

## TACANZA ERA

Version 2.1      Revision Date: 20.10.2021      SDS Number: S00058123123      This version replaces all previous versions.

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

#### 1.1 Product identifier

Trade name : TACANZA ERA  
Design code : A19020T  
Product Registration Number : PCS 06551  
Unique Formula Identifier (UFI) : 7RC3-T0RT-H00K-2QSA

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

Use of the Substance/Mixture : Fungicide  
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)

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Eye irritation, Category 2      H319: Causes serious eye irritation.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## TACANZA ERA

Version 2.1      Revision Date: 20.10.2021      SDS Number: S00058123123      This version replaces all previous versions.

Skin sensitisation, Category 1  
Specific target organ toxicity - single exposure, Category 3, Respiratory system  
Short-term (acute) aquatic hazard, Category 1  
Long-term (chronic) aquatic hazard, Category 1

H317: May cause an allergic skin reaction.  
H335: May cause respiratory irritation.

H400: Very toxic to aquatic life.

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

### 2.2 Label elements

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

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : P102 Keep out of reach of children.

#### Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P391 Collect spillage.

#### Disposal:

P501 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.

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

mixture of octanoic acid- decanoic acid- N,N-dimethylamide

#### Additional Labelling

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## TACANZA ERA

Version  
2.1

Revision Date:  
20.10.2021

SDS Number:  
S00058123123

This version replaces all previous versions.

### 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.

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) |
|---|---|--|--------------------------|
| mixture of octanoic acid- decanoic acid- N,N-dimethylamide              | 1118-92-9<br>214-272-5<br>01-2119974115-37            | Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>STOT SE 3; H335<br>(Respiratory system)   | >= 30 - < 50             |
| prothioconazole   | 178928-70-6   | Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute<br>aquatic toxicity): 10<br>M-Factor (Chronic<br>aquatic toxicity): 1                      | >= 10 - < 20             |
| poly(oxy-1,2-ethanediyl), -[2,4,6-tris(1-phenylethyl)phenyl]- -hydroxy- | 99734-09-5  | Aquatic Chronic 3;<br>H412   | >= 2.5 - < 10            |
| benzovindiflupyr (ISO)  | 1072957-71-1<br>616-218-00-X                          | Acute Tox. 3; H301<br>Acute Tox. 3; H331<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute<br>aquatic toxicity): 100<br>M-Factor (Chronic | >= 2.5 - < 10            |

## TACANZA ERA

Version 2.1      Revision Date: 20.10.2021      SDS Number: S00058123123      This version replaces all previous versions.

---

|  |  |                        |  |
|--|--|------------------------|--|
|  |  | aquatic toxicity): 100 |  |
|--|--|------------------------|--|

For explanation of abbreviations see section 16.

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### 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 respiration.  
Keep patient warm and at rest.  
Call a physician or poison control centre immediately.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off immediately with plenty of water.  
If skin irritation persists, call a physician.  
Wash contaminated clothing before re-use.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Remove contact lenses.  
Immediate medical attention is required.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label.  
Do NOT induce vomiting.

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

- Symptoms : Nonspecific  
No symptoms known or expected.

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

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

### 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

## TACANZA ERA

Version 2.1      Revision Date: 20.10.2021      SDS Number: S00058123123      This version replaces all previous versions.

---

Unsuitable extinguishing media : or  
Water spray  
Do not use a solid water stream as it may scatter and spread fire.

### 5.2 Special hazards arising from the substance or mixture

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.

### 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.

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## 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.

### 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## TACANZA ERA

Version  
2.1

Revision Date:  
20.10.2021

SDS Number:  
S00058123123

This version replaces all previous versions.

### SECTION 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 eyes.  
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. Keep away from direct sunlight.

#### 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    |
|------------------------|--------------|-------------------------------|-----------------------|----------|
| prothioconazole        | 178928-70-6  | TWA                           | 1.4 mg/m <sup>3</sup> | Supplier |
| benzovindiflupyr (ISO) | 1072957-71-1 | TWA                           | 1 mg/m <sup>3</sup>   | Syngenta |

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

| Substance name   | End Use   | Exposure routes | Potential health effects   | Value                    |
|--|-----------|-----------------|----------------------------|--------------------------|
| benzovindiflupyr (ISO)                                     | Workers   | Inhalation      | Long-term systemic effects | 0.478 mg/m <sup>3</sup>  |
|  | Workers   | Inhalation      | Acute systemic effects     | 1.13 mg/m <sup>3</sup>   |
|  | Workers   | Dermal          | Long-term systemic effects | 3.33 mg/kg               |
|  | Consumers | Inhalation      | Long-term systemic effects | 0.119 mg/m <sup>3</sup>  |
|  | Consumers | Dermal          | Long-term systemic effects | 1.67 mg/kg               |
|  | Consumers | Oral            | Long-term systemic effects | 0.049 mg/kg              |
| mixture of octanoic acid- decanoic acid- N,N-dimethylamide | Workers   | Inhalation      | Long-term systemic effects | 166.67 mg/m <sup>3</sup> |

## TACANZA ERA

Version 2.1      Revision Date: 20.10.2021      SDS Number: S00058123123      This version replaces all previous versions.

|  |           |            |                            |                      |
|--|-----------|------------|----------------------------|----------------------|
|  | Workers   | Dermal     | Long-term systemic effects | 23.81 mg/kg          |
|  | Consumers | Inhalation | Long-term systemic effects | 50 mg/m <sup>3</sup> |
|  | Consumers | Dermal     | Long-term systemic effects | 14.29 mg/kg          |
|  | Consumers | Oral       | Long-term systemic effects | 14.29 mg/kg          |

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

| Substance name  | Environmental Compartment | Value         |
|---|---------------------------|---------------|
| benzovindiflupyr (ISO)                                    | Fresh water               | 0.000095 mg/l |
|   | Secondary poisoning       | 2 mg/kg       |
|   | Soil                      | 0.041 mg/kg   |
|   | Marine water              | 0.000009 mg/l |
|   | Fresh water sediment      | 0.053 mg/kg   |
|   | Sewage treatment plant    | 100 mg/l      |
|   | Marine sediment           | 0.005 mg/kg   |
| mixture of octanoic acid-decanoic acid- N,N-dimethylamide | Fresh water               | 0.026 mg/l    |
|   | Marine water              | 0.0026 mg/l   |
|   | Intermittent use/release  | 0.077 mg/l    |
|   | Sewage treatment plant    | 2.12 mg/l     |
|   | Fresh water sediment      | 0.318 mg/kg   |
|   | Marine sediment           | 0.0318 mg/kg  |
|   | Soil                      | 5.23 mg/kg    |

## 8.2 Exposure controls

### Engineering measures

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

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

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

### Personal protective equipment

Eye protection : Tightly fitting safety goggles  
Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.  
Equipment should conform to EN 166

Hand protection

Material : Nitrile rubber  
Break through time : > 480 min  
Glove thickness : 0.5 mm

## TACANZA ERA

Version 2.1      Revision Date: 20.10.2021      SDS Number: S00058123123      This version replaces all previous versions.

---

- 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 : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
Suitable respiratory equipment:  
Respirator with a particle filter (EN 143)  
The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
- Filter type : Particulates type (P)
- 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.
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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Physical state : clear to slightly turbid  
Colour : yellow to amber



## TACANZA ERA

Version 2.1      Revision Date: 20.10.2021      SDS Number: S00058123123      This version replaces all previous versions.

---

|  |   |  |
|--|---|--|
| Odour  | : | amine-like, ester-like, strong                                 |
| 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                                      | : | 141 °C<br>Method: Seta closed cup                              |
| Auto-ignition temperature                        | : | 370 °C   |
| Decomposition temperature                        | : | No data available  |
| pH   | : | 5.0<br>Concentration: 1 % w/v                                  |
| Viscosity  |   |  |
| Viscosity, dynamic                               | : | 75.4 mPa.s (20 °C)<br>26.3 mPa.s (40 °C)                       |
| Viscosity, kinematic                             | : | No data available  |
| Solubility(ies)                                  |   |  |
| Water solubility                                 | : | No data available  |
| Solubility in other solvents                     | : | No data available  |
| Partition coefficient: n-octanol/water           | : | No data available  |
| Vapour pressure                                  | : | No data available  |
| Density  | : | 1 g/cm <sup>3</sup> (25 °C)<br>1,007 g/cm <sup>3</sup> (19 °C) |
| Relative vapour density                          | : | No data available  |
| Particle characteristics                         |   |  |
| Particle size                                    | : | No data available  |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## TACANZA ERA

Version  
2.1

Revision Date:  
20.10.2021

SDS Number:  
S00058123123

This version replaces all previous versions.

### 9.2 Other information

|                      |   |  |
|----------------------|---|--|
| Explosives           | : | Not explosive  |
| Oxidizing properties | : | The substance or mixture is not classified as oxidizing. |
| Evaporation rate     | : | No data available  |
| Surface tension      | : | 32.6 mN/m, 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 : Extremes of temperature and direct sunlight.

### 10.5 Incompatible materials

Materials to avoid : None known.

### 10.6 Hazardous decomposition products

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

#### Acute toxicity

##### Product:

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

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.04 mg/l  
Exposure time: 4 h

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## TACANZA ERA

Version  
2.1

Revision Date:  
20.10.2021

SDS Number:  
S00058123123

This version replaces all previous versions.

Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

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

### Components:

#### **prothioconazole:**

Acute oral toxicity : LD50 (Rat): > 6,200 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 4.99 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Highest attainable concentration

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

#### **poly(oxy-1,2-ethanediyl), -[2,4,6-tris(1-phenylethyl)phenyl]- -hydroxy-:**

Acute oral toxicity : LD50 Oral (Rat): 5,000 mg/kg

#### **benzovindiflupyr (ISO):**

Acute oral toxicity : LD50 (Rat, female): 55 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 0.56 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

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

### **Skin corrosion/irritation**

#### Product:

Species : Rabbit  
Result : No skin irritation

### Components:

#### **mixture of octanoic acid- decanoic acid- N,N-dimethylamide:**

Species : Rabbit  
Result : Irritating to skin.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## TACANZA ERA

Version  
2.1

Revision Date:  
20.10.2021

SDS Number:  
S00058123123

This version replaces all previous versions.

---

### **prothioconazole:**

Species : Rabbit  
Result : No skin irritation

### **benzovindiflupyr (ISO):**

Species : Rabbit  
Result : No skin irritation

### **Serious eye damage/eye irritation**

#### **Product:**

Species : Rabbit  
Result : Irritation to eyes, reversing within 7 days

#### **Components:**

### **mixture of octanoic acid- decanoic acid- N,N-dimethylamide:**

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

### **prothioconazole:**

Species : Rabbit  
Result : No eye irritation

### **benzovindiflupyr (ISO):**

Species : Rabbit  
Result : No eye irritation

### **Respiratory or skin sensitisation**

#### **Product:**

Test Type : mouse lymphoma cells  
Species : Mouse  
Result : May cause sensitisation by skin contact.

#### **Components:**

### **prothioconazole:**

Test Type : mouse lymphoma cells  
Species : Mouse  
Result : Did not cause sensitisation on laboratory animals.

### **benzovindiflupyr (ISO):**

Test Type : mouse lymphoma cells  
Species : Mouse

## TACANZA ERA

Version 2.1      Revision Date: 20.10.2021      SDS Number: S00058123123      This version replaces all previous versions.

---

Result : Did not cause sensitisation on laboratory animals.

### Germ cell mutagenicity

#### Components:

##### **prothioconazole:**

Germ cell mutagenicity-Assessment : Weight of evidence does not support classification as a germ cell mutagen.

##### **poly(oxy-1,2-ethanediyl), -[2,4,6-tris(1-phenylethyl)phenyl]- -hydroxy-:**

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

##### **benzovindiflupyr (ISO):**

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

### Carcinogenicity

#### Components:

##### **prothioconazole:**

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

##### **benzovindiflupyr (ISO):**

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen, This substance has been reported to cause tumours in certain animal species., There is no evidence that these findings are relevant to humans.

### Reproductive toxicity

#### Components:

##### **prothioconazole:**

Reproductive toxicity - Assessment : No toxicity to reproduction

##### **benzovindiflupyr (ISO):**

Reproductive toxicity - Assessment : No toxicity to reproduction

### STOT - single exposure

#### Components:

##### **mixture of octanoic acid- decanoic acid- N,N-dimethylamide:**

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

## TACANZA ERA

Version 2.1      Revision Date: 20.10.2021      SDS Number: S00058123123      This version replaces all previous versions.

---

### **prothioconazole:**

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

### **benzovindiflupyr (ISO):**

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

### **STOT - repeated exposure**

#### **Components:**

### **prothioconazole:**

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

### **benzovindiflupyr (ISO):**

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

### **Repeated dose toxicity**

#### **Components:**

### **benzovindiflupyr (ISO):**

Remarks : No adverse effect has been observed in chronic toxicity tests.

## 11.2 Information on other hazards

### **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.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### **Product:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.148 mg/l  
Exposure time: 96 h

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## TACANZA ERA

Version 2.1      Revision Date: 20.10.2021      SDS Number: S00058123123      This version replaces all previous versions.

---

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.36 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 13 mg/l  
Exposure time: 72 h

NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.32 mg/l  
End point: Growth rate  
Exposure time: 72 h

EC10 (Raphidocelis subcapitata (freshwater green alga)): 3.6 mg/l  
End point: Growth rate  
Exposure time: 72 h

### Components:

#### **mixture of octanoic acid- decanoic acid- N,N-dimethylamide:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 14.8 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 7.7 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 16.06 mg/l  
Exposure time: 72 h

#### **prothioconazole:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.83 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.3 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Raphidocelis subcapitata (freshwater green alga)): 2.18 mg/l  
Exposure time: 72 h

ErC50 (Skeletonema costatum (marine diatom)): 0.03278 mg/l  
Exposure time: 72 h

EC10 (Skeletonema costatum (marine diatom)): 0.01427 mg/l  
End point: Growth rate  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 10

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## TACANZA ERA

Version 2.1      Revision Date: 20.10.2021      SDS Number: S00058123123      This version replaces all previous versions.

---

M-Factor (Chronic aquatic toxicity) : 1

**poly(oxy-1,2-ethanediyl), -[2,4,6-tris(1-phenylethyl)phenyl]- -hydroxy-:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 21 mg/l  
Exposure time: 96 h

**Ecotoxicology Assessment**

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

**benzovindiflupyr (ISO):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.0091 mg/l  
Exposure time: 96 h

LC50 (Cyprinus carpio (Carp)): 0.0035 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Americamysis): 0.056 mg/l  
Exposure time: 96 h

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 0.89 mg/l  
Exposure time: 96 h

NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.42 mg/l  
End point: Growth rate  
Exposure time: 96 h

ErC50 (Skeletonema costatum (marine diatom)): 0.55 mg/l  
Exposure time: 72 h

NOEC (Skeletonema costatum (marine diatom)): 0.4 mg/l  
End point: Growth rate  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 100

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
Exposure time: 3 h

Toxicity to fish (Chronic toxicity) : NOEC: 0.00095 mg/l  
Exposure time: 32 d  
Species: Pimephales promelas (fathead minnow)  
Test Type: Early-life Stage

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.0074 mg/l  
Exposure time: 28 d  
Species: Americamysis



## TACANZA ERA

Version 2.1      Revision Date: 20.10.2021      SDS Number: S00058123123      This version replaces all previous versions.

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EC10: 0.012 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 100

### 12.2 Persistence and degradability

#### Components:

**mixture of octanoic acid- decanoic acid- N,N-dimethylamide:**

Biodegradability : Result: Readily biodegradable.

Stability in water : Remarks: Product is not persistent.

**prothioconazole:**

Biodegradability : Result: Not rapidly biodegradable

**benzovindiflupyr (ISO):**

Biodegradability : Result: Not readily biodegradable.

### 12.3 Bioaccumulative potential

#### Components:

**prothioconazole:**

Bioaccumulation : Remarks: Does not bioaccumulate.

**benzovindiflupyr (ISO):**

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 4.3 (25 °C)

### 12.4 Mobility in soil

#### Components:

**mixture of octanoic acid- decanoic acid- N,N-dimethylamide:**

Stability in soil : Remarks: Product is not persistent.

**prothioconazole:**

Distribution among environmental compartments : Remarks: Low mobility in soil.

**benzovindiflupyr (ISO):**

Distribution among environmental compartments : Remarks: Slightly mobile in soils

## TACANZA ERA

Version 2.1      Revision Date: 20.10.2021      SDS Number: S00058123123      This version replaces all previous versions.

---

### 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:**

**prothioconazole:**

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).

**poly(oxy-1,2-ethanediyl), -[2,4,6-tris(1-phenylethyl)phenyl]- -hydroxy-:**

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).

**benzovindiflupyr (ISO):**

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

### 12.6 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

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## 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## TACANZA ERA

Version 2.1      Revision Date: 20.10.2021      SDS Number: S00058123123      This version replaces all previous versions.

---

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

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR : UN 3082  
RID : UN 3082  
IMDG : UN 3082  
IATA : UN 3082

#### 14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(BENZOVINDIFLUPYR)  
RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(BENZOVINDIFLUPYR)  
IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(BENZOVINDIFLUPYR)  
IATA : Environmentally hazardous substance, liquid, n.o.s.  
(BENZOVINDIFLUPYR)

#### 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

## TACANZA ERA

Version      Revision Date:      SDS Number:      This version replaces all previous versions.  
2.1          20.10.2021          S00058123123

---

Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

### RID

Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

### IMDG

Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

### IATA (Cargo)

Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

### IATA (Passenger)

Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

## 14.5 Environmental hazards

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

### IATA (Passenger)

Environmentally hazardous : yes

### IATA (Cargo)

Environmentally hazardous : yes

## 14.6 Special precautions for user

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

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## TACANZA ERA

Version 2.1      Revision Date: 20.10.2021      SDS Number: S00058123123      This version replaces all previous versions.

### 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, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 3  
xylene
- 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 major-accident hazards involving dangerous substances.

|    |                       |                     |                     |
|----|-----------------------|---------------------|---------------------|
| E1 | ENVIRONMENTAL HAZARDS | Quantity 1<br>100 t | Quantity 2<br>200 t |
|----|-----------------------|---------------------|---------------------|

#### 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.

Use plant protection products safely. Always read the label and product information before use.

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

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

- H301 : Toxic if swallowed.  
H315 : Causes skin irritation.  
H318 : Causes serious eye damage.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## TACANZA ERA

Version 2.1      Revision Date: 20.10.2021      SDS Number: S00058123123      This version replaces all previous versions.

---

H331 : Toxic if inhaled.  
H335 : May cause respiratory irritation.  
H400 : Very toxic to aquatic life.  
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 Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Eye Dam. : Serious eye damage  
Skin Irrit. : Skin irritation  
STOT SE : Specific target organ toxicity - single exposure

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; AIIIC - 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:

Eye Irrit. 2      H319  
Skin Sens. 1      H317

#### Classification procedure:

Based on product data or assessment  
Based on product data or assessment

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## TACANZA ERA

Version  
2.1

Revision Date:  
20.10.2021

SDS Number:  
S00058123123

This version replaces all previous versions.

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|                   |      |                                     |
|-------------------|------|-------------------------------------|
| STOT SE 3         | H335 | Calculation method                  |
| Aquatic Acute 1   | H400 | Based on product data or assessment |
| 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.

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