

LECTOR DELTA®

A suspension concentrate formulation containing 500 g/l (41.3% w/w) diflufenican and 50 g/l (4.13% w/w) florasulam for the control of cleavers and other broadleaved weeds in winter wheat, winter barley, rye, triticale and spring barley.

IMPORTANT INFORMATION FOR USE ONLY AS AN AGRICULTURAL HERBICIDE

Crop	Maximum Individual Dose (ml product/ha)	Maximum total dose (ml product/ha/year)	Maximum number of treatments:	Latest Time of Application	Aquatic buffer zone distance (m)
Winter wheat, barley, rye, triticale and spring barley	100	100	-	Before third node detectable stage (GS 33)	5

Other Specific Restrictions:

- The maximum total dose of florasulam applied to a cereal crop must not exceed 7.5 g.
- The maximum amount of florasulam applied in the Autumn must not exceed 3.75g.

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

Additional Safety Phrases

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 aquatic organisms respect an unsprayed buffer zone of 5 metres to surface water bodies.

PROTECT FROM FROST

FOR PROFESSIONAL USE ONLY

SHAKE WELL BEFORE USE

Authorisation Holder & Marketing Company

Nufarm UK Limited
Wyke Lane, Wyke, Bradford, West Yorkshire,
BD12 9EJ
United Kingdom
Tel: +44 (0)1274 691234 Fax: +44 (0)1274 691176

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500 ml

Safety Information

WARNING

Very toxic to aquatic life with long lasting effects.

Collect spillage.

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty triple-rinsed containers which can be disposed of as non-hazardous waste.

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

Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction.



PCS No 04926

 **Nufarm**
Grow a better tomorrow

DIRECTIONS FOR USE

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

RESTRICTIONS

- Do not spray when crops are under stress from cold, drought, pest damage, nutrient deficiency etc.
- Do not roll or harrow 7 days before or after application.
- Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

Crop Failure

In the event of crop failure in the spring after an application of LECTOR DELTA®, only the following crops may be planted following cultivation to 20 cm: Spring wheat, spring barley or spring oats.

WEEDS CONTROLLED

Autumn application

LECTOR DELTA® is most effective when applied to small, actively growing weeds. Larger weeds may be less susceptible. For optimum performance, it is important to check the size of weeds before application.

Weed species	Weed control at 75 ml/ha	Rate of Use	Weed control at 75 ml/ha
Black bindweed	Susceptible	Henbit deadnettle	Susceptible
Charlock	Susceptible	Knotgrass	Susceptible
Cleavers	Susceptible	Mayweeds	Susceptible
Common chickweed	Susceptible	Red deadnettle	Susceptible
Common hemp-nettle	Susceptible	Redshank	Moderately susceptible
Common poppy	Susceptible	Shepherd's purse	Susceptible
Fat-hen	Moderately resistant	Speedwell	Susceptible
Field forget-me-not	Susceptible	Toad Rush	Susceptible
Field pansy	Susceptible	Volunteer oilseed rape	Moderately resistant
Field pennycress	Susceptible	Wild pansy	Susceptible
Groundsel	Susceptible	Willowherb	Susceptible

Spring application

LECTOR DELTA® is most effective when applied to small, actively growing weeds. Larger weeds may be less susceptible. For optimum performance, it is important to check the size of weeds before application.

Weed species	Weed control at 100 ml/ha	Weed species	Weed control at 100 ml/ha
Black bindweed	Susceptible	Field pennycress	Susceptible
Charlock	Susceptible	Mayweeds	Susceptible
Cleavers	Susceptible	Red deadnettle	Moderately susceptible
Common chickweed	Susceptible	Redshank	Moderately susceptible
Common hemp-nettle	Susceptible	Shepherd's purse	Susceptible
Fat-hen	Moderately resistant	Speedwell	Moderately resistant
Field forget-me-not	Susceptible	Volunteer oilseed rape	Susceptible
Field pansy	Susceptible	Wild pansy	Susceptible

WEED RESISTANCE

Florasulam is an ALS inhibitor. Herbicide Resistant Weeds Classification (HRAC), B. Diflufenican is a Pyridinecarboxamide. Herbicide Resistant Weeds Classification (HRAC), F1.

Avoid using herbicides with a single mode of action, such as ALS herbicides, in the same fields over a number of years. Growers should apply products containing herbicides with different modes of action or use sequences or tank mixes where two or more components are effective against the target weeds.

Do not apply to weeds where target site resistance to ALS inhibiting herbicides is confirmed.

Always follow the recommendations of the Weed Resistance Action Group (WRAG) with respect to the integration of chemical and cultural control measures.

CROP SPECIFIC INFORMATION

LECTOR DELTA® can be applied in the spring on all varieties of winter wheat, winter barley, rye, triticale and spring barley.

AUTUMN APPLICATION

WINTER WHEAT, WINTER BARLEY, RYE & TRITICALE

Application Rate: One application of up to 75 ml product/ha will control all susceptible emerged weeds.
 Application Timing: Apply once in the autumn when the crop has reached 2 leaves (GS 12), up to and including 2nd node detectable stage (GS 32 inclusive).
 Water volume: 150 - 300 L water/ha.

SPRING APPLICATION

WINTER WHEAT, TRITICALE, RYE AND WINTER AND SPRING BARLEY

Application Rate: One application of up to 100 ml product/ha will control all susceptible emerged weeds.
 Application Timing: Apply in the spring from the beginning of tillering (GS 20) up to and including 2nd node detectable stage (GS 32 inclusive).
 Water volume: 150 - 300 L water/ha.

FOLLOWING CROPS

Crops that can be sown in the same year as a crop treated with LECTOR DELTA® is harvested: cereals, oilseed rape, field beans and vegetable brassicas as transplants.

(Vigour reductions may be seen in the following crops of oilseed rape after a dry summer. This will be outgrown and will not result in yield loss).

Crops that can be sown in the calendar year following treatment with LECTOR DELTA®: Cereals, oilseed rape, field beans, grass, peas, sugar beet, potatoes, maize, and vegetable brassicas as transplants.

Take extreme care to avoid drift onto crops and non-target plants outside the target area.

Occasionally seedlings of brassica crops may exhibit slight discolouration of the cotyledons, which is normally outgrown without affecting subsequent growth. Where diflufenican containing products are applied to successive cereal crops, levels of diflufenican will build up in the soil. Even with ploughing to 150mm and thorough mixing of the soil, there may still be a risk of damage to following crops of onions, leeks, other allium crops and clover. As a precaution, users who rent out their land to growers of these crops should not use diflufenican containing products in successive years before renting out that land.

WATER VOLUME

Apply LECTOR DELTA® in 150-300 l/ha of water.

MIXING

Half fill the spray tank with clean water and add the required amount of LECTOR DELTA®. Add the remainder of the water and continue agitation until spraying is completed.

When tank mixes are to be used, and unless directed otherwise, the preferred order of addition of products to the spray tank is as follows: water, dispersible granules, wettable powders, suspension concentrates, solution concentrates. Each product should be added separately to a half-filled spray tank and fully dispersed before the addition of the next product.

Apply LECTOR DELTA® as a MEDIUM spray as defined by the BCPC system.

TANK CLEANING PROCEDURE

To avoid subsequent injury to crops other than cereals all spraying equipment must be thoroughly cleaned both inside and outside using an ammonia based cleaner as follows:

1. Immediately after spraying drain the tank completely. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
2. Rinse inside the tank with clean water and flush through booms and hoses using at least one tenth of the spray tank volume. Drain tank completely.
3. Half fill the tank with clean water and add the ammonium based cleaner at the recommended rate. Agitate and then briefly flush through the booms and hoses with the cleaning solution. Top up with water making sure the tank is completely full and allow to stand for 15 minutes with agitation. Flush the booms and hoses and drain tank completely.
4. Nozzles and filters should be removed and cleaned separately with the ammonium based cleaning solution containing 50 ml of the ammonium based cleaner per 10 litres of water.
5. Rinse the tank with clean water and flush through the booms and hoses using at least one tenth of the spray tank volume. Drain tank completely.

COMPANY ADVISORY INFORMATION

ACKNOWLEDGMENTS

LECTOR DELTA® is a registered trademark.

CONDITIONS OF SUPPLY

All goods supplied by us are of high grade and we believe them to be suitable but (as we cannot exercise any control over their mixing or use) all conditions and warranties, statutory or otherwise, as to the quality and fitness for any purpose of our goods are excluded, except in so far as such exclusion is prevented by law, and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application or use.

This product is to be used only in accordance with the recommendations and instructions given on the labels provided with this pack. Use in any other circumstances is entirely at users risk.

SAFETY DATA SHEET

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

1.1. Product identifier

CAS Code (Nufarm):	3517
Product code:	Mixture
Trade name:	Lector Delta
Type (Nufarm):	Country Specific
Country (Nufarm):	Ireland

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

1.2.1. Relevant identified uses

Main use category:	Professional use
Use of the substance/mixture:	Herbicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributor

Nufarm UK Limited
Wyke Lane
Wyke
BD12 9EJ Bradford - UK
T +44 (0)1274 691234 - F +44 (0) 1274691176
infouk@uk.nufarm.com

1.4. Emergency telephone number:

Emergency number : +44 (0)1274 696603

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment — H400

Acute Hazard, Category 1

Hazardous to the aquatic environment — H410

Chronic Hazard, Category 1

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP):



GHS09

Signal word (CLP):

Warning

Hazardous ingredients:

DIFLUFENICAN + FLORASULAM

Hazard statements (CLP):

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

Precautionary statements (CLP):

P273 - Avoid release to the environment.

P391 - Collect spillage.

P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

EUH-statements:

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

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

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Diflufenican (ISO); N-(2,4-difluorophenyl)-2-[3-(trifluoromethyl)phenoxy]-3-pyridinecarboxamide	(CAS-No.) 83164-33-4 (EC Index-No.) 616-032-00-9	41	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
FLORASULAM (ISO)	(CAS-No.) 145701-23-1 (EC Index-No.) 613-230-00-7	4	Aquatic Chronic 1, H410
Sodium alkyl/naphthalenesulphonate-formaldehyde condensate	(CAS-No.) 577773-56-9	1-5	Eye Irrit. 2, H319
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	< 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400

Specific concentration limits:

Name	Product identifier	Specific concentration limits
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	(C >= 0.05) Skin Sens. 1, H317

Full text of H-statements: see section 16.

4. FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures after inhalation:

Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact:

If skin irritation or rash occurs: Get medical advice/attention. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact:

Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion:

Rinse mouth out with water. Drink plenty of water. Do NOT induce vomiting. Get immediate medical advice/attention.

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

Symptoms/effects: Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation: None under normal use.

Symptoms/effects after skin contact: None under normal conditions.

Symptoms/effects after eye contact: None under normal conditions.

Symptoms/effects after ingestion: None under normal conditions.

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

Treat symptomatically. Seek immediate medical advice.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Water spray, Dry powder, Foam, Carbon dioxide.
Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire: Toxic fumes may be released. Carbon monoxide, Carbon dioxide, Nitrogen oxides, Hydrogen fluoride, Sulphur dioxide, Fluorinated hydrocarbons.

5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Fight fire from safe distance and protected location.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment: Wear recommended personal protective equipment.
Emergency procedures: Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8 "Exposure controls/personal protection".
Emergency procedures: Advise local authorities if considered necessary.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

For containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Cover spill with non combustible material, e.g.: sand, earth, vermiculite.
Methods for cleaning up: Take up liquid spill into absorbent material.
Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid any leak and work in fully closed specially engineered systems.
Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Take off immediately all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Separate working clothes from town clothes. Launder separately.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store locked up. Store in a well-ventilated place. Keep cool.
Information on mixed storage: Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.
Special rules on packaging: Store in a closed container. Keep only in original container.

7.3. Specific end uses

Herbicide.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

DNEL: Systemic: 0.11 mg/kg bw/day (Diflufenican); 0.05 mg/kg bw/day (Florasulam)
PNEC: Aquatic: 2.5 ng/l (Diflufenican); mg/kg bw/day (Florasulam)

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Insufficient ventilation: wear respiratory protection. Gloves. Safety glasses. Protective clothing.

Materials for protective clothing:

Impermeable clothing.

Condition	Material	Standard
	Polyethylene	

Hand protection:

Protective gloves: Butyl rubber gloves, Nitrile rubber gloves, PVC gloves.

Eye protection:

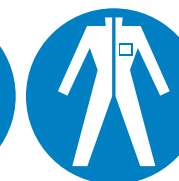
Safety glasses. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment



Environmental exposure controls:

Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Appearance:	Opaque
Colour:	Off-white
Odour:	Characteristic
Odour threshold:	No data available
pH:	4.46 25°C
pH solution concentration:	1% 4.53 @ 25°C
Relative evaporation rate (butylacetate=1):	No data available
Melting point:	Not applicable

Freezing point:	No data available
Boiling point:	No data available
Flash point:	The product is not flammable
Auto-ignition temperature:	> 600 °C
Decomposition temperature:	No data available
Flammability (solid, gas):	Not applicable
Vapour pressure:	Diflufenican : 4.25 x 10E-6 Pa a@ 25°C, 8.19 x 10E-6 Pa at 35°C; Florasulam : 6.55 x 10E-5 Pa at 25°C
Relative vapour density at 20 °C:	No data available
Relative density:	1.22
Solubility:	Miscible with water. Water: Diflufenican < 0.05 mg/l @ 25°C; Florasulam 0.027 g/l @ pH 4, 4.8 g/l @ pH 7, 49 g/l @ pH 9
Log Pow:	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	1446 mPa.s @ 20°C; 1277 mPa.s @ 40°C
Explosive properties:	Product is not explosive.
Oxidising properties:	Non oxidizing material according to EC criteria
Explosive limits:	No data available

9.2. Other information

No additional information available

10. STABILITY AND REACTIVITY

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Heating can release hazardous gases.

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Lector Delta	
LD50 oral rat	> 5000 mg/kg (OECD 425 method)
LD50 dermal rat	> 5000 mg/kg (OECD 402 method)
LC50 inhalation rat (mg/l)	> 3.98 mg/l/4h (OECD 403 method)

Diflufenican (ISO); N-(2,4-difluorophenyl)-2-[3-(trifluoromethyl)phenoxy]-3-pyridinecarboxamide (83164-33-4)	
LD50 oral rat	> 5000 mg/kg (OECD 402 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)
LC50 inhalation rat (mg/l)	> 5.12 mg/l/4h US EPA (1985)

FLORASULAM (ISO) (145701-23-1)	
LD50 oral rat	> 5000 mg/kg (OECD 425 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)
LC50 inhalation rat (mg/l)	> 5.09 mg/l/4h (OECD 403 method)

Sodium alkyl naphthalene sulphonate-formaldehyde condensate (577773-56-9)	
LD50 oral rat	> 5000 mg/kg

1,2-benzisothiazolin-3-one; 1,2-benzisothiazolin-3-one (2634-33-5)	
LD50 oral rat	670 - 784 mg/kg
LD50 dermal rat	> 2000 mg/kg

Acute toxicity (oral):	Not classified.
Acute toxicity (dermal):	Not classified.
Acute toxicity (inhalation):	Not classified.
SK corrosion/irritation:	Slightly irritant but not relevant for classification pH: 4.46 25°C
Serious eye damage/irritation:	Slightly irritant but not relevant for classification pH: 4.46 25°C
Respiratory or skin sensitisation:	Not classified (Based on available data, the classification criteria are not met).
Germ cell mutagenicity:	Not classified (Based on available data, the classification criteria are not met).
Carcinogenicity:	Not classified (Based on available data, the classification criteria are not met).
Reproductive toxicity:	Not classified (Based on available data, the classification criteria are not met).
STP single exposure:	Not classified (Based on available data, the classification criteria are not met).
STP repeated exposure:	Not classified (Based on available data, the classification criteria are not met).

FLORASULAM (ISO) (145701-23-1)	
LOAEL (oral, rat, 90 days)	500 mg/kg bodyweight/day (renal collecting duct hypertrophy)(EU method B).

Aspiration hazard: Not classified (Based on available data, the classification criteria are not met).

12. ECOLOGICAL INFORMATION**12.1. Toxicity**

Ecology - general: Very toxic to aquatic life with long lasting effects.
 Acute aquatic toxicity: Very toxic to aquatic life.
 Chronic aquatic toxicity: Very toxic to aquatic life with long lasting effects.

Lector Delta	
LC50 96h fish	> 100 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 48h crustacea	> 100 mg/l
EC50 72h algae	1.9 µg/L Desmodesmus subspicatus
ErC50 (other aquatic plants)	0.027 mg/l 7 d; (Lemna minor)

Additional Ecotox information**Lector Delta**

14-day LC50 1000 mg/kg dry soil (Eisenia foetida)
 48-h LD50, oral: > 214 µg/bee
 48-h LD50, contact: > 235 µg/bee

diflufenican (ISO); N-(2,4-difluorophenyl)-2-[3-(trifluoromethyl)phenoxy]-3-pyridinecarboxamide (83164-33-4)

LC50 96h fish	> 0.109 Oncorhynchus mykiss (Rainbow trout)
EC50 48h crustacea	> 0.24 mg/l
EC50 72h algae	< 0.001 mg/l Scenedesmus Subspicatus

Additional Ecotox information**FLORASULAM (ISO) (145701-23-1)****Additional Ecotox information****Sodium alkylnaphthalenesulphonate-formaldehyde condensate (577773-56-9)****Additional Ecotox information****1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)****Additional Ecotox information****12.2. Persistence and degradability**

Lector Delta	
Persistence and degradability	Not readily biodegradable.

diflufenican (ISO); N-(2,4-difluorophenyl)-2-[3-(trifluoromethyl)phenoxy]-3-pyridinecarboxamide (83164-33-4)

Persistence and degradability	Not readily biodegradable.
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FLORASULAM (ISO) (145701-23-1)

Persistence and degradability	Not readily biodegradable.
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12.3. Bioaccumulative potential**diflufenican (ISO); N-(2,4-difluorophenyl)-2-[3-(trifluoromethyl)phenoxy]-3-pyridinecarboxamide (83164-33-4)**

BCF fish 1	1500 Oncorhynchus mykiss (Rainbow trout)
Log Kow	4.9
Bioaccumulative potential	Bioaccumulative potential.

FLORASULAM (ISO) (145701-23-1)

BCF other aquatic organisms 1	< 2.21
Log Kow	1.11 @ pH 3 & 25°C, -1.10 @ pH 7 & 25°C, log Kow = -1.79 @ pH 10.0 & 25°C
Bioaccumulative potential	No bioaccumulation.

12.4. Mobility in soil**diflufenican (ISO); N-(2,4-difluorophenyl)-2-[3-(trifluoromethyl)phenoxy]-3-pyridinecarboxamide (83164-33-4)**

Mobility in soil	Adsorbs into the soil
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FLORASULAM (ISO) (145701-23-1)

Mobility in soil	Mobile
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12.5. Results of PBT and vPvB assessment**Lector Delta**

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

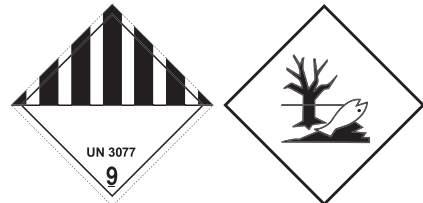


13. DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.
 European List of Waste (LoW) code: 02 01 08* - agrochemical waste containing dangerous substances.

14. TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN.

ADR	IMDG	IATA
14.1. UN number		
3082	3082	3082
14.2. UN proper shipping name		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diflufenican + Florasulam)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diflufenican + Florasulam)	Environmentally hazardous substance, liquid, n.o.s. (Diflufenican + Florasulam)
Transport document description		
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diflufenican + Florasulam), 9, III, (+)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diflufenican + Florasulam), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Diflufenican + Florasulam), 9, III
14.3. Transport hazard class(es)		
9	9	9

ADR	IMDG	IATA
		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
No supplementary information available		

14.6. Special precautions for user

- Overland transport

Classification code (ADR):	M6
Special provisions (ADR):	274, 335, 375, 601
Limited quantities (ADR):	5I
Excepted quantities (ADR):	E1
Packing instructions (ADR):	PO01, IBC03, LP01, R001
Special packing provisions (ADR):	PPI
Mixed packing provisions (ADR):	MP19
Portable tank and bulk container instructions (ADR):	T4
Portable tank and bulk container special provisions (ADR):	TP1, TP29
Tank code (ADR):	LGBV
Vehicle for tank carriage:	AT
Transport category (ADR):	3
Special provisions for carriage - Packages (ADR):	V12
Special provisions for carriage - Loading, unloading and handling (ADR):	CV13
Hazard identification number (Kemler No.):	90
Orange plates:	

90
3082

Tunnel restriction code (ADR):
EAC code:

-
•3Z

- Transport by sea

Special provisions (IMDG):	274, 335, 969
Limited quantities (IMDG):	5 L
Excepted quantities (IMDG):	E1

Packing instructions (IMDG): PO01, LP01
Special packing provisions (IMDG): PPI
IBC packing instructions (IMDG): IBC03
Tank instructions (IMDG): T4
Tank special provisions (IMDG): TP2, TP29
EmS-No. (Fire): F-A
EmS-No. (Spillage): S-F
Stowage category (IMDG): A

- Air transport

PCA Excepted quantities (IATA): E1
PCA Limited quantities (IATA): Y964
PCA limited quantity max net quantity (IATA): 30kgG
PCA packing instructions (IATA): 964
PCA max net quantity (IATA): 450L
CAO packing instructions (IATA): 964
CAO max net quantity (IATA): 450L
Special provisions (IATA): A97, A158, A197
EFG code (IATA): 9L

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

Not applicable

15. REGULATORY INFORMATION

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

15.1.1. EU-regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
Seveso Information: Seveso category (Dir. 2012/18/EU): dangerous for the environment.

15.1.2. National regulations

Germany

VwVwS Annex reference: Water hazard class (WGK) 3, severe hazard to water (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen: None of the components are listed

SZW-lijst van mutagene stoffen: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling: None of the components are listed

15.2 Chemical safety assessment

No chemical safety assessment has been carried out

16. OTHER INFORMATION

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH208	Contains . May produce an allergic reaction.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

SPECIMEN -
2019 to date