

Thyborønvej 78 DK-7673 Harboøre Denmark

+45 9690 9690 www.fmc.com

CVR No. DK 12 76 00 43

Material group	BP20101	Page 1 of 15
Product name	Dephend FLUFENACET 400 g/l + DIFLUFENICAN 100 g/l SC	July 2017
Safety data sheet according to EU Reg. 1907/2006 as amended		Supersedes March 2014

SAFETY DATA SHEET

FLUFENACET 400 g/l + **DIFLUFENICAN 100 g/I 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 **DEPHEND** FLUFENACET 400 g/I + DIFLUFENICAN 100 g/I SC **Contains flufenacet** 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 CHEMINOVA A/S data sheet Thyborønvej 78 DK-7673 Harboøre Denmark SDS.Ronland@fmc.com

1.4. Emergency telephone number

<u>Company</u> (+45) 97 83 53 53 (24 h; for emergencies only)

Medical emergencies:

Austria: +43 1 406 43 43 Belgium: +32 70 245 245 Bulgaria: +359 2 9154 409

Cyprus: 1401

Czech Republic: +420 224 919 293

+420 224 915 402

Denmark: +45 82 12 12 12 France: +33 (0) 1 45 42 59 59 Finland: +358 9 471 977 Greece: 30 210 77 93 777 Hungary: +36 80 20 11 99

Ireland (Republic): +352 1 809 2166

Italy: +39 02 6610 1029 Lithuania: +370 523 62052 +370 687 53378

Luxembourg: +352 8002 5500

Netherlands: +31 30 274 88 88

Norway: +47 22 591300 Poland: +48 22 619 66 54 +48 22 619 08 97

Portugal: 808 250 143 (in Portugal only)

+351 21 330 3284 Romania: +40 21318 3606 Slovakia: +421 2 54 77 4 166 Slovenia: +386 41 650 500 Spain: +34 91 562 04 20 Sweden: +46 08-331231

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Switzerland: 145

United Kingdom: 0870 600 6266 (in the UK only) U.S.A. & Canada: +1 800 / 331-3148 (PROSAR)

All other countries: +1 651 / 632-6793 (PROSAR - Collect)



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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Specific target organ toxicity – repeated exposure: Category 2 (H373) Hazards to the aquatic environment, acute: Category 1 (H400)

chronic Category 1 (H410)

2.2. Label elements

According to EU Reg. 1272/2008 as amended

Product identifier Flufenacet 400 g/l + Diflufenican 100 g/l SC

Contains flufenacet

Hazard pictograms (GHS08, GHS09)





Signal word Warning

Hazard statements

H410 Very toxic to aquatic life with long lasting effects.

Supplementary hazard statements

reaction.

instructions of use.

Precautionary statements

P314 Get medical attention/advice if you feel unwell.

P391 Collect spillage.

P501 Dispose of contents/container as hazardous waste.

or vPvB.

♣ SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. **Substances** The product is a mixture, not a substance



Eye Irrit. 2 (H319)

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3.2.	Mixtures	See section 16 for full text of hazard statements.			nents.
Active ingredients					
	Flufenacet	Content: 33	3% by weight		
	CAS name	Acetamide, N-(4-fluorophenyl)-N-(1-methylethyl)-2-[[5-(trifluoromethyl)-1,3,4-thiadiazol-2-yl]oxy]-			
CAS no					
	IUPAC name(s)	2-yloxy)acetanilide			l-1,3,4-thiadiazol-
	ISO name/EU name				
	EC no. (EINECS no.)	None			
	EU index no				
	Classification of the ingredient	. Acute oral toxicity: Category 4 (H302) Sensitisation – skin: Category 1 (H317) Specific target organ toxicity – repeated exposure: Category 2 (H373 Hazards to the aquatic environment, acute: Category 1 (H400) chronic: Category 1 (H410)			Category 1 (H400)
	Structural formula				CF ₃
	Diflufenican				
	CAS name			-(2,4-difluoroph	enyl)-2-[3-(trifluoro-
		methyl)phe			
	CAS no.	83164-33-4			
	IUPAC name			fluoro- <i>m</i> -tolylox	y)nicotinanilide
	ISO name/EU name	Diflufenica	ın		
	EC no. (EINECS no.)	None			
	EU index no.	616-032-00			
	Classification of the ingredient	Hazards to	the aquatic env	ironment, chroni	c: Category 3 (H412)
	Structural formula				
			H N &	CF ₃	
		o F F			
	Reportable ingredients	Content (% w/w)	CAS no.	EC no. (EINECS no.)	Classification
	Glycerol	10	56-81-5	200-289-5	None

2

577773-56-9 None

Sodium alkylnaphthalenesulphonate-formaldehyde condensate



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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 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.

Inducing vomiting is not recommended. Rinse mouth and drink water or milk. If vomiting does occur, rinse mouth and drink fluids again.

Call a doctor or get medical attention immediately.

4.2. **Most important symptoms and effects, both acute and delayed**In animal tests non-specific symptoms were seen, such as irregular respiration and lowered activity.

4.3. Indication of any immediate medical attention is required in case of ingestion medical attention and special treatment needed

Immediate medical attention is required in case of ingestion treatment needed

It may be helpful to show this safety data sheet to physician.

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



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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

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.



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♣ 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 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.

Do not wear heavily contaminated clothing. Wash thoroughly after handling. Before removing gloves, wash them with water and soap. Wear only clean clothes when leaving job. Wash protective clothing and protective equipment with water and soap after 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. Recommended storage temperature 5 - 30°C.

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.

Year

Glycerol ACGIH (USA) TLV

OSHA (USA) PEL EU, 2000/39/EC 2015 Not established

2015 15 mg/m³, total dust (mist) 2009 5 mg/m³, respirable fraction



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as amended

Germany, MAK 2014 Not established HSE (UK) WEL 2011 Not established

However, other personal exposure limits defined by local regulations may exist and must be observed.

Flufenacet

Diflufenican

DNEL, systemic 0.11 mg/kg bw/day

PNEC, aquatic environment 2.5 ng/l

Glycerol

 DNEL, inhalation
 56 mg/m³

 PNEC, freshwater
 0.885 mg/l

 PNEC, marine water
 0.088 mg/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 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.



Cheminova A/S

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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	Beige to light brown liquid		
	Odour	Slight odour of mixed chemicals Not determined		
	Odour threshold			
	pH	Undiluted: 4.3		
		1% dilution in water: 4.9		
	Melting point/freezing point	Not determined		
	Initial boiling point and boiling range	100°C		
	Flash point	> 100°C if any		
	Evaporation rate	Not determined		
	Flammability (solid/gas)	Not applicable (liqu	id)	
	Upper/lower flammability or			
	explosive limits	Not determined	_	
	Vapour pressure	Flufenacet	: 9 x 10 ⁻⁵ Pa at 20°C	
		Diflufenican	: 4.25×10^{-6} Pa at 25° C	
			$8.19 \times 10^{-6} \text{ Pa at } 35^{\circ}\text{C}$	
	Vapour density	Not determined		
	Relative density	1.206 at 20°C		
	Solubility(ies)	Solubility of flufenacet at 25°C in:		
		toluene	> 200 g/l	
		hexane	8.7 g/l	
		water	56 mg/l at 20°C	
		Solubility of diflufe		
		ethyl acetate	67 - 80 g/l	
		hexane	< 10 g/l	
		water	< 0.05 mg/l at 25 °C	
	Partition coefficient n-octanol/water	Flufenacet	$\log K_{ow} = 3.2$	
		Diflufenican	$\log K_{ow} = 4.9$	
	Autoignition temperature	> 400 °C if any		
	Decomposition temperature		ufenacet starts at 150°C	
	Viscosity		, 1860 mPa.s at 40°C	
	Explosive properties	Not explosive		
	Oxidising properties	Not oxidising		
9.2.	Other information			
	Miscibility	The product is dispe	ersible in water.	



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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.

♣ SECTION 11: TOXICOLOGICAL INFORMATION

T DI	* SECTION II, 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, as measured on a similar product, is:	
	Route(s) of entry - ingestion	LD_{50} , oral, rat: > 2000 mg/kg (method OECD 425) signs of toxicity at this concentration	
	- skin	LD_{50} , dermal, rat: $> 2000 \text{ mg/kg}$ (method OECD 402)	
	- inhalation	LC_{50} , inhalation, rat: > 5.15 mg/l/4 h (method OECD 403)	
	Skin corrosion/irritation	Measured on a similar product: minimally irritating to skin (method OECD 404). *	
	Serious eye damage/irritation	Measured on a similar product: minimally irritating to eyes (method OECD 405). *	
	Respiratory or skin sensitisation	Measured on a similar product: not an allergenic skin sensitizer (method OECD 429). *	

serious eye damage, irradion	OECD 405). *
Respiratory or skin sensitisation	Measured on a similar product: 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 was found for the active ingredient flufenacet: Target organs: liver, thyroid, eye, kidney



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	LOEL: 25 ppm (1.2 mg/kg bw/day) in a 2-year rat study based on increased incidence of renal pelvic mineralisation.
Aspiration hazard	The product does not present an aspiration pneumonia hazard. *
Symptoms and effects, acute and delayed	In animal tests non-specific symptoms were seen, such as irregular respiration and lowered activity.
<u>Flufenacet</u> Toxicokinetícs, metabolism and distribution	The substance is rapidly absorbed after oral intake and widely distributed in the body. It is extensively metabolised. The substance and its metabolites are rapidly excreted, almost completely within 72 hours. There is no potential for accumulation.
Acute toxicity	The substance is harmful by ingestion. It is not expected to be harmful by skin contact or inhalation. The acute toxicity is measured as:
Route(s) of entry - ingestion	LD ₅₀ , oral, rat (male): 1617 mg/kg
	LD ₅₀ , oral, rat (female): 589 mg/kg
- skin	LD_{50} , dermal, rat: > 2000 mg/kg *
- inhalation	LC_{50} , inhalation, rat: > 3.74 mg/l *
Skin corrosion/irritation	Not irritating to skin. *
Serious eye damage/irritation	Not irritating to eyes. *
Respiratory or skin sensitisation	Skin sensitizer.
<u>Diflufenican</u> 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)
- 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). *

 $\underline{Sodium\ alkylnaphthalene sulphonate-formalde hyde\ condensate}$



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Acute toxicity The substance is not considered harmful by single exposure. * LD_{50} , oral, rat: > 5000 mg/kg Route(s) of entry - ingestion - skin LD₅₀, dermal, rat: not available - inhalation LC₅₀, inhalation, rat: not available May be slightly irritating to skin. * Skin corrosion/irritation 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. LD₅₀, oral, rat (male): 670 mg/kg Route(s) of entry - ingestion LD₅₀, oral, rat (female): 784 mg/kg (method OPPTS 870.1100, measured on 73% solution) LD_{50} , dermal, rat: > 2000 mg/kg * - skin (method OPPTS 870.1200, measured on 73% solution) - inhalation LC₅₀, inhalation, rat: not available Skin corrosion/irritation Slightly irritating to skin (method OPPTS 870.2500). Severely irritating to eyes (method OPPTS 870.2400). Serious eye damage/irritation Respiratory or skin sensitisation ... Moderate dermal sensitizer to guinea pigs (method OPPTS 870.2600).

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity	The product is very toxic to aquatic algae and plants. It is less toxic to
	fish and sail magraphisms. It is not considered as harmful to hirds

fish and soil macroorganisms. It is not considered as harmful to birds, insects, aquatic invertebrates and soil microorganisms.

The substance appears to be significantly more sensitising to humans.

The ecotoxicity, as measured on a similar product, is:

•	•	
- Fish	Bluegill sunfish (Lepomis macrochirus)	96-h LC ₅₀ : 6.43 mg/l
- Invertebrates	Daphnids (Daphnia magna)	48-h EC ₅₀ : 114 mg/l
- Algae	Green algae (Pseudokirchneriella subcapitata)	72-h EC ₅₀ : 3.06 μg/l
- Plants	Duckweed (Lemna gibba)	7-day EC ₅₀ : 66.7 μg/l 7-day NOEC: 1.0 μg/l
- Earthworms	Eisenia foetida foetida	28-day LC ₅₀ : 81 mg/kg dry substrate
- Bees	Honeybees	48-h LD ₅₀ , acute oral: > 420 µg/bee



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48-h LD₅₀, contact: $> 600 \mu g/bee$

12.2. Persistence and degradability

Flufenacet is biodegradable, but does not meet the criteria for being readily biodegradable. It undergoes slow degradation in the environment and in waste water treatment plants. Primary degradation half-lives vary with circumstances from a few weeks to a few months in aerobic soil and water.

Diflufenican is not readily biodegradable. Primary degradation half-lives vary depending on soil type, but are usually several months.

The product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.

12.3. **Bioaccumulative potential**

See section 9 for octanol-water partition coefficients.

Flufenacet is not expected to bioaccumulate. The measured bioconcentration factor (BCF) of flufenacet is 71.

Diflufenican has a potential to bioaccumulate. The Bioconcen-tration Factor (BCF) was measured to be approx. 1500 for whole fish (rainbow trout). It was excreted within 14 days.

12.4. **Mobility in soil**

Under normal conditions **flufenacet** is of low mobility in soil.

In the environment **diflufenican** is not mobile, but is readily absorbed by soil particles.

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.



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Disposal of packaging

It is recommended to consider possible ways of disposal in the following order:

- 1. Reuse or recycling should first be considered. Reuse is prohibited except by the authorisation holder. 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 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. (flufenacet and diflufenican)
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.

Young people under the age of 18 are not allowed to work with the product.

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.



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♣ SECTION 16: OTHER INFORMATION

	Willion Co.	rrections only.
ist of abbreviations	ACGIH	American Conference of Governmental Industrial
	CAS	Hygienists Chemical Abstracts Service
	Dir.	Directive
	DII. DNEL	Derived No Effect Level
	EC	European Community
	EC EC ₅₀	50% Effect Concentration
	EINECS	European INventory of Existing Commercial Chemical
	LINECS	Substances
	GHS	Globally Harmonized classification and labelling System
	GHS	of chemicals, Fifth revised edition 2013
	HSE	Health & Safety Executive, UK
	IBC	International Bulk Chemical code
	ISO	International Organisation for Standardization
	IUPAC	International Union of Pure and Applied Chemistry
	LC_{50}	50% Lethal Concentration
	LD_{50}^{50}	50% Lethal Dose
	LOEL	Lowest Observed Effect Level
	MAK	Maximale Arbeitspaltz-Konzentration
	MARPOI	L Set of rules from the International Maritime Organisatio
		(IMO) for prevention of sea pollution
	NOEC	No Observed Effect Concentration
	n.o.s.	Not otherwise specified
	OECD	Organisation for Economic Cooperation and Developme
	OPPTS	Office of Prevention, Pesticides and Toxic Substances
	OSHA	Occupational Safety and Health Administration
	PBT	Persistent, Bioaccumulative, Toxic
	PEL	Personal Exposure Limit
	PNEC	Predicted No Effect Concentration
	Reg.	Regulation
	SC	Suspension Concentrate
	STOT	Specific Target Organ Toxicity
	TLV	Threshold Limit Value
	US EPA	8-3()
	vPvB	very Persistent, very Bioaccumulative
	WEL WHO	Workplace Exposure Limit World Health Organisation
	wпо	world Health Organisation
References	Data mea	sured on a similar product are unpublished company data.
		ngredients are available from published literature and can
		eral places.

Hazards to the aquatic environment: read-across



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Material group	BP20101	Page 15 of 15
Product name	Dephend FLUFENACET 400 g/I + DIFLUFENICAN 100 g/I SC	July 2017

Used hazard statements	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.
	H373	May cause damage through prolonged or repeated
		exposure.
	H400	Very toxic to aquatic life.
	H410	Very toxic to aquatic life with long lasting effects.
	H412	Harmful to aquatic life with long lasting effects.
	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 FMC Corporation may exist. The user has to check the validity of the information under local circumstances.

Prepared by: FMC Corporation / Cheminova A/S / GHB