
United Kingdom

Telephone : +44 (0) 1223 883400

Telefax : -

E-mail address of person responsible for the SDS : MSDSenquiries.UK@syngenta.com

#### 1.4 Emergency telephone number

Emergency telephone number : +44 1484 538444

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

|  |  |
|--|--|
| Skin sensitisation, Sub-category 1B  | 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) aquatic hazard, Category 1   | H410: Very toxic to aquatic life with long lasting effects.              |

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### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

|                                |   |   |
|--------------------------------|---|---|
| Hazard pictograms              | : |   |
| Signal word                    | : | Warning   |
| Hazard statements              | : | H317 May cause an allergic skin reaction.<br>H373 May cause damage to organs (Gastrointestinal tract) through prolonged or repeated exposure.<br>H410 Very toxic to aquatic life with long lasting effects.   |
| Supplemental Hazard Statements | : | EUH066 Repeated exposure may cause skin dryness or cracking.  |
| Precautionary statements       | : | <b>Prevention:</b><br>P260 Do not breathe mist or vapours.<br>P280 Wear protective gloves.<br><b>Response:</b><br>P314 Get medical advice/ attention if you feel unwell.<br>P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.<br>P362 + P364 Take off contaminated clothing and wash it before reuse.<br>P391 Collect spillage.<br><b>Disposal:</b><br>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. |

#### Hazardous components which must be listed on the label:

trinexapac-ethyl (ISO)

#### Additional Labelling

EUH401 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 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.

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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.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

| Chemical name  | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number          | Classification   | Concentration<br>(% w/w) |
|--|--|--|--------------------------|
| trinexapac-ethyl (ISO)   | 95266-40-3<br><br>607-752-00-4                                 | Skin Sens. 1B; H317<br>STOT RE 2; H373<br>(Gastrointestinal tract)<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Chronic aquatic toxicity): 1   | >= 25 - < 30             |
| 2-[2-(2-{2-[2-(11-methyl-dodecyloxy)-ethoxy]-ethoxy)-ethoxy]-ethoxy]-ethanol | 78330-21-9   | Eye Dam. 1; H318<br>Aquatic Chronic 3;<br>H412   | >= 20 - < 25             |
| toluene  | 108-88-3<br>203-625-9<br>601-021-00-3<br>01-2119471310-51-xxxx | Flam. Liq. 2; H225<br>Skin Irrit. 2; H315<br>Repr. 2; H361d<br>STOT SE 3; H336<br>(Central nervous system)<br>STOT RE 2; H373<br>(Central nervous system)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 3;<br>H412 | >= 0.1 - < 0.25          |

For explanation of abbreviations see section 16.

### SECTION 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 respira-

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- tion.  
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.
- Risks : May cause an allergic skin reaction.  
May cause damage to organs through prolonged or repeated  
exposure.  
Repeated exposure may cause skin dryness or cracking.

### 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.

## SECTION 5: Firefighting 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 fire-fighting : 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.

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Flash back possible over considerable distance.

Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)

### 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.

## SECTION 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

Methods for 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 considerations see section 13., Refer to protective measures listed in sections 7 and 8.

## SECTION 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.

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### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : 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 feed-ingstuffs. No smoking.

### 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.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components             | CAS-No.  | Value type (Form of exposure) | Control parameters               | Basis      |
|------------------------|--|-------------------------------|----------------------------------|------------|
| trinexapac-ethyl (ISO) | 95266-40-3   | TWA                           | 5 mg/m <sup>3</sup>              | Syngenta   |
| toluene                | 108-88-3   | TWA                           | 50 ppm<br>192 mg/m <sup>3</sup>  | 2006/15/EC |
|                        | Further information: Indicative, Identifies the possibility of significant uptake through the skin   |                               |                                  |            |
|                        |  | STEL                          | 100 ppm<br>384 mg/m <sup>3</sup> | 2006/15/EC |
|                        | Further information: Indicative, Identifies the possibility of significant uptake through the skin   |                               |                                  |            |
|                        |  | TWA                           | 50 ppm<br>191 mg/m <sup>3</sup>  | GB EH40    |
|                        | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                               |                                  |            |
|                        |  | STEL                          | 100 ppm<br>384 mg/m <sup>3</sup> | GB EH40    |
|                        | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                               |                                  |            |

#### 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 <sup>3</sup>  |
|                               | 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         | 12.86 mg/m <sup>3</sup> |

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|                         |           |            | effects                    |                        |
|-------------------------|-----------|------------|----------------------------|------------------------|
| castor oil, ethoxylated | Workers   | Inhalation | Long-term systemic effects | 16.4 mg/m <sup>3</sup> |
|                         | Workers   | Dermal     | Long-term systemic effects | 4.67 mg/kg bw/day      |
|                         | Consumers | Inhalation | Long-term systemic effects | 2.9 mg/m <sup>3</sup>  |
|                         | Consumers | Dermal     | Long-term systemic effects | 1.67 mg/kg bw/day      |
|                         | Consumers | Oral       | Long-term systemic effects | 1.67 mg/kg bw/day      |
|                         | Workers   | Inhalation | Long-term systemic effects | 192 mg/m <sup>3</sup>  |
| toluene                 | Workers   | Dermal     | Long-term systemic effects | 384 mg/kg              |
|                         | Workers   | Inhalation | Acute local effects        | 384 mg/m <sup>3</sup>  |
|                         | Workers   | Inhalation | Acute systemic effects     | 384 mg/m <sup>3</sup>  |
|                         | Workers   | Inhalation | Long-term local effects    | 192 mg/m <sup>3</sup>  |
|                         | 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 <sup>3</sup>  |
|                         | Consumers | Inhalation | Acute local effects        | 226 mg/m <sup>3</sup>  |
|                         | Consumers | Inhalation | Long-term local effects    | 56.5 mg/m <sup>3</sup> |
|                         | Consumers | Inhalation | Long-term systemic effects | 56.5 mg/m <sup>3</sup> |

### 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                   |
|                               | castor oil, ethoxylated   | Fresh water sediment            |
| 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                      |

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### 8.2 Exposure controls

#### Engineering measures

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards.  
Where necessary, seek additional occupational hygiene advice.

#### Personal protective equipment

Eye/face 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 specifications 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 :

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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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |   |  |
|--|---|--|
| Physical state                                   | : | liquid                                     |
| Colour   | : | brown orange                               |
| Odour  | : | unpleasant                                 |
| Odour Threshold                                  | : | No data available                          |
| Melting point/freezing point                     | : | No data available                          |
| Initial boiling point and 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<br>Method: Pensky-Martens closed cup |
| Auto-ignition temperature                        | : | 250 °C                                     |
| Decomposition temperature                        | : | No data available                          |
| pH   | : | 2 - 6<br>Concentration: 1 %w/v             |
| Viscosity  | : |  |
| Viscosity, dynamic                               | : | 10.01 mPa,s (20 °C)<br>5.45 mPa,s (40 °C)  |
| Viscosity, kinematic                             | : | No data available                          |
| Solubility(ies)                                  | : |  |
| Solubility in other solvents                     | : | No data available                          |
| Partition coefficient: n-octanol/water           | : | No data available                          |

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Vapour pressure : No data available

Density : 0.96 - 1.00 g/cm<sup>3</sup> (20 °C)

Relative vapour density : No data available

Particle characteristics  
Particle size : No data available

### 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, 7.500 g/l, 20 °C

## SECTION 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

No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure : Ingestion  
Inhalation  
Skin contact  
Eye contact

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### Acute toxicity

Based on available data, the classification criteria are not met.

#### 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

##### **2-[2-(2-{2-[2-(11-methyl-dodecyloxy)-ethoxy]-ethoxy)-ethoxy]-ethoxy]-ethanol:**

- Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity
- Acute dermal toxicity : LD50 (Rat, female): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

##### **toluene:**

- Acute oral toxicity : LD50 (Rat, male): 5,580 mg/kg
- Acute inhalation toxicity : LC50 (Rat, male): 25.7 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 (Rabbit, male): > 5,000 mg/kg

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### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

#### 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

##### **toluene:**

Species : Rabbit  
Result : Irritating to skin.

### Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

#### Product:

Species : Rabbit  
Result : No eye irritation

#### Components:

##### **trinexapac-ethyl (ISO):**

Species : Rabbit  
Result : No eye irritation

##### **2-[2-(2-{2-[2-(11-methyl-dodecyloxy)-ethoxy]-ethoxy)-ethoxy]-ethoxy]-ethanol:**

Species : Rabbit  
Result : Risk of serious damage to eyes.

##### **toluene:**

Species : Rabbit  
Result : No eye irritation

### Respiratory or skin sensitisation

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified due to lack of data.

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### Product:

Species : Guinea pig  
Result : The product is a skin sensitiser, sub-category 1B.

### Components:

#### **trinexapac-ethyl (ISO):**

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Result : Does not cause skin sensitisation.

#### **toluene:**

Species : Guinea pig  
Result : Does not cause skin sensitisation.

### **Germ cell mutagenicity**

Not classified due to lack of data.

### Components:

#### **trinexapac-ethyl (ISO):**

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

#### **toluene:**

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

### **Carcinogenicity**

Not classified due to lack of data.

### Components:

#### **trinexapac-ethyl (ISO):**

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

#### **toluene:**

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

### **Reproductive toxicity**

Not classified due to lack of data.

### Components:

#### **trinexapac-ethyl (ISO):**

Reproductive toxicity - Assessment : No toxicity to reproduction

#### **toluene:**

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

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### STOT - single exposure

Not classified due to lack of data.

#### Components:

##### trinexapac-ethyl (ISO):

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

##### toluene:

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

### STOT - repeated exposure

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

Not classified due to lack of data.

#### Components:

##### toluene:

May be fatal if swallowed and enters airways.

## 11.2 Information on other hazards

### Endocrine disrupting properties

Not classified due to lack of data.

#### 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.

#### Components:

##### trinexapac-ethyl (ISO):

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Assessment : Substance does not have endocrine disrupting properties.  
Remarks : Weight of Evidence

## SECTION 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

EC10 (Raphidocelis subcapitata (freshwater green alga)): 13.39 mg/l  
End point: Growth rate  
Exposure time: 72 h

ErC50 (Myriophyllum spicatum (Eurasian watermilfoil)): 1.2 mg/l  
Exposure time: 14 d

EC10 (Myriophyllum spicatum (Eurasian watermilfoil)): 0.011 mg/l

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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) : EC10: 1.37 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

**2-[2-(2-{2-[2-(11-methyl-dodecyloxy)-ethoxy]-ethoxy)-ethoxy]-ethoxy]-ethanol:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1 - 10 mg/l  
Exposure time: 96 h

### Ecotoxicology Assessment

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 : EC50 (Ceriodaphnia dubia (water flea)): 3.78 mg/l  
Exposure time: 48 h

Toxicity to fish (Chronic toxicity) : NOEC: 1.39 mg/l  
Exposure time: 40 d  
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.

#### **2-[2-(2-{2-[2-(11-methyl-dodecyloxy)-ethoxy]-ethoxy)-ethoxy]-ethoxy]-ethanol:**

Biodegradability : Result: Biodegradable

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### toluene:

Biodegradability : Result: Readily biodegradable.

## 12.3 Bioaccumulative potential

### Components:

#### trinexapac-ethyl (ISO):

Bioaccumulation : Remarks: Does not bioaccumulate.

### toluene:

Bioaccumulation : Remarks: Does not bioaccumulate.

## 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 : Substance is not persistent, bioaccumulative, and toxic (PBT).  
Substance is not very persistent and very bioaccumulative (vPvB).  
Remarks: Weight of Evidence

#### 2-[2-(2-{2-[2-(11-methyl-dodecyloxy)-ethoxy]-ethoxy)-ethoxy]-ethoxy]-ethanol:

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).  
Substance is not very persistent and very bioaccumulative (vPvB).

### toluene:

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).  
Substance is not very persistent and very bioaccumulative (vPvB).

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### 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.

#### Components:

##### **trinexapac-ethyl (ISO):**

Assessment : Substance does not have endocrine disrupting properties.  
Remarks : Weight of Evidence

### 12.7 Other adverse effects

#### Components:

##### **trinexapac-ethyl (ISO):**

Assessment : Substance is not persistent, mobile, and toxic (PMT).  
Substance is not very persistent and very mobile (vPvM).  
Remarks: Weight of Evidence

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.  
Where possible recycling is preferred to disposal or incineration.  
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Empty remaining contents.  
Triple rinse containers.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

Waste Code : uncleaned packagings  
15 01 10, packaging containing residues of or contaminated by hazardous substances

## SECTION 14: Transport information

### 14.1 UN number or ID number

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**ADN** : UN 3082  
**ADR** : UN 3082  
**RID** : UN 3082  
**IMDG** : UN 3082  
**IATA** : UN 3082

### 14.2 UN proper shipping name

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

|             | Class | Subsidiary risks |
|-------------|-------|------------------|
| <b>ADN</b>  | : 9   |                  |
| <b>ADR</b>  | : 9   |                  |
| <b>RID</b>  | : 9   |                  |
| <b>IMDG</b> | : 9   |                  |
| <b>IATA</b> | : 9   |                  |

### 14.4 Packing group

**ADN**  
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.

**ADR**  
Packing group : III  
Classification Code : M6

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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

### ADN

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Environmentally hazardous : yes

### 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.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 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

Number on list 48: toluene

Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer : Not applicable

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

Regulation (EU) 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 major-accident hazards involving E1 ENVIRONMENTAL HAZARDS

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dangerous substances.

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)  
Not applicable

### 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.

## SECTION 16: Other information

### Full text of H-Statements

H225 : Highly flammable liquid and vapour.  
H304 : May be fatal if swallowed and enters airways.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye 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

Aquatic Chronic : Long-term (chronic) aquatic hazard  
Asp. Tox. : Aspiration hazard  
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  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
Syngenta : Syngenta Occupational Exposure Limit  
2006/15/EC / TWA : Limit Value - eight hours  
2006/15/EC / STEL : Short term exposure limit  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)  
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)  
Syngenta / TWA : Time weighted average

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - 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; IBC - 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; KECI - 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; NOELR - 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; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals 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:

|                   |      |
|-------------------|------|
| Skin Sens. 1B     | H317 |
| STOT RE 2         | H373 |
| Aquatic Chronic 1 | H410 |

#### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method                  |
| 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.

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