

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## TOPREX

Version	Revision Date:	SDS Number:	Date of last issue: 09.10.2024
16.0	23.10.2025	S1355323282	Date of first issue: 16.06.2017

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

#### 1.1 Product identifier

Trade name : TOPREX

Design code : A14049A

Product Registration Number : MAPP 16456

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

Use of the Sub-  
stance/Mixture : Fungicide

Recommended restrictions : professional use  
on 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 num-  
ber : +44 1484 538444

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
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) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Hazard pictograms :

Signal word : Warning

Hazard statements : H361d Suspected of damaging the unborn child.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

**Response:**  
P308 + P313 IF exposed or concerned: 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 clean containers which can be disposed of as non-hazardous waste.

Hazardous components which must be listed on the label:

paclobutrazol (ISO)

#### Additional Labelling

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

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.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
difenoconazole (ISO)	119446-68-3  613-347-00-3	Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10  Acute toxicity esti- mate  Acute oral toxicity: 1,450 mg/kg	>= 20 - < 25
paclobutrazol (ISO)	76738-62-0  603-239-00-4	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319 Repr. 2; H361d Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10  Acute toxicity esti- mate  Acute oral toxicity: 490 mg/kg Acute inhalation toxicity (dust/mist):	>= 10 - < 20

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		3.13 mg/l	
poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-[tris(1-phenylethyl)phenoxy]-, ammonium salt	119432-41-6	Aquatic Chronic 3; H412	>= 1 - < 2.5
methanol	67-56-1 200-659-6 603-001-00-X	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 STOT SE 1; H370 (Eyes, Central nervous system)	>= 0.1 - < 1
		specific concentration limit STOT SE 1; H370 >= 10 % STOT SE 2; H371 3 - < 10 %	
toluene	108-88-3 203-625-9 601-021-00-3	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Repr. 2; H361d STOT SE 3; H336 (Central nervous system) STOT RE 2; H373 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>= 0.1 - < 0.25
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6	Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.025 - < 0.05
		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1  specific concentration limit	

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		Skin Sens. 1; H317 ≥ 0.05 %	
Substances with a workplace exposure limit :			
propane-1,2-diol	57-55-6 200-338-0		≥ 1 - < 10

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

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

- Symptoms : Aspiration may cause pulmonary oedema and pneumonitis.
- Risks : Suspected of damaging the unborn child.

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

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

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

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

- Specific hazards during 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.
- Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Chlorine compounds  
Sulphur oxides

#### 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.

#### 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.

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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 : 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.

### 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
difenoconazole (ISO)	119446-68-3	TWA	5 mg/m <sup>3</sup>	Syngenta
paclobutrazol (ISO)	76738-62-0	TWA	5 mg/m <sup>3</sup>	Syngenta
propane-1,2-diol	57-55-6	TWA (particles)	10 mg/m <sup>3</sup>	GB EH40
		TWA (Total va-	150 ppm	GB EH40

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		pour and particles)	474 mg/m <sup>3</sup>	
methanol	67-56-1	TWA	200 ppm 266 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	250 ppm 333 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.			
		TWA	200 ppm 260 mg/m <sup>3</sup>	2006/15/EC
	Further information: Indicative, Identifies the possibility of significant uptake through the skin			
toluene	108-88-3	TWA	50 ppm 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 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.			
		TWA	50 ppm 192 mg/m <sup>3</sup>	2006/15/EC
	Further information: Indicative, Identifies the possibility of significant uptake through the skin			
		STEL	100 ppm 384 mg/m <sup>3</sup>	2006/15/EC
	Further information: Indicative, Identifies the possibility of significant uptake through the skin			

### Derived No Effect Level (DNEL)

Substance name	End Use	Exposure routes	Potential health effects	Value
propane-1,2-diol	Workers	Inhalation	Long-term systemic effects	168 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	10 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	30 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	10 mg/m <sup>3</sup>
toluene	Workers	Inhalation	Long-term systemic effects	192 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic	384 mg/kg

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			effects	
	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>
1,2-benzisothiazol-3(2H)-one	Workers	Inhalation	Long-term systemic effects	6.81 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	0.966 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1.2 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	0.345 mg/kg
methanol	Workers	Inhalation	Long-term systemic effects	130 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	130 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	130 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	130 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	20 mg/m <sup>3</sup>
	Workers	Dermal	Acute systemic effects	20 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	26 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	26 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	26 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	26 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	4 mg/kg
	Consumers	Dermal	Acute systemic effects	4 mg/kg
	Consumers	Oral	Long-term systemic effects	4 mg/kg

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	Consumers	Oral	Acute systemic effects	4 mg/kg
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### Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value
1,2-benzisothiazol-3(2H)-one	Fresh water	0.00403 mg/l
	Marine water	0.000403 mg/l
	Sewage treatment plant	1.03 mg/l
	Fresh water sediment	0.0499 mg/kg
	Marine sediment	0.00499 mg/kg
	Freshwater - intermittent	0.0011 mg/l
	Marine water - intermittent	0.000110 mg/l
methanol	Soil	3 mg/kg
	Fresh water	20 mg/l
	Marine water	2.08 mg/l
	Soil	100 mg/kg wet weight
	Sewage treatment plant	100 mg/l
propane-1,2-diol	Marine sediment	7.7 mg/kg dry weight (d.w.)
	Fresh water	260 mg/l
	Marine water	26 mg/l
	Intermittent use/release	183 mg/l
	Sewage treatment plant	20000 mg/l
	Marine sediment	57.2 mg/kg
toluene	Fresh water sediment	572 mg/kg
	Soil	50 mg/kg
	Fresh water	0.68 mg/l
	Marine sediment	16.39 mg/kg
	Sewage treatment plant	13.61 mg/l
	Freshwater - intermittent	0.68 mg/l
	Marine water	0.68 mg/l
	Fresh water sediment	16.39 mg/kg
Soil	2.89 mg/kg	

## 8.2 Exposure controls

### 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.

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### Hand protection

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

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

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

Remove and wash contaminated clothing before re-use.

Wear as appropriate:

Impervious clothing

Respiratory protection : No personal respiratory protective equipment normally required.

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

Protective measures : The use of technical measures should always have priority over the use of personal protective equipment.

When selecting personal protective equipment, seek appropriate professional advice.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid  
Colour : off-white to beige  
Odour : characteristic  
Odour Threshold : No data available  
  
pH : 4 - 8  
Concentration: 1 %w/v  
  
Melting point/freezing point : No data available  
  
Initial boiling point and boiling range : No data available

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Flash point : Method: Pensky-Martens closed cup  
does not flash

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper  
flammability limit : No data available

Lower explosion limit / Lower  
flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Density : 1.11 g/cm<sup>3</sup> (20 °C)

Solubility(ies)  
Water solubility : No data available  
Solubility in other solvents : No data available

Partition coefficient: n-  
octanol/water : No data available

Auto-ignition temperature : > 650 °C

Decomposition temperature : No data available

Viscosity  
Viscosity, dynamic : 36.2 - 263 mPa,s (40 °C)  
49.1 - 317 mPa,s (20 °C)

Explosive properties : Not explosive

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

### 9.2 Other information

Surface tension : 39.0 mN/m, 0.500 %, 20 °C

Particle size : No data available

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### 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 toxicological effects

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

#### Acute toxicity

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

#### 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): > 5.05 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): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

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### Components:

#### **difenoconazole (ISO):**

- Acute oral toxicity : LD50 (Rat, male and female): 1,453 mg/kg  
Acute toxicity estimate: 1,450 mg/kg  
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008
- Acute inhalation toxicity : LC50 (Rat, male and female): > 3.3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,010 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

#### **paclobutrazol (ISO):**

- Acute oral toxicity : LD50 (Rat, female): 1,336 mg/kg  
Acute toxicity estimate: 490 mg/kg  
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008
- Acute inhalation toxicity : LC50 (Rat, female): 3.13 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Acute toxicity estimate: 3.13 mg/l  
Test atmosphere: dust/mist  
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008
- Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

#### **methanol:**

- Acute oral toxicity : Assessment: The component/mixture is toxic after single ingestion.
- Acute inhalation toxicity : Assessment: The component/mixture is toxic after short term inhalation.
- Acute dermal toxicity : Assessment: The component/mixture is toxic after single contact with skin.

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### **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

### **1,2-benzisothiazol-3(2H)-one:**

Acute oral toxicity : LD50 (Rat, male): 670 mg/kg

Acute inhalation toxicity : LC50: 0.5 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

### **propane-1,2-diol:**

Acute oral toxicity : LD50 (Rat): > 20,000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rabbit): 317,042 mg/l  
Exposure time: 2 h  
Test atmosphere: dust/mist

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

### **Skin corrosion/irritation**

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

### **Product:**

Species : Rabbit  
Result : No skin irritation

### **Components:**

**difenoconazole (ISO):**

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Species : Rabbit  
Result : No skin irritation

### paclobutrazol (ISO):

Species : Rabbit  
Result : No skin irritation

### methanol:

Species : Rabbit  
Result : No skin irritation

### toluene:

Species : Rabbit  
Result : Irritating to skin.

### 1,2-benzisothiazol-3(2H)-one:

Species : Rabbit  
Result : Irritating to skin.

### propane-1,2-diol:

Result : No skin irritation

### Serious eye damage/eye irritation

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

### Product:

Species : Rabbit  
Result : No eye irritation

### Components:

#### difenoconazole (ISO):

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

#### paclobutrazol (ISO):

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

#### methanol:

Species : Rabbit  
Result : No eye irritation

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### **toluene:**

Species : Rabbit  
Result : No eye irritation

### **1,2-benzisothiazol-3(2H)-one:**

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

### **propane-1,2-diol:**

Result : No eye irritation

## **Respiratory or skin sensitisation**

### **Skin sensitisation**

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

### **Respiratory sensitisation**

Not classified due to lack of data.

### **Product:**

Test Type : Buehler Test  
Species : Guinea pig  
Result : Does not cause skin sensitisation.

### **Components:**

#### **difenoconazole (ISO):**

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

#### **paclobutrazol (ISO):**

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

#### **methanol:**

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

#### **toluene:**

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

#### **1,2-benzisothiazol-3(2H)-one:**

Result : Probability or evidence of high skin sensitisation rate in humans

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### propane-1,2-diol:

Result : Does not cause skin sensitisation.

### Germ cell mutagenicity

Not classified due to lack of data.

#### Components:

#### difenoconazole (ISO):

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

#### paclobutrazol (ISO):

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

#### methanol:

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.

#### 1,2-benzisothiazol-3(2H)-one:

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

### propane-1,2-diol:

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

### Carcinogenicity

Not classified due to lack of data.

#### Components:

#### difenoconazole (ISO):

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

#### paclobutrazol (ISO):

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

#### methanol:

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

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### toluene:

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

### propane-1,2-diol:

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

### Reproductive toxicity

Suspected of damaging the unborn child.

### Components:

#### difenoconazole (ISO):

Reproductive toxicity - Assessment : No toxicity to reproduction

#### paclobutrazol (ISO):

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments., Animal testing did not show any effects on fertility.

#### methanol:

Reproductive toxicity - Assessment : No toxicity to reproduction, No effects on or via lactation

#### toluene:

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

#### 1,2-benzisothiazol-3(2H)-one:

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

#### propane-1,2-diol:

Reproductive toxicity - Assessment : No toxicity to reproduction, No effects on or via lactation

### STOT - single exposure

Not classified due to lack of data.

### Components:

#### difenoconazole (ISO):

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

#### methanol:

Target Organs : [Eyes, Central nervous system](#)

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Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.

### toluene:

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

### propane-1,2-diol:

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

### STOT - repeated exposure

Not classified due to lack of data.

### Components:

#### difenoconazole (ISO):

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

### methanol:

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.

### 1,2-benzisothiazol-3(2H)-one:

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

### propane-1,2-diol:

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

### Aspiration toxicity

Not classified due to lack of data.

### Components:

#### toluene:

May be fatal if swallowed and enters airways.

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### propane-1,2-diol:

No aspiration toxicity classification

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 7.1 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 4.8 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): 3.2 mg/l Exposure time: 96 h
		NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.1 mg/l Exposure time: 96 h
		ErC50 (Lemna gibba (gibbous duckweed)): 0.45 mg/l Exposure time: 7 d
		NOEC (Lemna gibba (gibbous duckweed)): 0.027 mg/l Exposure time: 7 d

#### Components:

##### **difenoconazole (ISO):**

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 1.1 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.77 mg/l Exposure time: 48 h
		EC50 (Americamysis): 0.15 mg/l Exposure time: 96 h
Toxicity to algae/aquatic plants	:	EC10 (Navicula pelliculosa (Freshwater diatom)): 0.0697 mg/l End point: Growth rate Exposure time: 72 h
		ErC50 (Desmodesmus subspicatus (green algae)): 0.0876 mg/l

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Exposure time: 72 h

EC10 (Desmodesmus subspicatus (green algae)): 0.015 mg/l

End point: Growth rate

Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 10

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

Toxicity to fish (Chronic toxicity) : EC10: 0.01298 mg/l  
Exposure time: 34 d  
Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 0.0078 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

EC10: 0.00572 mg/l

Exposure time: 28 d

Species: Americamysis

M-Factor (Chronic aquatic toxicity) : 10

### paclobutrazol (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 27.8 mg/l  
Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): 23.6 mg/l

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 29 mg/l  
Exposure time: 48 h

EC50 (Mysidopsis bahia (opossum shrimp)): > 9 mg/l

Exposure time: 72 h

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 15.2 mg/l  
Exposure time: 96 h

ErC50 (Lemna gibba (gibbous duckweed)): 0.0283 mg/l

Exposure time: 7 d

NOEC (Lemna gibba (gibbous duckweed)): 0.002 mg/l  
End point: Growth rate

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Exposure time: 7 d

ErC50 (Myriophyllum spicatum (Eurasian watermilfoil)): 0.022 mg/l

Exposure time: 14 d

NOEC (Myriophyllum spicatum (Eurasian watermilfoil)): 0.0028 mg/l

End point: Growth rate

Exposure time: 14 d

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC: 0.049 mg/l  
Exposure time: 32 d  
Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.32 mg/l  
Exposure time: 22 d  
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 10

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

### poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-[tris(1-phenylethyl)phenoxy]-, ammonium salt:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 33 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 24 mg/l  
Exposure time: 48 h

### 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) : NOEC: 0.74 mg/l  
Exposure time: 7 d

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ic toxicity) Species: Ceriodaphnia dubia (Water flea)

### 1,2-benzisothiazol-3(2H)-one:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2.18 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 2.94 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : ErC50 (Raphidocelis subcapitata (freshwater green alga)):  
plants 0.15 mg/l  
Exposure time: 72 h

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

M-Factor (Acute aquatic tox- : 1  
icity)

Toxicity to fish (Chronic tox- : NOEC: 0.21 mg/l  
icity) Exposure time: 28 d  
Species: Oncorhynchus mykiss (rainbow trout)

M-Factor (Chronic aquatic : 1  
toxicity)

### propane-1,2-diol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other : (Ceriodaphnia dubia (water flea)): 18,340 mg/l  
aquatic invertebrates Exposure time: 48 h  
Test Type: static test

Toxicity to algae/aquatic : ErC50 (Raphidocelis subcapitata (freshwater green alga)):  
plants 19,000 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : NOEC: 13,020 mg/l  
aquatic invertebrates (Chron- Exposure time: 7 d  
ic toxicity) Species: Ceriodaphnia dubia (Water flea)  
Test Type: semi-static test

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### 12.2 Persistence and degradability

#### Components:

##### **difenoconazole (ISO):**

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 1 d  
Remarks: Product is not persistent.

##### **paclobutrazol (ISO):**

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 167 - 1,378 d  
Remarks: Persistent in water.

##### **toluene:**

Biodegradability : Result: Readily biodegradable.

##### **1,2-benzisothiazol-3(2H)-one:**

Biodegradability : Result: Not readily biodegradable.

##### **propane-1,2-diol:**

Biodegradability : Result: Readily biodegradable.

### 12.3 Bioaccumulative potential

#### Components:

##### **difenoconazole (ISO):**

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-  
octanol/water : log Pow: 4.4 (25 °C)

##### **paclobutrazol (ISO):**

Bioaccumulation : Remarks: Does not bioaccumulate.

##### **toluene:**

Bioaccumulation : Remarks: Does not bioaccumulate.

##### **1,2-benzisothiazol-3(2H)-one:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

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### 12.4 Mobility in soil

#### Components:

##### **difenoconazole (ISO):**

Distribution among environmental compartments : Remarks: Slightly mobile in soils  
Stability in soil : Dissipation time: 122 d  
Percentage dissipation: 50 % (DT50)  
Remarks: Product is not persistent.

##### **paclobutrazol (ISO):**

Distribution among environmental compartments : Remarks: Moderately mobile in soils  
Stability in soil : Dissipation time: 43 - 634 d  
Percentage dissipation: 50 % (DT50)  
Remarks: Persistent in soil.

### 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:

##### **difenoconazole (ISO):**

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

##### **paclobutrazol (ISO):**

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

##### **methanol:**

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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### 1,2-benzisothiazol-3(2H)-one:

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

### 12.6 Other adverse effects

Endocrine disrupting potential : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

#### Components:

#### **difenoconazole (ISO):**

Endocrine disrupting potential : Substance does not have endocrine disrupting properties.

#### **paclobutrazol (ISO):**

Endocrine disrupting potential : Substance does not have endocrine disrupting properties.  
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.

## SECTION 14: Transport information

### 14.1 UN number

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

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**IATA** : UN 3082

### 14.2 UN proper shipping name

**ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(DIFENOCONAZOLE, PACLOBUTRAZOL)

**RID** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(DIFENOCONAZOLE, PACLOBUTRAZOL)

**IMDG** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(DIFENOCONAZOLE, PACLOBUTRAZOL)

**IATA** : Environmentally hazardous substance, liquid, n.o.s.  
(DIFENOCONAZOLE, PACLOBUTRAZOL)

### 14.3 Transport hazard class(es)

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

### 14.4 Packing group

**ADR**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)  
Remarks : This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

**RID**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Remarks : This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

**IMDG**  
Packing group : III

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Labels : 9  
EmS Code : F-A, S-F  
Remarks : This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

### IATA (Cargo)

Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous  
Remarks : This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

### IATA (Passenger)

Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous  
Remarks : This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

## 14.5 Environmental hazards

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : 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 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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### SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Conditions of restriction for the following entries should be considered: Number on list 3
		Number on list 48: toluene
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EU) No 2024/590 on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	:	Not applicable
Control of Major Accident Hazards Regulations 2015 (COMAH)	E1	ENVIRONMENTAL HAZARDS
Volatile organic compounds	:	Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control) Not 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.
H301	:	Toxic if swallowed.
H302	:	Harmful if swallowed.
H304	:	May be fatal if swallowed and enters airways.
H311	:	Toxic in contact with skin.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H330	:	Fatal if inhaled.

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H331 : Toxic if inhaled.  
H332 : Harmful if inhaled.  
H336 : May cause drowsiness or dizziness.  
H361d : Suspected of damaging the unborn child.  
H370 : Causes damage to organs.  
H373 : May cause damage to organs through prolonged or repeated exposure.  
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  
Asp. Tox. : Aspiration hazard  
Carc. : Carcinogenicity  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
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

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 popula-

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## TOPREX

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tion; 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; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Repr. 2	H361d
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

#### Classification procedure:

Calculation method
Calculation method
Based on product data or assessment

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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GB / 6N