

Material group	1225	Page 1 of 14
Product name	Lector Delta (DIFLUFENICAN 500 g/l + FLORASULAM 50 g/l SC)	April 2017
Safety data sheet according to EU Reg. 1907/2006 as amended		Supersedes September 2015

SAFETY DATA SHEET

DIFLUFENICAN 500 g/l + FLORASULAM 50 g/l SC

Revision: Sections containing a revision or new information are marked with a ♣.

♣ SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. **Product identifier** **LECTOR DELTA**
DIFLUFENICAN 500 g/l + FLORASULAM 50 g/l SC

1.2. **Relevant identified uses of the substance or mixture and uses advised against** Can be used as herbicide only.

1.3. **Details of the supplier of the safety data sheet** **CHEMINOVA A/S**
 Thyborønvej 78
 DK-7673 Harboøre
 Denmark
SDS.Ronland@fmc.com

1.4. **Emergency telephone number**
Company (+45) 97 83 53 53 (24 h; for emergencies only)

Medical emergencies:

Austria: +43 1 406 43 43	Norway: +47 22 591300
Belgium: +32 70 245 245	Poland: +48 22 619 66 54
Bulgaria: +359 2 9154 409	+48 22 619 08 97
Czech Republic: +420 224 919 293	Portugal: 808 250 143 (in Portugal only)
+420 224 915 402	+351 21 330 3284
Denmark: +45 82 12 12 12	Romania: +40 21318 3606
France: +33 (0) 1 45 42 59 59	Slovakia: +421 2 54 77 4 166
Finland: +358 9 471 977	Slovenia: +386 41 650 500
Hungary: +36 80 20 11 99	Spain: +34 91 562 04 20
Ireland (Republic): +352 1 809 2166	Sweden: +46 08-331231
Italy: +39 02 6610 1029	112
Lithuania: +370 523 62052	Switzerland: 145
+370 687 53378	United Kingdom: 0870 600 6266 (in the UK only)
Luxembourg: +352 8002 5500	U.S.A. & Canada: +1 800 / 331-3148 (PROSAR)
Netherlands: +31 30 274 88 88	All other countries: +1 651 / 632-6793 (PROSAR - Collect)

SECTION 2: HAZARDS IDENTIFICATION


2.1. **Classification of the substance or mixture** Hazards to the aquatic environment, acute: Category 1 (H400)
 chronic Category 1 (H410)

Material group	1225	Page 2 of 14
Product name	Lector Delta (DIFLUFENICAN 500 g/l + FLORASULAM 50 g/l SC)	April 2017

WHO classification	Class U (unlikely to present acute hazard in normal use)
Health hazards	The product is not likely to pose any health risk during normal use. However, it should always be treated with the usual care of handling chemicals.
Environmental hazards	The product is expected to be toxic to most plants.

2.2. Label elements

According to EU Reg. 1272/2008 as amended

Product identifier	Diflufenican 500 g/l + Florasulam 50 g/l SC
Hazard pictogram (GHS09)	
Signal word	Warning
Hazard statement H410	Very toxic to aquatic life with long lasting effects.
Supplementary hazard statements EUH208	Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
EUH401	To avoid risks to human health and the environment, comply with the instructions of use.
Precautionary statements P273	Avoid release to the environment.
P391	Collect spillage.
P501	Dispose of contents/container as hazardous waste.

2.3. **Other hazards** None of the ingredients in the product meets the criteria for being PBT or vPvB.

♣ SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

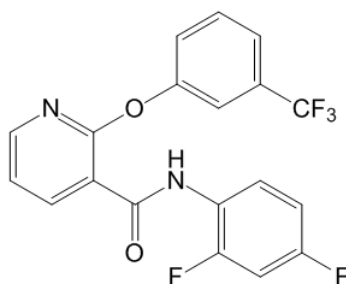
3.1. Substances	The product is a mixture, not a substance
3.2. Mixtures	See section 16 for full text of hazard statements.

Active ingredients

Diflufenican	Content: 41% by weight
CAS name	3-Pyridinecarboxamide, N-(2,4-difluorophenyl)-2-[3-(trifluoromethyl)phenoxy]-
CAS no.	83164-33-4
IUPAC name	2',4'-Difluoro-2-(α,α,α -trifluoro- <i>m</i> -tolylloxy)nicotinilide
ISO name/EU name	Diflufenican

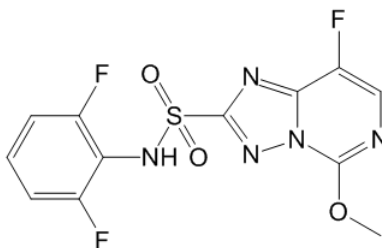
Material group	1225	Page 3 of 14
Product name	Lector Delta (DIFLUFENICAN 500 g/l + FLORASULAM 50 g/l SC)	April 2017

EC no. (EINECS no.) None
 EU index no. 616-032-00-9
 Classification of the ingredient Hazards to the aquatic environment, chronic: Category 3 (H412)
 Structural formula



Florasulam
 CAS name
 CAS no.
 IUPAC name(s)
 ISO name/EU name
 EC no. (EINECS no.)
 EU index no.
 Classification of the ingredient
 Structural formula

Content: 4% by weight
 N-(2,6-Difluorophenyl)-8-fluoro-5-methoxy[1,2,4]triazolo[1,5-c]-
 pyrimidine-2-sulfonamide
 145701-23-1
 2',6',8'-Trifluoro-5-methoxy[1,2,4]triazolo[1,5-c]pyrimidine-
 2-sulfonanilide
 Florasulam
 None
 613-230-00-7
 Hazards to the aquatic environment, acute: Category 1 (H400)
 chronic: Category 1 (H410)



Reportable ingredients

	Content (% w/w)	CAS no.	EC no. (EINECS no.)	Classification
Sodium alkyl naphthalenesulphonate-formaldehyde condensate	2	577773-56-9	None	Eye Irrit. 2 (H319)
1,2-Benzisothiazol-3(2H)-one	0.01	2634-33-5	220-120-9	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400)

♣ SECTION 4: FIRST AID MEASURES

4.1. **Description of first aid measures**

Inhalation If experiencing any discomfort, immediately remove from exposure.
 Light cases: Keep person under surveillance. Get medical attention

Material group	1225	Page 4 of 14
Product name	Lector Delta (DIFLUFENICAN 500 g/l + FLORASULAM 50 g/l SC)	April 2017

immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.

Skin contact	Immediately remove contaminated clothing and footwear. Flush skin with water. Wash with water and soap. See physician if any symptom develops.
Eye contact	Immediately rinse eyes with much water or eyewash solution, occasionally opening eyelids, until no evidence of chemical remains. Remove contact lenses after a few minutes and rinse again. See physician if irritation persists.
Ingestion	Let the exposed person rinse mouth and let him/her drink several glasses of water or milk, but not induce vomiting. If vomiting does occur, let him/her rinse mouth and drink fluids again. Get medical attention immediately.
4.2. Most important symptoms and effects, both acute and delayed	Not known. Poisoning is unlikely, unless large quantities are ingested. In acute toxicity tests on diflufenican, only non-specific signs of toxicity were observed.
4.3. Indication of any immediate medical attention and special treatment needed	Immediate medical attention is required in case of ingestion It may be helpful to show this safety data sheet to physician.
Note to physician	A specific antidote against this substance is not known. Treatment is as for a general chemical. Gastric lavage and/or administration of activated charcoal can be considered. After decontamination, treatment of exposure should be directed at the control of symptoms and the clinical condition.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media	Dry chemical or carbon dioxide for small fires, water spray or foam for large fires. Avoid heavy hose streams.
5.2. Special hazards arising from the substance or mixture	The essential breakdown products are volatile, toxic, irritant and inflammable compounds such as nitrogen oxides, hydrogen fluoride, carbon monoxide, carbon dioxide, sulphur dioxide and various fluorinated organic compounds.
5.3. Advice for firefighters	Use water spray to keep fire-exposed containers cool. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Fight fire from protected location or maximum possible distance. Dike area to prevent water runoff. Firemen should wear self-contained breathing apparatus and protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Material group	1225	Page 5 of 14
Product name	Lector Delta (DIFLUFENICAN 500 g/l + FLORASULAM 50 g/l SC)	April 2017

6.1. Personal precautions, protective equipment and emergency procedures

It is recommended to have a predetermined plan for the handling of spills. Empty, closable vessels for the collection of spills should be available.

In case of large spill (involving 10 tonnes of the product or more):

1. use personal protection equipment; see section 8
2. call emergency telephone no.; see section 1
3. alert authorities.

Observe all safety precautions when cleaning up spills. Use personal protection equipment. Depending on the magnitude of the spill this may mean wearing respirator, face mask or eye protection, chemical resistant clothing, gloves and rubber boots.

Stop the source of the spill immediately if safe to do so.

6.2. Environmental precautions

Contain the spill to prevent any further contamination of surface, soil or water. Wash waters must be prevented from entering surface water drains. Uncontrolled discharge into water courses must be alerted to the appropriate regulatory body.

6.3. Methods and materials for containment and cleaning up

It is recommended to consider possibilities to prevent damaging effects of spills, such as bunding or capping. See GHS (Annex 4, Section 6).

Surface water drains should be covered if appropriate. Minor spills on the floor or other impervious surface should be absorbed onto an absorptive material such as universal binder, hydrated lime, Fuller's earth or other absorbent clays. Collect the contaminated absorbent in suitable containers. Clean area with much water and industrial detergent. Absorb wash liquid onto absorbent and transfer to suitable containers. The used containers should be properly closed and labelled.

Large spills which soak into the ground should be dug up and transferred to suitable containers.

Spills in water should be contained as much as possible by isolation of the contaminated water. The contaminated water must be collected and removed for treatment or disposal.

6.4. Reference to other sections

See subsection 8.2. for personal protection.
 See section 13 for disposal.

♣ SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

In an industrial environment it is recommended to avoid all personal contact with the product, if possible by using closed systems with remote system control. The material should be handled by mechanical means as much as possible. Adequate ventilation or local exhaust

Material group	1225	Page 6 of 14
Product name	Lector Delta (DIFLUFENICAN 500 g/l + FLORASULAM 50 g/l SC)	April 2017

ventilation is required. The exhaust gases should be filtered or treated otherwise. For personal protection in this situation, see section 8.

For its use as a pesticide, first look for precautions and personal protection measures on the officially approved label on the packaging or for other official guidance or policy in force. If these are lacking, see section 8.

Remove contaminated clothing immediately. Wash thoroughly after handling. Before removing gloves, wash them with water and soap. After work, take off all work clothes and footwear. Take a shower, using water and soap. Wear only clean clothes when leaving job. Wash protective clothing and protective equipment with water and soap after each use.

Do not discharge to the environment. Do not contaminate water when disposing of equipment wash waters. Collect all waste material and remains from cleaning equipment, etc., and dispose of as hazardous waste. See section 13 for disposal.

7.2. Conditions for safe storage, including any incompatibilities

The product is stable under normal conditions of warehouse storage.

Keep in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.

7.3. Specific end use(s)

The product is a registered pesticide which may only be used for the applications it is registered for, in accordance with a label approved by the regulatory authorities.

♣ SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Personal exposure limits To our knowledge, personal exposure limits have not been established for the active ingredients in this product. However, personal exposure limits defined by local regulations may exist and must be observed.

Diflufenican

DNEL, systemic 0.11 mg/kg bw/day
 PNEC, aquatic environment 2.5 ng/l

Florasulam

DNEL, systemic 0.05 mg/kg bw/day
 PNEC, aquatic environment 62 ng/l

8.2. Exposure controls

When used in a closed system, personal protection equipment will not be required. The following is meant for other situations, when the use

Material group	1225	Page 7 of 14
Product name	Lector Delta (DIFLUFENICAN 500 g/l + FLORASULAM 50 g/l SC)	April 2017

of a closed system is not possible, or when it is necessary to open the system. Consider the need to render equipment or piping systems non-hazardous before opening.

The precautions mentioned below are primarily meant for handling of the undiluted product and for preparing the spray solution, but can be recommended for spraying as well.

In cases of incidental high exposure, maximal personal protection equipment may be necessary, such as respirator, face mask, chemical resistant coveralls.



Respiratory protection

The product does not automatically present an airborne exposure concern during normal handling, but in the event of an accidental discharge of the material which produces a heavy vapour or mist, workers must put on officially approved respiratory protection equipment with a universal filter type including particle filter.



Protective gloves

Wear chemical resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber or viton. The breakthrough times of these materials for the product are unknown, but it is expected that they will give adequate protection.



Eye protection

Wear safety glasses. It is recommended to have an eye wash fountain immediately available in the workplace when there is a potential for eye contact.



Other skin protection

Wear appropriate chemical resistant clothing to prevent skin contact depending on the extent of exposure. During most normal work situations where exposure to the material cannot be avoided for a limited time span, waterproof pants and apron of chemical resistant material or coveralls of polyethylene (PE) will be sufficient. Coveralls of PE must be discarded after use if contaminated. In cases of excessive or prolonged exposure, coveralls of barrier laminate may be required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on physical and chemical properties

Appearance	Opaque off-white liquid
Odour	Smell of mixed chemicals
Odour threshold	Not determined
pH	Undiluted: 4.46 at 25°C 1% dilution in water: 4.53 at 25°C
Melting point.....	Not determined
Initial boiling point and boiling range	Not determined
Flash point	Not flammable. The flame is extinguished at 74°C in the Setaflash closed cup tester

Material group	1225	Page 8 of 14
Product name	Lector Delta (DIFLUFENICAN 500 g/l + FLORASULAM 50 g/l SC)	April 2017

Evaporation rate	Not determined
Flammability (solid/gas)	Not applicable (liquid)
Upper /lower flammability or explosive limits	Not determined
Vapour pressure	Diflufenican : 4.25 x 10 ⁻⁶ Pa at 25°C 8.19 x 10 ⁻⁶ Pa at 35°C Florasulam : 6.55 x 10 ⁻⁵ Pa at 25°C
Vapour density	Not determined
Relative density	1.22
Solubility(ies)	Solubility of diflufenican at 20°C in: ethyl acetate 67 - 80 g/l hexane < 10 g/l water < 0.05 mg/l at 25°C Solubility of florasulam at 20°C in: ethyl acetate 16 g/l n-heptane 0.036 g/l water 0.027 g/l at pH 4 4.8 g/l at pH 7 49 g/l at pH 9
Partition coefficient n-octanol/water	Diflufenican : log K _{ow} = 4.9 Florasulam : log K _{ow} = 1.11 at pH 3 and 25°C log K _{ow} = -1.10 at pH 7 and 25°C log K _{ow} = -1.79 at pH 10.0 and 25°C
Autoignition temperature	> 600°C if any
Decomposition temperature	Not determined
Viscosity	1446 mPa.s at 20°C 1277 mPa.s at 40°C
Explosive properties.....	Not explosive
Oxidising properties	Not oxidising

9.2. Other information

Miscibility The product is miscible with water.

SECTION 10: STABILITY AND REACTIVITY

- | | |
|---|---|
| 10.1. Reactivity | To our knowledge, the product has no special reactivities. |
| 10.2. Chemical stability | The product is stable during normal handling and storage at ambient temperatures. |
| 10.3. Possibility of hazardous reactions | None known. |
| 10.4. Conditions to avoid | Heating of the product will evolve harmful and irritant vapours. |
| 10.5. Incompatible materials | None known. |
| 10.6. Hazardous decomposition products | See subsection 5.2. |

Material group	1225	Page 9 of 14
Product name	Lector Delta (DIFLUFENICAN 500 g/l + FLORASULAM 50 g/l SC)	April 2017

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. **Information on toxicological effects** * = Based on available data, the classification criteria are not met.

Product

Acute toxicity	The product is not considered harmful by single exposure. * The acute toxicity is measured as:
Route(s) of entry	
- ingestion	LD ₅₀ , oral, rat: > 5000 mg/kg (method OECD 425)
- skin	LD ₅₀ , dermal, rat: > 5000 mg/kg (method OECD 402)
- inhalation	LC ₅₀ , inhalation, rat: > 3.98 mg/l/4 h (method OECD 403)
Skin corrosion/irritation	Minimally irritating to skin (method OECD 404). *
Serious eye damage/irritation	Minimally irritating to eyes (method OECD 405). *
Respiratory or skin sensitisation ...	Not an allergenic skin sensitizer (method OECD 429). *
Germ cell mutagenicity	The product contains no ingredients known to be mutagenic. *
Carcinogenicity	The product contains no ingredients known to be carcinogenic. *
Reproductive toxicity	The product contains no ingredients found to have adverse effects on reproduction. *
STOT – single exposure	To our knowledge, no specific effects have been observed after single exposure. *
STOT – repeated exposure	The following is found for the active ingredient diflufenican: Target organ: no specific target organ NOEL: 8 - 8.7 mg/kg bw/day in a 13-week rat study. At this exposure reduced bodyweight gain was found (method OECD 408). *
Aspiration hazard	The product does not contain ingredients of a type known to present an aspiration pneumonia hazard. *
Symptoms and effects, acute and delayed	Not known. Poisoning is unlikely, unless large quantities are ingested. In acute toxicity tests on diflufenican only non-specific signs of toxicity were observed.

Diflufenican

Toxicokinetics, metabolism and distribution	Diflufenican is rapidly absorbed after oral administration. Distribution occurs preferentially to tissues with a high fat content. It is extensively metabolised and rapidly excreted.
Acute toxicity	The substance is not harmful by inhalation, in contact with skin or if swallowed. * The acute toxicity is measured as:
Route(s) of entry	
- ingestion	LD ₅₀ , oral, rat: > 5000 mg/kg (5 studies)

Material group	1225	Page 10 of 14
Product name	Lector Delta (DIFLUFENICAN 500 g/l + FLORASULAM 50 g/l SC)	April 2017

- skin	LD ₅₀ , dermal, rat: > 2000 mg/kg (method OECD 402)
- inhalation	LC ₅₀ , inhalation, rat: > 5.12 mg/l/4 h (method US EPA (1985))
Skin corrosion/irritation	The substance is not irritating to skin (method US EPA (1985)). *
Serious eye damage/irritation	The substance may be slightly irritating to eyes (US EPA (1985)). *
Respiratory or skin sensitisation ...	The substance was not sensitising in the Local Lymph Node Assay (method OECD 429). *

Florasulam

Toxicokinetics, metabolism and distribution

Florasulam is rapidly absorbed after oral intake. It is widely distributed in the body. Metabolism is minor and only partial. Excretion is rapid, within a few days. No indication of bioaccumulation is found.

Acute toxicity	Florasulam is not considered as harmful by inhalation, in contact with skin or if swallowed. * The acute toxicity is measured as:
Route(s) of entry	
- ingestion	LD ₅₀ , oral, rat: > 5000 mg/kg (method OECD 425)
- skin	LD ₅₀ , dermal, rat: > 2000 mg/kg (method OECD 402)
- inhalation	LC ₅₀ , inhalation, rat: > 5.09 mg/l/4 h (method OECD 403)
Skin corrosion/irritation	Not irritating to skin (method OECD 404). *
Serious eye damage/irritation	Not irritating to eyes (method OECD 405). *
Respiratory or skin sensitisation ...	Not a skin sensitizer (method OECD 429). *

Sodium alkyl-naphthalenesulphonate-formaldehyde condensate

Acute toxicity

The substance is not considered harmful by single exposure. *

Route(s) of entry	
- ingestion	LD ₅₀ , oral, rat: > 5000 mg/kg
- skin	LD ₅₀ , dermal, rat: not available
- inhalation	LC ₅₀ , inhalation, rat: not available

Skin corrosion/irritation

May be slightly irritating to skin. *

Serious eye damage/irritation

Irritating to eyes.

STOT – single exposure

Inhalation of dust can cause irritation of airways. It is not clear if the criteria for classification are met.

1,2-Benzisothiazol-3(2H)-one

Acute toxicity

The substance is harmful by ingestion.

Route(s) of entry	
- ingestion	LD ₅₀ , oral, rat (male): 670 mg/kg LD ₅₀ , oral, rat (female): 784 mg/kg

Material group	1225	Page 11 of 14
Product name	Lector Delta (DIFLUFENICAN 500 g/l + FLORASULAM 50 g/l SC)	April 2017

	(method OPPTS 870.1100, measured on 73% solution)
- skin	LD ₅₀ , dermal, rat: > 2000 mg/kg * (method OPPTS 870.1200, measured on 73% solution)
- inhalation	LC ₅₀ , inhalation, rat: not available
Skin corrosion/irritation	Slightly irritating to skin (method OPPTS 870.2500).
Serious eye damage/irritation	Severely irritating to eyes (method OPPTS 870.2400).
Respiratory or skin sensitisation ...	Moderate dermal sensitizer to guinea pigs (method OPPTS 870.2600). The substance appears to be significantly more sensitising to humans.

SECTION 12: ECOLOGICAL INFORMATION

- 12.1. **Toxicity** The product is highly toxic to many plant species. It is not considered as toxic to fish, aquatic invertebrates, soil macroorganisms, birds, mammals and insects. It may have short-term effects on soil microorganisms, but no significant long-term effects have been observed.

The following has been measured on the product:

- Fish	Rainbow trout (<i>Oncorhynchus mykiss</i>)	96-h LC ₅₀ : > 100 mg/l
- Invertebrates	Daphnids (<i>Daphnia magna</i>)	48-h EC ₅₀ : > 100 mg/l
- Algae	Green algae (<i>Desmodesmus subspicatus</i>)	72-h I _r C ₅₀ : 1.9 µg/l
- Plants	Duckweed (<i>Lemna minor</i>)	7-day E _r C ₅₀ : 0.027 mg/l
- Earthworms	<i>Eisenia foetida</i>	14-day LC ₅₀ : 1000 mg/kg dry soil
- Insects	Bees	48-h LD ₅₀ , oral: > 214 µg/bee 48-h LD ₅₀ , contact: > 235 µg/bee

- 12.2. **Persistence and degradability** **Diflufenican** is not rapidly degraded in the environment or in wastewater treatment plants. Its primary half-life in soil can vary from several months to one year depending on circumstances.

Florasulam is not readily biodegradable. It is not persistent in aerobic soil or aquatic systems, but is degraded to its major degradate, N-(2,6-difluorophenyl)-8-fluoro-5-hydroxy-[1,2,4]triazolo[1,5-c]pyrimidine-2-sulfonamide, which in turn is more slowly biodegraded in soil or even stable in some aquatic systems, and more mobile in soil than florasulam.

Degradation half-lives of florasulam vary with circumstances, from 2 to 18 days in aerobic soil. Degradation is mainly microbiological.

The product contains small amounts of other ingredients which are not readily biodegradable and may not be degradable in a waste water treatment plant.

Material group	1225	Page 12 of 14
Product name	Lector Delta (DIFLUFENICAN 500 g/l + FLORASULAM 50 g/l SC)	April 2017

- 12.3. **Bioaccumulative potential** See section 9 for n-octanol/water partition coefficients.
- Diflufenican** has a potential to bioaccumulate. The bioconcentration factor was measured to be approx. 1500 for whole fish (rainbow trout). It was excreted within 14 days.
- Due to its high solubility in water, **florasulam** does not bioaccumulate. Bioconcentration factor is < 2.21.
- 12.4. **Mobility in soil** In the environment **diflufenican** is not mobile, but is readily absorbed by soil particles.
- Under normal conditions **florasulam** is mobile in soil. It has a potential for leaching to groundwater.
- 12.5. **Results of PBT and vPvB assessment** None of the ingredients meets the criteria for being PBT or vPvB.
- 12.6. **Other adverse effects** Other relevant hazardous effects in the environment are not known.

SECTION 13: DISPOSAL CONSIDERATIONS
--

- 13.1. **Waste treatment methods** Remaining quantities of the material and empty but unclean packaging should be regarded as hazardous waste.
- Disposal of waste and packagings must always be in accordance with all applicable local regulations.
- Disposal of product According to the Waste Framework Directive (2008/98/EC), possibilities for reuse or reprocessing should first be considered. If this is not feasible, the material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing.
- Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.
- Disposal of packaging It is recommended to consider possible ways of disposal in the following order:
1. Reuse or recycling should first be considered. If offered for recycling, containers must be emptied and triply rinsed (or equivalent). Do not discharge rinsing water to sewer systems.
 2. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.
 3. Delivery of the packaging to a licensed service for disposal of hazardous waste.
 4. Disposal in a landfill or burning in open air should only occur as a last resort. For disposal in a landfill containers should be emptied completely, rinsed and punctured to make them unusable for other

Material group	1225	Page 13 of 14
Product name	Lector Delta (DIFLUFENICAN 500 g/l + FLORASULAM 50 g/l SC)	April 2017

purposes. If burned, stay out of smoke.

♣ SECTION 14: TRANSPORT INFORMATION

ADR/RID/IMDG/IATA/ICAO classification

- 14.1. **UN number** 3082
- 14.2. **UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (diflufenican and florasulam)
- 14.3. **Transport hazard class(es)** 9
- 14.4. **Packing group** III
- 14.5. **Environmental hazards** Marine pollutant
- 14.6. **Special precautions for user** Avoid any unnecessary contact with the product. Misuse can result in damage to health. Do not discharge to the environment.
- 14.7. **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code** The product is not transported in bulk by ship.

SECTION 15: REGULATORY INFORMATION

- 15.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture** Seveso category (Dir. 2012/18/EU): dangerous for the environment.
 All ingredients are covered by EU chemical legislation.
- 15.2. **Chemical safety assessment** A chemical safety assessment is not required to be included for this product.

♣ SECTION 16: OTHER INFORMATION

- Relevant changes in the safety data sheet Minor corrections only.
- List of abbreviations
- | | |
|--------------------------------|--|
| CAS | Chemical Abstracts Service |
| Dir. | Directive |
| DNEL | Derived No Effect Level |
| EC | European Community |
| EC ₅₀ | 50% Effect Concentration |
| E _r C ₅₀ | 50% Effect Concentration based on growth |
| EINECS | European INventory of Existing Commercial Chemical Substances |
| GHS | Globally Harmonized classification and labelling System of chemicals, Fifth revised edition 2013 |
| IBC | International Bulk Chemical code |

Material group	1225	Page 14 of 14
Product name	Lector Delta (DIFLUFENICAN 500 g/l + FLORASULAM 50 g/l SC)	April 2017

IC ₅₀	50% Inhibition Concentration based on growth
ISO	International Organisation for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	50% Lethal Concentration
LD ₅₀	50% Lethal Dose
LOAEL	Lowest Observed Adverse Effect Level
MARPOL	Set of rules from the International Maritime Organisation (IMO) for prevention of sea pollution
NOEL	No Observed Effect Level
n.o.s.	Not otherwise specified
OECD	Organisation for Economic Cooperation and Development
OPPTS	Office of Prevention, Pesticides and Toxic Substances
PBT	Persistent, Bioaccumulative, Toxic
PNEC	Predicted No Effect Concentration
Reg.	Regulation
SC	Suspension Concentrate
STOT	Specific Target Organ Toxicity
US EPA	Environmental Protection Agency (USA)
vPvB	very Persistent, very Bioaccumulative
WHO	World Health Organisation

References Data measured on the product are unpublished company data. Data on ingredients are available from published literature and can be found several places.

Method for classification Test data

Used hazard statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
EUH401	To avoid risks to human health and the environment, comply with the instructions of use

Advice on training This material should only be used by persons who are made aware of its hazardous properties and have been instructed in the required safety precautions.

The information provided in this safety data sheet is believed to be accurate and reliable, but uses of the product vary and situations unforeseen by Cheminova A/S may exist. The user has to check the validity of the information under local circumstances.

Prepared by: Cheminova A/S / GHB