



Vers 7.0	ion	Revision Date: 28.09.2024		S Number: 77041-00010		ue: 06.07.2024 ue: 26.10.2022
Sect	tion 1: I	dentification				
	Produc	t name	:	Diflubenzuron (2	5%) Formulatior	1
	Other n	neans of identification	:	Zenith Concentra	ate (A006102)	
	Manufa Compa	acturer or supplier's d ny	letai :	ls MSD		
	Addres	S	:	33 Whakatiki Stre Upper Hutt - New		908
	Telepho	one	:	0800 800 543		
	Emerge	ency telephone number	• :	0800 764 766 (08 CHEMCALL)	300 POISON)	0800 243 622 (0800
	E-mail a	address	:	EHSDATASTEW	ARD@msd.con	ı
		mended use of the ch	nemi			
		mended use tions on use	:	Veterinary produce Not applicable	ct	

Section 2: Hazard identification

GHS Classification Skin sensitisation	:	Category 1
Specific target organ toxicity - repeated exposure	:	Category 2 (Blood, spleen, Liver)
Hazardous to the aquatic environment - acute hazard	:	Category 1
Hazardous to the aquatic environment - chronic hazard	:	Category 1
GHS label elements Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H317 May cause an allergic skin reaction.



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		through prolong	se damage to organs (Blood, spleen, Liver) ged or repeated exposure. c to aquatic life with long lasting effects.
Preca	utionary statements	P272 Contamir the workplace.	eathe mist or vapours. lated work clothing should not be allowed out of ease to the environment. tective gloves.
		P314 Get medi P333 + P313 If vice/ attention.	F ON SKIN: Wash with plenty of water. cal advice/ attention if you feel unwell. skin irritation or rash occurs: Get medical ad- ake off contaminated clothing and wash it before pillage.
		Disposal: P501 Dispose o disposal plant.	of contents/ container to an approved waste

Other hazards which do not result in classification

None known.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
N-[[(4-chlorophenyl)amino]carbonyl]-2,6- difluorobenzamide	35367-38-5	>= 25 -< 30
Propylene glycol	57-55-6	>= 1 -< 10
Sulfurous acid, monosodium salt, reaction products with (cresol, formaldehyde, nonylphe- nol) polymer	115535-44-9	>= 2.5 -< 10
(R)-p-mentha-1,8-diene	5989-27-5	>= 1 -< 2.5
N,N"-Methylenebis[N'-[3-(hydroxymethyl)-2,5- dioxoimidazolidin-4-yl]urea]	39236-46-9	>= 0.1 -< 0.25

Section 4: First-aid measures

General advice	: In the case of accident or if you feel unwell, seek medical ad- vice immediately.
	When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	: If inhaled, remove to fresh air.





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In	case of skin contact	: In case of con Remove conta Get medical at Wash clothing	before reuse.					
In	case of eye contact	: Flush eyes wit	Thoroughly clean shoes before reuse.Flush eyes with water as a precaution.Get medical attention if irritation develops and persists.					
lf	swallowed	: If swallowed, I Get medical at	DO NOT induce vomiting. Itention if symptoms occur. horoughly with water.					
ar de Pi	lost important symptoms nd effects, both acute and elayed rotection of first-aiders	 May cause an May cause da exposure. First Aid respo and use the re when the pote 	allergic skin reaction. mage to organs through prolonged or repeated onders should pay attention to self-protection, commended personal protective equipment ntial for exposure exists (see section 8).					
N	otes to physician	: Treat sympton	natically and supportively.					
Sectio	on 5: Fire-fighting measu	ires						
S	uitable extinguishing med	ia : Water spray Alcohol-resista Carbon dioxide Dry chemical						
	nsuitable extinguishing edia	: None known.						
	pecific hazards during fire ghting	- : Exposure to co	ombustion products may be a hazard to health.					
	azardous combustion pro-	d- : Carbon oxides Chlorine comp Nitrogen oxide Fluorine comp Metal oxides Sulphur oxides	oounds es (NOx) ounds					
	pecific extinguishing meth ds	cumstances an Use water spra	ning measures that are appropriate to local cir- nd the surrounding environment. ay to cool unopened containers. maged containers from fire area if it is safe to do					
	pecial protective equipme r firefighters		fire, wear self-contained breathing apparatus. protective equipment.					
H	azchem Code	: 3Z						

Section 6: Accidental release measures





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tive e	onal precautions, protec- equipment and emer- y procedures	:	Follow safe hand	otective equipment. Iling advice (see section 7) and personal pro- it recommendations (see section 8).			
Envii	Environmental precautions		 Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. 				
	ods and materials for ainment and cleaning up	:	For large spills, p ment to keep ma be pumped, store Clean up remain bent. Local or national posal of this mate employed in the mine which regul Sections 13 and	rt absorbent material. provide dyking or other appropriate contain- terial from spreading. If dyked material can e recovered material in appropriate container. ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- lations are applicable. 15 of this SDS provide information regarding ational requirements.			
Section 7	: Handling and storage						
Tech	nical measures	:		measures under EXPOSURE RSONAL PROTECTION section.			
	I/Total ventilation ce on safe handling	:	Use only with ad Do not get on ski Do not breathe n Do not swallow. Avoid contact with Handle in accord practice, based of sessment	equate ventilation. in or clothing. hist or vapours.			

	environment.
Hygiene measures	: If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.
	When using do not eat, drink or smoke.
	Contaminated work clothing should not be allowed out of the workplace.
	Wash contaminated clothing before re-use.

The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.



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Cond	itions for safe storage		/ labelled containers. ance with the particular national regulations.
Mater	rials to avoid		h the following product types:

Section 8: Exposure controls/personal protection

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
N-[[(4- chlorophenyl)amino]carbonyl]- 2,6-difluorobenzamide	35367-38-5	TWA	100 µg/m3 (OEB 2)	Internal
Propylene glycol	57-55-6	WES-TWA (particulate)	10 mg/m3	NZ OEL
		WES-TWA (Vapour and particulates)	150 ppm 474 mg/m3	NZ OEL

Components with workplace control parameters

Engineering measures :	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con- tainment devices). Minimize open handling.
Personal protective equipment	
Permiratory protection :	If adequate local exhaust ventilation is not available or expo-

Respiratory protection Filter type Hand protection		If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type
Material	:	Chemical-resistant gloves
Remarks Eye protection	:	Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin and body protection	:	Work uniform or laboratory coat. Additional body garments should be used based upon the



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			posable suits) to	med (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. degowning techniques to remove potentially thing.
ection 9	Physical and chemica	l pro	operties	
Appea	arance	:	suspension	
Colou	ır	:	off-white, to, pinl	k, orange
Odou	r	:	No data available	e
Odou	r Threshold	:	No data available	e
рН		:	No data available	e
Meltir	ng point/freezing point	:	No data available	e
Initial range	boiling point and boiling	:	No data availabl	e
Flash	point	:	No data available	e
Evapo	oration rate	:	No data available	e
Flamr	mability (solid, gas)	:	Not applicable	
Flamr	mability (liquids)	:	No data available	e
	r explosion limit / Upper nability limit	:	No data available	e
	r explosion limit / Lower nability limit	:	No data availabl	e
Vapo	ur pressure	:	No data available	e
Relati	ve vapour density	:	No data available	e
Relati	ve density	:	1.09 - 1.19	
Densi	ty	:	No data available	e
	ility(ies) ater solubility	:	No data available	e
	on coefficient: n-	:	Not applicable	
	ol/water ignition temperature	:	No data available	e
Deco	mposition temperature	:	No data available	e



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Viscos Vis	sity scosity, kinematic	: .	1300 - 2400 mm:	2/s
Explo	sive properties	:	Not explosive	
Oxidiz	ring properties	: -	The substance o	r mixture is not classified as oxidizing.
Molec	ular weight	:	No data available)
	le characteristics le size	:	Not applicable	
ection 10): Stability and reactivi	ty		
Possil tions Condi Incom	ical stability bility of hazardous reac- tions to avoid patible materials dous decomposition	: : : : : : : : : : : : : : : : : : :	Stable under nor Can react with st None known. Oxidizing agents	a reactivity hazard. mal conditions. rong oxidizing agents. ecomposition products are known.
ection 11	I: Toxicological inform	ation		
Expos	sure routes	S Ir	nhalation Skin contact ngestion Eye contact	
	toxicity		(
	assified based on availa conents:	DIE IN	formation.	
	-chlorophenyl)amino]c	arbo	nvl]-2.6-difluoro	benzamide:
	oral toxicity		.D50 (Rat): 4,640	
Acute	inhalation toxicity	E T	C50 (Rat): > 2.4 xposure time: 4 est atmosphere: //ethod: OECD T	h
Acute	dermal toxicity		.D50 (Rabbit): > 2 /lethod: OECD T	2,000 mg/kg est Guideline 402
	/lene glycol:			o //
	oral toxicity		.D50 (Rat): 22,00	
Acute	inhalation toxicity		.C50 (Rat): > 44. Exposure time: 4	



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II			Test atmosphere	e: dust/mist
Acut	e dermal toxicity	:		2,000 mg/kg e substance or mixture has no acute dermal
(R)-p	o-mentha-1,8-diene:			
Acut	e oral toxicity	:		000 mg/kg Fest Guideline 423 on data from similar materials
Acut	e dermal toxicity	:	LD50 (Rabbit): > Remarks: Based	5,000 mg/kg on data from similar materials
•• N.N''	-Methvlenebis[N'-[3-(h	vdro	oxymethyl)-2.5-die	oxoimidazolidin-4-yl]urea]:
	e oral toxicity	-	LD50 (Rat): > 5,0	
Acut	e inhalation toxicity	:	LC50 (Rat): > 5 r Exposure time: 1 Test atmosphere	h
Acute	e dermal toxicity	:	LD50 (Rabbit): >	8,000 mg/kg
Skin	corrosion/irritation			
Not o	classified based on avail	lable	information.	
<u>Com</u>	ponents:			
	4-chlorophenyl)amino			obenzamide:
Spec Meth	cies od	:	Rabbit OECD Test Guid	leline 404
Resu		:	No skin irritation	
Pron	oylene glycol:			
Spec		:	Rabbit	
Meth	od	:	OECD Test Guid	leline 404
Resu	ult	:	No skin irritation	
(R)-p	o-mentha-1,8-diene:			
Spec		:	Rabbit	
Meth Resu		:	OECD Test Guid Skin irritation	ieiine 404
NI N 11	Mothylonabia INU 12 /b	معلمين	www.othul\ 2 E -li	avaimidazalidin 4 vlluzaalı
N,N ^m Spec		iyuro	Rabbit	oxoimidazolidin-4-yl]urea]:
Resu		:	No skin irritation	



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Serious eye damage/eye irritation

Not classified based on available information.

Components:

N-[[(4-chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide:

Species Result Method	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

Propylene glycol:

Species Result Method	: Rabbit
Result	: No eye irritation
Method	: OECD Test Guideline 405

(R)-p-mentha-1,8-diene:

Species Result Method	: Rabbit
Result	: No eye irritation
Method	: OECD Test Guideline 405

N,N"-Methylenebis[N'-[3-(hydroxymethyl)-2,5-dioxoimidazolidin-4-yl]urea]:

Species Result	:	Rabbit
Result	:	No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

N-[[(4-chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide:

Test Type Exposure routes Species Method Result	: Buehler Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: negative

Propylene glycol:

:	Maximisation Test
:	Skin contact
:	Guinea pig
:	negative
	:

(R)-p-mentha-1,8-diene:

Test Type

: Local lymph node assay (LLNA)



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Expos Speci Metho Resu	bd	: Skin contact : Mouse : OECD Test Gui : positive	deline 429				
Asses	ssment	: Probability or ev rate in humans	Probability or evidence of low to moderate skin sensitisation rate in humans				
N,N''-	Methylenebis[N'-[3-	(hydroxymethyl)-2,5-d	ioxoimidazolidin-4-yl]urea]:				
Test Expos Speci Resu	sure routes es	: Maximisation Te : Skin contact : Guinea pig : positive	est				
Asses	ssment	: Probability or ev rate in humans	vidence of low to moderate skin sensitisation				
Chro	nic toxicity						
N-[[(4	oonents: I-chlorophenyl)amin toxicity in vitro		erial reverse mutation assay (AMES) Test Guideline 471				
		Test Type: Chro Method: OECD	omosome aberration test in vitro Test Guideline 473				
Geno	toxicity in vivo	Species: Mouse	ent dominant lethal test (germ cell) (in vivo) e te: Intraperitoneal injection				
Prop	ylene glycol:						
Geno	toxicity in vitro	Result: negative Test Type: Chro	omosome aberration test in vitro Test Guideline 473				
Geno							



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11			
	-mentha-1,8-diene:		
	toxicity in vitro	Method: OE Result: nega	
		Remarks: Ba	sed on data from similar materials
		Test Type: Ir Result: nega	n vitro mammalian cell gene mutation test tive
		Test Type: C Result: nega	hromosome aberration test in vitro tive
Geno	toxicity in vivo	Species: Rat	Route: Ingestion
II N,N''-	Methylenebis[N'-[3-(hydroxymethyl)-2,	5-dioxoimidazolidin-4-yl]urea]:
Geno	toxicity in vitro		acterial reverse mutation assay (AMES) CD Test Guideline 471 tive
		Test Type: C Result: nega	hromosome aberration test in vitro tive
Geno	toxicity in vivo	cytogenetic a Species: Mo Application F Result: nega	use Route: Ingestion
		mammalian Species: Rat Application F Method: OE0 Result: nega	Route: Ingestion CD Test Guideline 486

Carcinogenicity

Not classified based on available information.

Components:

N-[[(4-chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide:

Species	: Rat
Application Route	: Ingestion
Exposure time	: 104 weeks
Species Application Route Exposure time Result	: negative



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Propylene glycol:

Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	2 Years
Result	:	negative

(R)-p-mentha-1,8-diene:

Species	:	Mouse
Application Route	:	Ingestion
Exposure time	:	103 weeks
Result	:	negative

Reproductive toxicity

Not classified based on available information.

Components:

N-[[(4-chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide:

Effects on fertility	: Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative
Effects on foetal develop- ment	: Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Result: negative
Propylene glycol:	
Effects on fertility	: Test Type: Two-generation reproduction toxicity study Species: Mouse Application Route: Ingestion Result: negative
Effects on foetal develop- ment	: Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion Result: negative
(R)-p-mentha-1,8-diene:	
Effects on foetal develop- ment	: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative

N,N"-Methylenebis[N'-[3-(hydroxymethyl)-2,5-dioxoimidazolidin-4-yl]urea]:

Effects on foetal develop-	:	Test Type: Embryo-foetal development



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ment		Species: Mouse Application Rou Result: negative	ite: Ingestion
	Γ - single exposure		
	lassified based on ava		
	Γ - repeated exposur		r) through prolonged or repeated exposure
-		ans (biood, spieen, Live	r) through prolonged or repeated exposure.
	ponents:		
		o]carbonyl]-2,6-difluo	robenzamide:
Targe	sure routes et Organs ssment		Liver lice significant health effects in animals at con- 10 to 100 mg/kg bw.
Targe	sure routes et Organs ssment		
Targe	sure routes et Organs ssment		Liver lice significant health effects in animals at con- 20 to 200 mg/kg bw.
(R)-p	-mentha-1,8-diene:		
Asse	ssment	: No significant h tions of 100 mg	ealth effects observed in animals at concentra /kg bw or less.
-	ated dose toxicity		
	ponents:		
	• • •	o]carbonyl]-2,6-difluo	robenzamide:
Spec LOAE		: Rat : 81 mg/kg	
Appli	cation Route	: Ingestion	
Expo	sure time	: 28 Days	
Speci NOAI	EL	: Rabbit : > 322 mg/kg	
	cation Route sure time	: Skin contact : 28 Days	
Spec NOAI		: Rat : > 0.1 mg/l	
Appli	cation Route sure time	: inhalation (dust : 28 Days	/mist/fume)



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Propylene glycol:

Species NOAEL	: Rat, male : >= 1,700 mg/kg
Application Route	: Ingestion
Exposure time	: 2 yr

(R)-p-mentha-1,8-diene:

Species	:	Rat, male
NOAEL	:	5 mg/kg
LOAEL	:	30 mg/kg
Application Route	:	Ingestion
Exposure time	:	13 Weeks

N,N"-Methylenebis[N'-[3-(hydroxymethyl)-2,5-dioxoimidazolidin-4-yl]urea]:

Species NOAEL	:	Rat, male
NOAEL	:	672 mg/kg
Application Route	:	Ingestion
Exposure time	:	13 Weeks

Aspiration toxicity

Not classified based on available information.

Components:

(R)-p-mentha-1,8-diene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Section 12: Ecological information

Ecotoxicity

Components:

N-[[(4-chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide:

Toxicity to fish	:	LC50 (Cyprinodon variegatus (sheepshead minnow)): > 0.13 mg/l Exposure time: 96 h Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.00026 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): > 0.2 mg/l Exposure time: 72 h Remarks: No toxicity at the limit of solubility
M-Factor (Acute aquatic tox-	:	1,000





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icity)				
icity)	ity to fish (Chronic tox-	:	Exposure time: 3	es promelas (fathead minnow)): 0.1 mg/l 5 d
	ity to daphnia and other ic invertebrates (Chron- icity)	:	NOEC (Daphnia i Exposure time: 2	nagna (Water flea)): 0.00004 mg/l l d
	ctor (Chronic aquatic	:	1,000	
Propy	vlene glycol:			
Toxici	ity to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 40,613 mg/l S h
	ity to daphnia and other ic invertebrates	:	EC50 (Ceriodaph Exposure time: 48	nia dubia (water flea)): 18,340 mg/l 3 h
Toxici plants	ity to algae/aquatic	:	ErC50 (Skeletone Exposure time: 72 Method: OECD T	
	ic invertebrates (Chron-	:	NOEC (Ceriodapl Exposure time: 7	nnia dubia (water flea)): 13,020 mg/l d
	ity to microorganisms	:	NOEC (Pseudom Exposure time: 18	onas putida): > 20,000 mg/l 3 h
Sulfu	rous acid, monosodiur	n sa	alt, reaction produ	ucts with (cresol, formaldehyde,
	Iphenol) polymer:			····· , ····· , ···· , ···· ,
Toxici	ity to fish	:	Exposure time: 96) (zebra fish)): > 10 - 100 mg/l ଚ h est Guideline 203
				on data from similar materials
	mentha-1,8-diene:			
Toxic		•	LC50 (Pimephale	s promelas (fathead minnow)): 0.720 mg/l
	ity to fish	•	Exposure time: 90	
	ity to daphnia and other	:	Exposure time: 96 EC50 (Daphnia m	δ h nagna (Water flea)): 307 μg/l
		:	Exposure time: 90	δ h hagna (Water flea)): 307 μg/l 3 h
aquat	ity to daphnia and other ic invertebrates ity to algae/aquatic	:	Exposure time: 96 EC50 (Daphnia m Exposure time: 48 Method: OECD T ErC50 (Pseudokin mg/l	δ h hagna (Water flea)): 307 μg/l 3 h est Guideline 202 rchneriella subcapitata (green algae)): 0.25
aquat Toxici	ity to daphnia and other ic invertebrates ity to algae/aquatic	:	Exposure time: 96 EC50 (Daphnia m Exposure time: 48 Method: OECD T ErC50 (Pseudokin	S h nagna (Water flea)): 307 μg/l 3 h est Guideline 202 rchneriella subcapitata (green algae)): 0.25 2 h
aquat Toxici	ity to daphnia and other ic invertebrates ity to algae/aquatic	:	Exposure time: 96 EC50 (Daphnia m Exposure time: 44 Method: OECD T ErC50 (Pseudokin mg/l Exposure time: 72 Method: OECD T	S h hagna (Water flea)): 307 μg/l 3 h est Guideline 202 chneriella subcapitata (green algae)): 0.2ξ 2 h est Guideline 201 chneriella subcapitata (green algae)): 0.14





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	ctor (Acute aquatic tox-	:	1	
icity) Toxici icity)	ty to fish (Chronic tox-	:	EC10 (Pimephale Exposure time: 8	es promelas (fathead minnow)): 0.37 mg/l d
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2	nagna (Water flea)): 0.153 mg/l 1 d est Guideline 211
Toxici	ty to microorganisms	:		
		dro		oxoimidazolidin-4-yl]urea]:
Toxici	ty to fish	:	LC50 (Lepomis n Exposure time: 9	nacrochirus (Bluegill sunfish)): > 220 mg/l 6 h
	ty to daphnia and other ic invertebrates	:	Exposure time: 4	nagna (Water flea)): > 10 - 100 mg/l 8 h on data from similar materials
Toxici plants	ty to algae/aquatic	:	10 mg/l Exposure time: 7 Method: Directive	rchneriella subcapitata (green algae)): > 1 2 h e 67/548/EEC, Annex V, C.3. on data from similar materials
			10 mg/l Exposure time: 7 Method: Directive	rchneriella subcapitata (green algae)): > 1 2 h 9 67/548/EEC, Annex V, C.3. on data from similar materials
Toxici	ty to microorganisms	:	Exposure time: 3 Method: OECD T	sludge): > 100 mg/l h est Guideline 209 on data from similar materials
Persis	stence and degradabili	ity		
<u>Comp</u>	oonents:			
	-chlorophenyl)amino]c gradability	ark: :	Result: Not readil	
II Propv	/lene glycol:			
	gradability	:	Result: Readily b Biodegradation:	
			16 / 20	



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		Exposure time: Method: OECD	28 d Test Guideline 301F
и (R)-р	-mentha-1,8-diene:		
Biodegradability :		: Result: Readily Biodegradation Exposure time: Method: OECD	: 71.4 %
I			
		• • • • • •	ioxoimidazolidin-4-yl]urea]:
BIODE	gradability	Biodegradation Exposure time:	
Bioa	ccumulative potentia	I	
<u>Com</u>	ponents:		
		o]carbonyl]-2,6-difluo	
Bioac	cumulation		nis macrochirus (Bluegill sunfish) n factor (BCF): 78 - 360
	ion coefficient: n- ol/water	: log Pow: < 4	
	ylene glycol:		
	ion coefficient: n- ol/water	: log Pow: -1.07 Method: Regula	ation (EC) No. 440/2008, Annex, A.8
(R)-p	-mentha-1,8-diene:		
	ion coefficient: n- ol/water	: log Pow: 4.38	
N,N"·	Methylenebis[N'-[3-(ioxoimidazolidin-4-yl]urea]:
	ion coefficient: n- ol/water	: log Pow: < 4 Remarks: Expe	rt judgement
	lity in soil ata available		
	r adverse effects		
	ata available		
ection 1	3: Disposal consider	ations	
-	osal methods		
Wast	e from residues		of waste into sewer.
0	minated packaging	•	cordance with local regulations.



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				ycling or disposal. specified: Dispose of as unused product.
ection 1	4: Transport information	on		
Inter	national Regulations			
UNR				
	umber	÷		
Prope	er shipping name	÷	N.O.S.	FALLY HAZARDOUS SUBSTANCE, LIQUID
				enyl)amino]carbonyl]-2,6-difluorobenzamide 8-diene)
Class	3	:	9	,
	ing group	:	111	
Labe		:	9	
Envir	onmentally hazardous	÷	yes	
	-DGR			
UN/IE		:	UN 3082	
Prope	er shipping name	:		hazardous substance, liquid, n.o.s. enyl)amino]carbonyl]-2,6-difluorobenzamide 8-diene)
Class		:	9	
	ing group	:		
Label	is ing instruction (cargo	÷	Miscellaneous 964	
aircra		•	304	
ger a	ing instruction (passen- ircraft)	:	964	
Envir	onmentally hazardous	:	yes	
IMDO	G-Code			
	umber	:	UN 3082	
Prope	er shipping name	:		TALLY HAZARDOUS SUBSTANCE, LIQUID
			N.O.S. (N-[[(4-chloroph (R)-p-mentha-1,	enyl)amino]carbonyl]-2,6-difluorobenzamide
Class	3		9	o-dierie)
	, ing group	:	Ĩ	
Labe		:	9	
	Code ne pollutant	:	F-A, S-F yes	
Trans	sport in bulk according	g to	Annex II of MAR	POL 73/78 and the IBC Code
	pplicable for product as	-		
	onal Regulations	r		
NZS	5433			
	umber	:	UN 3082	
	er shipping name	:		FALLY HAZARDOUS SUBSTANCE, LIQUID

er	:	UN 3082
ipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(N-[[(4-chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide,



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	(R)-p-mentha-1,8-diene)
Class	: 9
Packing group	: 111
Labels	: 9
Hazchem Code	: 3Z
Marine pollutant	: no

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.

Section 15: Regulatory information

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

HSNO Approval Number

HSR002398 Liquid containing 20 - 30% Diflubenzuron

Tolerable Exposure Limits (TEL)

Chemical name	Environmental compartment	Reference concentration
diflubenzuron	Air (inhalation)	0.003 mg/m3

Environmental Exposure Limits (EEL)

Chemical name	Environmental compartment	Reference concentration
diflubenzuron	Fresh water	0.37 μg/l
diflubenzuron	Marine water	0.2 μg/l

HSW Controls

Certified handler certificate not required.

Tracking hazardous substance not required.

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

The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

Section 16: Other information

Revision Date	:	28.09.2024
Further information Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/



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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format : dd.mm.yyyy

Full text of other abbreviations NZ OEL : New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

NZ OEL / WES-TWA : Workplace Exposure Standard - Time Weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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