


GROUP 7 | 12 | 3 FUNGICIDES
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A flowable concentrate for seed treatment containing 25 g/litre sedaxane, 25 g/l fludioxonil and 20 g/l triticonazole.

Product registration number: PCS No. 06153
 UFI: YN7X-45UT-S00Y-PVD0

VIBRANCE® Star is a seed treatment for the control of a wide range of diseases in wheat, barley, triticale, oats and rye.

Authorisation Holder	Marketing Company
Syngenta UK Ltd CPC4, Capital Park, Fulbourn, Cambridge, CB21 5XE, England Tel: +44 (0)1223 883400	Syngenta Ireland Limited Block 6, Cleaboy Business Park, Old Kilmeaden Road, Waterford, Ireland Tel: (051) 377203

In case of toxic or transport emergency ring +44 (0) 1484 538444 (24hr)

PROTECT FROM FROST
 MIX THOROUGHLY BEFORE USE

Containers should be handled only by mechanical means

200 litres

Product names marked ® or ™, the ALLIANCE FRAME, the SYNGENTA Logo and the PURPOSE ICON are Trademarks of a Syngenta Group Company

FOR PROFESSIONAL USE ONLY

To avoid risks to human health and the environment comply with the instructions for use.

VIBRANCE® Star is a flowable concentrate for seed treatment containing 25 g/litre sedaxane, 25 g/l fludioxonil and 20 g/l triticonazole.



Warning

May cause an allergic skin reaction.

Suspected of causing cancer.

Very toxic to aquatic life with long lasting effects.

Obtain special instructions before use.

Avoid breathing mist or vapours.

Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection

IF exposed or concerned: Get medical advice/ attention.

If skin irritation or rash occurs: Get medical advice/ attention.

Collect spillage.

Refer to manufacturer/ supplier for information on recovery/ recycling.

PCS No. 06153 UFI: YN7X-45UT-S00Y-PVD0

CONDITIONS OF USE

FOR USE ONLY AS AN AGRICULTURAL SEED TREATMENT

Crops	Maximum individual dose (litres/tonne)	Maximum Number of Treatments	Latest time of application
Wheat (seed), barley (seed), triticale (seed), rye (seed)	2	One per batch	Before drilling
Oats (seed)	1.5	One per batch	Before drilling

ADDITIONAL SAFETY INFORMATION

(a) Operator protection

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling the concentrate, contaminated surfaces or treated seed.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when bagging treated seed.

KEEP OUT OF REACH OF CHILDREN

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

WHEN USING, DO NOT EAT, DRINK OR SMOKE

(b) Environmental protection

Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads. To protect birds and wild mammals, the treated seeds must be entirely incorporated in the soil; ensure that the treated seeds are also entirely incorporated at the end of rows. To protect birds and wild mammals, remove any spillages.

(c) Storage and disposal

EMPTY CONTAINER COMPLETELY and dispose of safely.

KEEP IN ORIGINAL CONTAINER tightly closed in a safe place.

DO NOT RE-USE CONTAINER for any purpose.



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PCS No. 06153

UFI: YN7X-45UT-S00Y-PVDO

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WHEN USING, DO NOT EAT, DRINK OR SMOKE

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Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads. To protect birds and wild mammals, the treated seeds must be entirely incorporated in the soil; ensure that the treated seeds are also entirely incorporated at the end of rows. To protect birds and wild mammals, remove any spillages.

(c) Storage and disposal

EMPTY CONTAINER COMPLETELY and dispose of safely.

KEEP IN ORIGINAL CONTAINER tightly closed in a safe place.

DO NOT RE-USE CONTAINER for any purpose.

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be carefully read in order to obtain safe and successful use of this product.

Resistance Management

For advice on resistance management refer to the latest Fungicide Resistance Action Group (FRAG) guidelines.

Since the occurrence of resistance cannot be forecast, neither Syngenta Ireland Limited nor its distributors can accept responsibility for any loss or damage to crops caused by the failure of VIBRANCE® Star to control resistant strains.

DISEASES CONTROLLED

Wheat

VIBRANCE Star is a fungicidal seed treatment for the control of bunt (*Tilletia caries*), foot rot (*Rhizoctonia solani*), loose smut (*Ustilago nuda*), and moderate control of *Fusarium*, *Microdochium spp* and *Septoria spp*.

Barley

VIBRANCE Star will control loose and covered smut (*Ustilago spp.*) and leaf strip (*Pyrenophora graminea*), snow blight (*Typhula incarnata*) and moderate control *Fusarium* and *Microdochium spp.*

Triticale

VIBRANCE Star is a fungicidal seed treatment for moderate control of seedling blight and foot rot (*Microdochium nivale* and *Fusarium spp.*).

Oats

VIBRANCE Star will control loose smut (*Ustilago avenae*).

Rye

VIBRANCE Star will control strip smut (*Urocystis occulta*) and moderate control of seedling blight and foot rot (*Microdochium nivale* and *Fusarium spp.*).

CROP SPECIFIC INFORMATION

For use on all varieties of wheat, barley, triticale, oats and rye.

Timing

Before drilling.

Rates of Use

Wheat, barley, triticale and rye: Apply 2 litres product per tonne of seed.

Oats: Apply 1.5 litres of product per tonne of seed.

APPLICATION

For all bulk containers: Prior to use the drum should be agitated by rolling the drum on its base to ensure uniform distribution of the product in the tank prior to application. This should be done using suitable mechanical means.

VIBRANCE Star should be applied directly to the seed using conventional seed treatment equipment.

Calibrate the application equipment before use. For further advice please contact Syngenta Ireland Ltd.

DRILLING

Seed treated with VIBRANCE Star may affect the flow of the seed through drills. It is therefore important to check the calibration of the drill with VIBRANCE Star treated seed before drilling commences.

STORAGE AFTER TREATMENT

Sowing treated seed that has been stored for prolonged periods (beyond the season of treatment) may adversely affect effectiveness and/or crop safety.

SEED BAG LABEL TEXT

This seed has been treated with VIBRANCE Star.

VIBRANCE Star contains 25 g/l sedaxane, 25 g/l fludioxonil and 20 g/l triticonazole. VIBRANCE Star is a seed treatment for the control of a wide range of diseases in wheat, barley, triticale, oats and rye.

SAFETY PRECAUTIONS

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS AND GLOVES) when handling treated seed.
BURY OR REMOVE SPILLAGES. To protect game and wildlife, bury or remove spillages.
DO NOT HANDLE seed unnecessarily.
DO NOT USE TREATED SEED as food or feed.
KEEP TREATED SEED SECURE from people, domestic stock/pets and wildlife at all times during storage and use.
SACKS CONTAINING TREAT SEED MUST NOT BE RE-USED FOR food or feed.
WASH HANDS AND EXPOSED SKIN before meals and after work.
DO NOT APPLY TREATED SEED FROM THE AIR.

NOTES

- Safe Handling of treated Seed**
Avoid skin contact with treated seed and dust during all drilling operations. Launder coveralls daily.
- Drilling**
Check drill calibration before drilling for each batch of seed to ensure an accurate drilling rate. Avoid adverse seedbed conditions and deep or shallow drilling which may adversely affect crop establishment and reduce the level of pest control.
- Storage**
Seed should be stored in a cool, dry, well ventilated building and be drilled as soon as possible after treatment. Drill within the season of treatment.
- Seed Spillages**
In case of seed spillage, clean up as much as possible into the related seed sack and re-use the clean seed. Bury the remainder completely.

Section 6 of the Health and Safety at Work Act Additional Product Safety Information

(This section does not form part of the product label under the Plant Protection Products Regulations 1985.)

The product label provides information on a specific pesticidal use of this product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has 'extension of use' approval as otherwise permitted under the Plant Protection Products Regulations.

The information on this label is based on the best available information including data from test results.

SAFETY DATA SHEET - V7.0

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

1.1 Product Identifier

Trade name: VIBRANCE Star

Design code: A20882A

Product Registration Number: PCS 06153

Unique Formula Identifier (UFI): YN7X-45UT-S00Y-PVDC

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
Phone: (051) 377203
Fax: (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)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Sub-category 1B - H317: May cause an allergic skin reaction.




Carcinogenicity, Category 2 - H351: Suspected of causing cancer.

Long-term (chronic) aquatic hazard, Category 1 - H410: Very toxic to aquatic life with long lasting effects.

Carcinogenicity, Category 2 - H351: Suspected of causing cancer.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms		
		
Signal Word	Warning	
Hazard Statements	H317	May cause an allergic skin reaction.
	H351	Suspected of causing cancer.
	H410	Very toxic to aquatic life with long lasting effects.
Precautionary Statements	P201	Obtain special instructions before use.
	P261	Avoid breathing mist or vapours.
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
	P308+P313	IF exposed or concerned: Get medical advice/ attention.
	P333+P313	If skin irritation or rash occurs: Get medical advice/ attention.
	P391	Collect spillage.
P502	Refer to manufacturer/ supplier for information on recovery/ recycling.	

Hazardous components which must be listed on the label:

- sedaxane
- 1,2-benzisothiazol-3(2H)-one

Additional Labelling

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

2.3 Other hazards

This substance/mixture contains no component 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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Components

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Poly(oxy-1,2-ethanediyl), alpha-sulfo- omega -[tris(1-phenyl ethyl) phenoxy]- ammonium salt	119432-41-6	Eye Dam. 1; H318 Aquatic Chronic 3; H412 Aquatic Chronic 3; H412	>= 2.5 - < 10
sedaxane	874967-67-6 616-235-00-2	Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	>= 1 - < 2.5
fludioxonil (ISO)	131341-86-1 608-069-00-4	Aquatic Acute1; H400 Aquatic Chronic1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	>= 1 - < 2.5

triticonazole (ISO)	131983-72-7 613-282-00-0	Repr. 2; H361f STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 1 - < 2.5
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6 01-2120761540-60	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1 specific concentration limit Skin Sens. 1; H317 >= 0.05 %	>= 0.025 - < 0.05
bronopol (INN)	52-51-7 200-143-0 603-085-00-8 01-2119980938-15	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	>= 0.025 - < 0.1

For explanation of abbreviations see section 16.

4. FIRST-AID MEASURES

4.1 Description of first aid measures

General Advice: Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control centre 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 reuse.

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.

5. FIRE-FIGHTING 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 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 fire-fighters

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.

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 materials 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

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

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 feedings stuffs.

7.3 Specific end uses

Specific use(s) : For proper and safe use of this product, please refer to the approved conditions laid down on the product label.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
propane-1,2-diol	57-55-6	OELV - 8 hrs (TWA) (particles)	10 mg/m ³	IE OEL
		OELV - 8 hrs (TWA) (total (vapour and particles))	150 ppm 470 mg/m ³	IE OEL
sedaxane	874967-67-6	TWA	2 mg/m ³	SYNGENTA
fludioxonil	131341-86-1	TWA	5 mg/m ³	SYNGENTA

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1507/2006

Substance name	End use	Exposure routes	Potential health effects	Value
propane-1,2-diol	Workers	Inhalation	Long-term systemic effects	168 mg/m ³
	Consumers	Inhalation	Long-term local effects	10 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	30 mg/m ³
	Workers	Inhalation	Long-term local effects	10 mg/m ³
calcium 4-[[[5-chloro-4-methyl-2-sulphonatophenyl]azo]-3-hydroxy-2-naphthoate	Workers	Inhalation	Systemic effects	4.4 mg/m ³
	Workers	Dermal	Systemic effects	0.57 mg/kg bw/day
	Consumers	Inhalation	Systemic effects	1.1 mg/m ³
	Consumers	Dermal	Systemic effects	0.2 mg/kg bw/day
	Consumers	Oral	Systemic effects	0.6 mg/kg bw/day
bronopol (INN)	Workers	Inhalation	Long-term systemic effects	3.5 mg/m ³
	Workers	Inhalation	Acute systemic effects	10.5 mg/m ³
	Workers	Inhalation	Long-term local effects	2.5 mg/m ³
	Workers	Inhalation	Acute local effects	2.5 mg/m ³
	Workers	Dermal	Long-term systemic effects	2 mg/kg
	Workers	Dermal	Acute systemic effects	6 mg/kg
	Workers	Dermal	Long-term local effects	0.008 mg/cm ²
	Workers	Dermal	Acute local effects	0.008 mg/cm ²
	Consumers	Inhalation	Long-term systemic effects	0.6 mg/m ³

Substance name	End Use	Exposure routes	Potential health effects	Value
	Consumers	Inhalation	Acute systemic effects	1.8 mg/m3
	Consumers	Inhalation	Long-term local effects	0.6 mg/m3
	Consumers	Inhalation	Acute local effects	0.6 mg/m3
	Consumers	Dermal	Long-term systemic effects	0.7 mg/kg
	Consumers	Dermal	Acute systemic effects	2.1 mg/kg
	Consumers	Dermal	Long-term local effects	0.004 mg/cm2
	Consumers	Dermal	Acute local effects	0.004 mg/cm2
	Consumers	Oral	Long-term systemic effects	0.18 mg/kg
	Consumers	Oral	Acute systemic effects	0.5 mg/kg
1,2-benzisothiazol-3(2H)-one	Workers	Inhalation	Long-term systemic effects	6.81 mg/m3
	Workers	Dermal	Long-term systemic effects	0.966 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1.2 mg/m3
	Consumers	Dermal	Long-term systemic effects	0.345 mg/kg

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

Substance name	Environmental Compartment	Value
propane-1,2-diol	Fresh water	260 mg/l
	Marine water	26 mg/l
	Intermittent use/release	183 mg/l
	Sewage treatment plant	20000 mg/l
	Marine sediment	57.9 mg/kg
	Fresh water sediment	172 mg/kg
bronopol (INN)	Soil	50 mg/kg
	Fresh water	0.01 mg/l
	Marine water	0.001 mg/l
	Freshwater - intermittent	0.003 mg/l
	Sewage treatment plant	0.43 mg/l
	Fresh water sediment	0.041 mg/kg
1,2-benzisothiazol-3(2H)-one	Marine sediment	0.003 mg/kg
	Soil	0.5 mg/kg
	Fresh water	0.00403 mg/l
	Marine water	0.00403 mg/l
	Sewage treatment plant	1.03 mg/l
	Fresh water sediment	0.0499 mg/kg
1,2-benzisothiazol-3(2H)-one	Marine sediment	0.00499 mg/kg
	Freshwater - intermittent	0.0011 mg/l
	Marine water - intermittent	0.000110 mg/l
	Fresh water - intermittent	0.000110 mg/l
	Soil	3 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. If airborne mist or vapours are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

Eye protection : No special protective equipment required.

Hand protection

Material : Nitrile rubber

Break through time : > 480 min

Glove thickness : 0.5 mm

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

for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Remove and wash contaminated clothing before re-use.

Wear as appropriate: Impervious clothing

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

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

Environmental exposure controls

Water : 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : suspension

Colour : light red to dark red

Odour : No data available

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 : Method: Pensky-Martens closed cup, does not flash

Auto-ignition temperature : 460 °C

Decomposition temperature : No data available

pH : 7-3, Concentration: 100 % w/v

Viscosity, kinematic : No data available

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: octanol/ water: No data available

Vapour pressure : No data available

Density : 1.06 g/cm³

Relative vapour density : No data available

Particle size : No data available

9.2 Other Information

Explosives : Not explosive

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

Evaporation rate : No data available

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

Hazardous decomposition products: No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

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

Acute toxicity

Product:

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.14 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on data from similar materials

Components:

sedaxane:

Acute oral toxicity : LD50 (Rat, female): 5,000 mg/kg
Acute inhalation toxicity : LC50 (Rat, male and female): > 5.244 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
LD50 (Rat, male and female): > 5,000 mg/kg

Acute dermal toxicity:

fludioxonil (ISO):

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
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
LD50 (Rat, male and female): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Acute dermal toxicity :

triticonazole (ISO):

Acute oral toxicity: LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity: LC50 (Rat): > 5.24 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Acute dermal toxicity:

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

Acute oral toxicity : LD50 (Rat, male): 670 mg/kg
Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 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 dermal toxicity: Assessment: The component/mixture is moderately toxic after single contact with skin.

Skin corrosion/irritation

Product:

Species: Rabbit
Result: No skin irritation
Remarks : Based on data from similar materials

Components:

sedaxane:

Species: Rabbit
Result: No skin irritation

fludioxonil (ISO):

Species: Rabbit
Result: No skin irritation

triconazole (ISO):

Species: Rabbit

Result: No skin irritation

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

Result: Irritating to skin.

bronopol (INN):

Result: Irritating to skin.

Serious eye damage/eye irritation

Components:

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

Result : Risk of serious damage to eyes.

sedaxane:

Species: Rabbit

Result: No eye irritation

fludioxonil (ISO):

Species: Rabbit

Result: No eye irritation

triconazole (ISO):

Species: Rabbit

Result: No eye irritation

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

Result: Risk of serious damage to eyes.

bronopol (INN):

Result: Risk of serious damage to eyes.

Respiratory or skin sensitisation

Product:

Test Type : Local lymph node assay (LLNA)

Species : Mouse

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

Remarks : Based on data from similar materials

Components:

sedaxane:

Test Type : Local lymph node assay (LLNA)

Species : Mouse

Result : Not a skin sensitizer.

fludioxonil (ISO):

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

triconazole (ISO):

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

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

Result: Probability or evidence of skin sensitisation in humans

Germ cell mutagenicity

Components:

sedaxane:

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

fludioxonil (ISO):

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

triconazole (ISO):

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.

Carcinogenicity

Components:

sedaxane:

Carcinogenicity - Assessment: Weight of evidence does not support classification as a carcinogen, At extremely high doses, numerically higher incidences of uterine, thyroid and liver tumors (male and/or female rats) and liver tumors (male mice) were within the range of normal background variation and thus

considered unrelated to treatment. Some Regulatory Authorities have taken a more conservative position that these high-dose findings are treatment-related in rats and mice. The dose levels where these findings occur are not relevant to human exposure levels.

fludioxonil (ISO):

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

triconazole (ISO):

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

Reproductive toxicity

Components:

sedaxane:

Reproductive toxicity - Assessment: No toxicity to reproduction

fludioxonil (ISO):

Reproductive toxicity - Assessment: No toxicity to reproduction.

triconazole (ISO):

Reproductive toxicity - Assessment: Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

STOT - single exposure

Components:

bronopol (INN):

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

STOT - repeated exposure

Components:

sedaxane:

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.

triconazole (ISO):

Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

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.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Product:

Toxicity to daphnia and other aquatic invertebrates:

EC50 (*Daphnia magna* (Water flea)): 57.9 mg/l
Exposure time: 48 h

Components:

poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-[bis(4-phenylthyl)phenoxy]-, ammonium salt:

Toxicity to fish:

LC50 (*Oncorhynchus mykiss* (rainbow trout)): 33 mg/l
Exposure time: 6 h

Toxicity to daphnia and other aquatic invertebrates:

EC50 (*Daphnia magna* (Water flea)): 24 mg/l
Exposure time: 48 h

sedaxane:

Toxicity to fish :

LC50 (*Cyprinus carpio* (Carp)): 0.62 mg/l
Exposure time: 96 h
LC50 (*Pimephales promelas* (fathead minnow)): 0.98 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50 (*Daphnia magna* (Water flea)): 6.10 mg/l
Exposure time: 48 h

Toxicity to algae :

ErC50 (*Pseudokirchneriella subcapitata* (green algae)): 3 mg/l
Exposure time: 96 h
NOEC (*Pseudokirchneriella subcapitata* (green algae)): 1 mg/l
End point: Growth rate
Exposure time: 96 h

ErC50 (*Lemna gibba* (gibbous duckweed)): 6.5 mg/l
Exposure time: 7 d
NOEC (*Lemna gibba* (gibbous duckweed)): 0.59 mg/l
End point: Growth rate
Exposure time: 7 d

M-Factor (Acute aquatic toxicity):

1

Toxicity to fish (Chronic toxicity):

NOEC: 0.165 mg/l
Exposure time: 33 d
Species: *Pimephales promelas* (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):

NOEC: 0.82 mg/l
Exposure time: 21 d
Species: *Daphnia magna* (Water flea)

fludioxonil (ISO):

Toxicity to fish :

LC50 (*Oncorhynchus mykiss* (rainbow trout)): 0.23 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50 (*Daphnia magna* (Water flea)): 0.4 mg/l
Exposure time: 48 h

Toxicity to algae :

ErC50 (*Pseudokirchneriella subcapitata* (green algae)): > 0.44 mg/l
Exposure time: 96 h
NOEC (*Pseudokirchneriella subcapitata* (green algae)): 0.132 mg/l
Exposure time: 96 h
ErC50 (*Skeletonema costatum* (marine diatom)): 0.4 mg/l
Exposure time: 96 h
NOEC (*Skeletonema costatum* (marine diatom)): 0.14 mg/l
End point: Growth rate
Exposure time: 96 h

M-Factor (Acute aquatic toxicity):

1

Toxicity to microorganisms :

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

Toxicity to fish (Chronic toxicity):

NOEC: 0.04 mg/l
Exposure time: 26 d
Species: *Oncorhynchus mykiss* (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):

NOEC: 0.03 mg/l
Exposure time: 21 d
Species: *Daphnia magna* (Water flea)

M-Factor (Chronic aquatic toxicity): 1

triticonazole (ISO):

Toxicity to fish:

LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 3.6 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50 (*Daphnia magna* (Water flea)): 9 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants:

EC50 (*Skeletonema costatum* (marine diatom)): 0.31 mg/l
Exposure time: 120 h
NOEC (*Skeletonema costatum* (marine diatom)): 0.031 mg/l
Exposure time: 120 h

1,2-benzothiazol-3(2H)-one:

Toxicity to fish :

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

Toxicity to daphnia and other aquatic invertebrates:

EC50 (*Daphnia magna* (Water flea)): 2.94 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants:

ErC50 (*Raphidocelis subcapitata* (freshwater green algae)): 0.15 mg/l
Exposure time: 72 h

EC10 (Raphidocelis subcapitata (freshwater green alga)): 0.04 mg/l
End point: Growth rate
Exposure time: 72 h
1
NOEC: 0.3 mg/l
Exposure time: 28 d
Species: Oncorhynchus mykiss (rainbow trout)

M-Factor (Acute aquatic toxicity):
Toxicity to fish (Chronic toxicity):

Toxicity to daphnia and other
aquatic invertebrates
(Chronic toxicity):

NOEC: 1.7 mg/l
Exposure time: 21 d
Species: Daphnia (water flea)

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

12.2 Persistence and degradability

Components:

sedaxane:

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: > 1 y

Remarks: Persistent in water.

fludioxonil (ISO):

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 450 - 700 d

Remarks: Persistent in water.

trifluzonazole (ISO):

Biodegradability: Result: Not readily biodegradable.

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

Biodegradability : Result: rapidly degradable

bronopol (INN):

Biodegradability: Result: Readily biodegradable.

12.3 Bioaccumulative potential

Components:

sedaxane:

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: noctanol/water: log Pow: 3.3 (25 °C)

fludioxonil (ISO):

Bioaccumulation : Remarks: Does not bioaccumulate.

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

trifluzonazole (ISO):

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: noctanol/ water: log Pow: 3.29

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

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

12.4 Mobility in soil

Components:

sedaxane:

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

Stability in soil : Percentage dissipation: 50 % (DT50: 83 d)

Remarks: Product is not persistent.

fludioxonil (ISO):

Distribution among environmental compartments: Remarks: immobile

Stability in soil : Percentage dissipation: 50 % (DT50: 14 d)

Remarks: Product is not persistent.

triconazole (ISO):

Stability in soil : Dissipation time: 181 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:**sedaxane:**

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).

fludioxonil (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).

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

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

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

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

14. TRANSPORT INFORMATION**14.1 UN 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. (FLUDIOXONIL AND SEDAXANE)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUDIOXONIL AND SEDAXANE)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUDIOXONIL AND SEDAXANE)

IATA : Environmentally hazardous substance, liquid, n.o.s. (FLUDIOXONIL AND SEDAXANE)

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

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

Not applicable for product as supplied

15. REGULATORY INFORMATION

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII): Conditions of restriction for the following entries should be considered: Number on list 3 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.

	Quantity 1	Quantity 2
E1 ENVIRONMENTAL HAZARDS	100 t	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. 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.

16. OTHER INFORMATION

Full text of H-Statements

H302 : Harmful if swallowed.
H312: Harmful in contact with skin.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H335: May cause respiratory irritation.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
H411 : 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
Skin Sens.: Skin sensitisation
STOT SE: Specific target organ toxicity - single exposure
IE OEL: Ireland. List of Chemical Agents and Occupational Exposure Limit values - Schedule 1
IE OEL / OELV - 8 hrs (TWA): Occupational exposure limit value (8-hour reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Land Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling 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; IECS - 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; NZIOZ - New Zealand Inventory of Chemicals; OEC - 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; 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:	Classification procedure:
Skin Sens. 1B	H317 Based on product data or assessment
Carc. 2	H351 Calculation method
Aquatic Chronic 1	H410 Calculation method
Carc. 2	H351

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.