

**INSTRATA ELITE**

Version 1.0      Revision Date: 21.02.2025      SDS Number: S00036476970      Date of last issue: -  
Date of first issue: 21.02.2025

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**Section 1: Identification**

Product name : INSTRATA ELITE

Design code : A20323D

**Manufacturer or supplier's details**

Company : Syngenta Crop Protection Limited

Address : Level 4, 60 Parnell Road, Parnell  
Auckland  
New Zealand

Telephone : 09-306 1500 (weekdays)

Emergency telephone number : 0800 POISON (0800 764766) (National Poisons & Hazchem  
Information Centre)  
0800 734 607(Syngenta - 24 hours)

Telefax : None

**Recommended use of the chemical and restrictions on use**

Recommended use : Fungicide

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**Section 2: Hazard identification****GHS Classification**

Hazardous to the aquatic environment - chronic hazard : Category 1

Specific target organ toxicity - repeated exposure : Category 2

**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : H373 May cause damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P260 Do not breathe mist.

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**Response:**

P314 Get medical advice/ attention if you feel unwell.

P391 Collect spillage.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards which do not result in classification**

None known.

### Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
propane-1,2,3-triol	56-81-5	>= 10 -< 20
fludioxonil (ISO)	131341-86-1	>= 2.5 -< 10
difenoconazole (ISO)	119446-68-3	>= 2.5 -< 10
disodium do-decyl(sulphonatophenoxy)benzenesulphonate	28519-02-0	>= 1 -< 2.5
bronopol (INN)	52-51-7	>= 0.025 -< 0.1

### Section 4: 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.
- Most important symptoms and effects, both acute and delayed : Nonspecific  
No symptoms known or expected.
- Notes to physician : There is no specific antidote available.  
Treat symptomatically.

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**Section 5: Fire-fighting measures**

- 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.
- 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>)  
Fluorine compounds  
Chlorine compounds  
Sulphur oxides
- Specific extinguishing methods : Do not allow run-off from fire fighting to enter drains or water courses.  
Cool closed containers exposed to fire with water spray.
- Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.
- Hazchem Code : 3Z

**Section 6: Accidental release measures**

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
- 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.
- Methods and materials for containment and 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

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/ national regulations (see section 13).  
Clean contaminated surface thoroughly.  
Clean with detergents. Avoid solvents.  
Retain and dispose of contaminated wash water.

### Section 7: Handling and storage

- 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.
- Conditions for safe storage : 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.

### Section 8: Exposure controls/personal protection

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
propane-1,2,3-triol	56-81-5	WES-TWA (Mist)	10 mg/m <sup>3</sup>	NZ OEL
fludioxonil (ISO)	131341-86-1	TWA	5 mg/m <sup>3</sup>	Syngenta
		TWA (Inhalable particulate matter)	1 mg/m <sup>3</sup>	ACGIH
difenoconazole (ISO)	119446-68-3	TWA	5 mg/m <sup>3</sup>	Syngenta

- Engineering measures** : THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

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.

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### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

#### 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.

Eye protection : No special protective equipment required.  
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

Protective measures : The use of technical measures should always have priority over the use of personal protective equipment.  
When selecting personal protective equipment, seek appropriate professional advice.

Personal protective equipment should comply with relevant national standards

### Section 9: Physical and chemical properties

Appearance : liquid  
Colour : white  
Odour : No data available  
Odour Threshold : No data available  
pH : 7.3  
Concentration: 100 %w/v  
Melting point/freezing point : No data available

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Initial boiling point and boiling range : No data available

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 : 1.1 g/cm<sup>3</sup> (25 °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 : 425 °C

Decomposition temperature : No data available

Viscosity  
Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

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

Particle characteristics  
Particle size : No data available

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**Section 10: Stability and reactivity**

Reactivity : None reasonably foreseeable.

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Chemical stability : Stable under normal conditions.  
Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.  
Conditions to avoid : No decomposition if used as directed.  
Incompatible materials : None known.  
Hazardous decomposition products : No hazardous decomposition products are known.

**Section 11: Toxicological information**

Exposure routes : 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): > 2.65 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

**Components:****propane-1,2,3-triol:**

Acute oral toxicity : LD50 (Rat, female): > 4,000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat, male): > 2.75 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat, female): > 5,000 mg/kg

**fludioxonil (ISO):**

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

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Acute inhalation toxicity : LC50 (Rat, male and female): > 2.6 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

**difenoconazole (ISO):**

Acute oral toxicity : LD50 (Rat, male and female): 1,453 mg/kg

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

**bronopol (INN):**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Exposure time: 6 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after single contact with skin.

**Skin corrosion/irritation**

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

**Product:**

Species : Rabbit  
Result : No skin irritation

**Components:****propane-1,2,3-triol:**

Species : Rabbit  
Result : No skin irritation

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**fludioxonil (ISO):**

Species	:	Rabbit
Result	:	No skin irritation

**difenoconazole (ISO):**

Species	:	Rabbit
Result	:	No skin irritation

**bronopol (INN):**

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:****propane-1,2,3-triol:**

Species	:	Rabbit
Result	:	No eye irritation

**fludioxonil (ISO):**

Species	:	Rabbit
Result	:	No eye irritation

**difenoconazole (ISO):**

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

**disodium dodecyl(sulphonatophenoxy)benzenesulphonate:**

Result	:	Risk of serious damage to eyes.
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**bronopol (INN):**

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

**Respiratory or skin sensitisation****Skin sensitisation**

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

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**Respiratory sensitisation**

Not classified due to lack of data.

**Product:**

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

**Components:****propane-1,2,3-triol:**

Species	:	Guinea pig
Result	:	Not a skin sensitizer.

**fludioxonil (ISO):**

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

**difenoconazole (ISO):**

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

**bronopol (INN):**

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

**Chronic toxicity****Germ cell mutagenicity**

Not classified due to lack of data.

**Components:****propane-1,2,3-triol:**

Germ cell mutagenicity - Assessment	:	In vitro tests did not show mutagenic effects
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**fludioxonil (ISO):**

Germ cell mutagenicity - Assessment	:	Animal testing did not show any mutagenic effects.
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**difenoconazole (ISO):**

Germ cell mutagenicity - Assessment	:	Animal testing did not show any mutagenic effects.
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**bronopol (INN):**

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

Not classified due to lack of data.

#### Components:

##### propane-1,2,3-triol:

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

##### fludioxonil (ISO):

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

##### difenoconazole (ISO):

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

##### bronopol (INN):

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

### Reproductive toxicity

Not classified due to lack of data.

#### Components:

##### propane-1,2,3-triol:

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

##### fludioxonil (ISO):

Reproductive toxicity - Assessment : No toxicity to reproduction

##### difenoconazole (ISO):

Reproductive toxicity - Assessment : No toxicity to reproduction

##### bronopol (INN):

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.

##### bronopol (INN):

Assessment : The substance or mixture is classified as specific target organ

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toxicant, single exposure, category 3 with respiratory tract irritation.

**STOT - repeated exposure**

Not classified due to lack of data.

**Components:****propane-1,2,3-triol:**

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

**fludioxonil (ISO):**

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

**difenoconazole (ISO):**

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

**bronopol (INN):**

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

**Aspiration toxicity**

Not classified due to lack of data.

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**Section 12: Ecological information****Ecotoxicity****Product:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 8.1 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 15 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 8.2 mg/l  
Exposure time: 72 h

EC10 (Raphidocelis subcapitata (freshwater green alga)): 4.5 mg/l  
End point: Growth rate  
Exposure time: 72 h

NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.5

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mg/l  
End point: Growth rate  
Exposure time: 72 h

### Components:

#### **fludioxonil (ISO):**

- |  |   |  |
|--|---|--|
| Toxicity to fish   | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 0.23 mg/l<br>Exposure time: 96 h   |
|  |   | LC50 (Pimephales promelas (fathead minnow)): 0.7 mg/l<br>Exposure time: 96 h   |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 (Daphnia magna (Water flea)): 0.4 mg/l<br>Exposure time: 48 h   |
|  |   | EC50 (Americamysis): 0.27 mg/l<br>Exposure time: 96 h  |
| Toxicity to algae/aquatic plants                                       | : | ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0.259 mg/l<br>Exposure time: 96 h                          |
|  |   | EC10 (Raphidocelis subcapitata (freshwater green alga)): 0.077 mg/l<br>End point: Growth rate<br>Exposure time: 96 h |
|  |   | ErC50 (Skeletonema costatum (marine diatom)): 0.43 mg/l<br>Exposure time: 96 h                                       |
|  |   | NOEC (Skeletonema costatum (marine diatom)): 0.14 mg/l<br>End point: Growth rate<br>Exposure time: 96 h              |
| M-Factor (Acute aquatic toxicity)                                      | : | 1  |
| Toxicity to fish (Chronic toxicity)                                    | : | NOEC (Oncorhynchus mykiss (rainbow trout)): 0.04 mg/l<br>Exposure time: 28 d   |
|  |   | EC10 (Pimephales promelas (fathead minnow)): 0.018 mg/l<br>Exposure time: 116 d                                      |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia magna (Water flea)): 0.035 mg/l<br>Exposure time: 21 d   |
|  |   | NOEC (Americamysis): 0.018 mg/l<br>Exposure time: 28 d   |
| Toxicity to microorganisms   | : | EC50 (activated sludge): > 1,000 mg/l<br>Exposure time: 3 h  |

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- Toxicity to soil dwelling organisms : LC50 (*Eisenia fetida* (earthworms)): > 1,000 mg/kg  
Exposure time: 14 d
- EC50 (*Eisenia fetida* (earthworms)): Calculated value > 100 mg/kg  
Exposure time: 14 d
- Toxicity to terrestrial organisms : LD50 (*Colinus virginianus* (Bobwhite quail)): > 2,000 mg/kg  
Exposure time: 14 d  
End point: Acute oral toxicity
- LD50 (*Apis mellifera* (bees)): > 100 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity
- LD50 (*Apis mellifera* (bees)): > 100 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity
- 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  
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 fish (Chronic toxicity) : EC10 (*Pimephales promelas* (fathead minnow)): 0.01298 mg/l  
Exposure time: 34 d
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (*Daphnia magna* (Water flea)): 0.0078 mg/l  
Exposure time: 21 d
- EC10 (*Americamysis*): 0.00572 mg/l

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	Exposure time: 28 d
M-Factor (Chronic aquatic toxicity)	: 10
Toxicity to microorganisms	: EC50 (activated sludge): > 100 mg/l Exposure time: 3 h
Toxicity to soil dwelling organisms	: LC50 (Eisenia fetida (earthworms)): > 610 mg/kg Exposure time: 14 d
	EC50 (Eisenia fetida (earthworms)): Calculated value > 61 mg/kg Exposure time: 14 d
Toxicity to terrestrial organisms	: LD50 (Coturnix japonica (Japanese quail)): > 2,000 mg/kg Exposure time: 14 d End point: Acute oral toxicity
	LD50 (Apis mellifera (bees)): > 75.9 µg/bee Exposure time: 48 h End point: Acute oral toxicity
	LD50 (Apis mellifera (bees)): > 200 µg/bee Exposure time: 48 h End point: Acute contact toxicity

### disodium dodecyl(sulphonatophenoxy)benzenesulphonate:

#### Ecotoxicology Assessment

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

#### bronopol (INN):

Toxicity to algae/aquatic plants	: NOEC (algae): 0.0025 mg/l Exposure time: 72 h
	EC50 (algae): 0.068 mg/l Exposure time: 72 h

M-Factor (Acute aquatic toxicity)	: 10
M-Factor (Chronic aquatic toxicity)	: 1

#### Persistence and degradability

#### Components:

#### fludioxonil (ISO):

Biodegradability	: Result: Not readily biodegradable.
Stability in water	: Degradation half life: 450 - 700 d

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Remarks: Persistent in water.

### difenoconazole (ISO):

Biodegradability : Result: Not readily biodegradable.

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

### bronopol (INN):

Biodegradability : Result: Readily biodegradable.

### Bioaccumulative potential

#### Components:

#### fludioxonil (ISO):

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 4.12 (25 °C)

#### difenoconazole (ISO):

Bioaccumulation : Remarks: Does not bioaccumulate.

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

### Mobility in soil

#### Components:

#### fludioxonil (ISO):

Distribution among environmental compartments : Remarks: immobile

Stability in soil : Dissipation time: 14 d  
Percentage dissipation: 50 % (DT50)  
Remarks: Product is not persistent.

#### 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.

### Other adverse effects

#### Components:

#### fludioxonil (ISO):

Results of PBT and vPvB assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).  
Substance is not very persistent and very bioaccumulative

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(vPvB).

**difenoconazole (ISO):**

Results of PBT and vPvB assessment : Substance is not persistent, bioaccumulative, and toxic (PBT). Substance is not very persistent and very bioaccumulative (vPvB).

### Section 13: Disposal considerations

**Disposal methods**

Waste from residues : Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.  
Refer to the product label for specific disposal/recycling information  
Otherwise, dispose of waste at an approved landfill or other approved facility that will ensure the substance does not exceed the tolerable exposure limit (TEL) or environmental exposure limit (EEL), where relevant, or will treat the substance so that it is rendered no longer hazardous.

Contaminated packaging : Empty remaining contents.  
Triple rinse containers.  
Add rinsings to spray tank  
Recycle empty container through Agrecovery (0800 247 326, [www.agrecovy.co.nz](http://www.agrecovy.co.nz)).  
Empty containers can be landfilled, when in accordance with the local regulations.  
Do not re-use empty containers.

### Section 14: Transport information

**International Regulations****UNRTDG**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUDIOXONIL, DIFENOCONAZOLE)  
Class : 9  
Packing group : III  
Labels : 9  
Environmentally hazardous : yes  
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-DGR**

**INSTRATA ELITE**

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UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(FLUDIOXONIL, DIFENOCONAZOLE)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964  
Environmentally hazardous : yes  
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-Code**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(FLUDIOXONIL, DIFENOCONAZOLE)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes  
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.

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

Not applicable for product as supplied.

**National Regulations****NZS 5433**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(FLUDIOXONIL, DIFENOCONAZOLE)  
Class : 9  
Packing group : III  
Labels : 9  
Hazchem Code : 3Z  
Marine pollutant : yes

**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.

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**Section 15: Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****HSNO Approval Number**

HSR101610

## Tolerable Exposure Limits (TEL)

Not applicable

## Environmental Exposure Limits (EEL)

Not applicable

**HSW Controls**

Certified handler certificate not required.

Tracking hazardous substance not required.

Record keeping is required

Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

**Section 16: Other information**

Revision Date : 21.02.2025  
Date format : dd.mm.yyyy

**Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
NZ OEL : New Zealand. Workplace Exposure Standards for Atmospheric Contaminants  
Syngenta : Syngenta Occupational Exposure Limit  
  
ACGIH / TWA : 8-hour, time-weighted average  
NZ OEL / WES-TWA : Workplace Exposure Standard - Time Weighted average  
Syngenta / TWA : Time weighted average

AllC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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

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Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - 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; WHMIS - Workplace Hazardous Materials Information System

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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