according to GB/T 16483 and GB/T 17519



## Diflubenzuron (25%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
3.0	2024/09/28	10877037-00009	Date of first issue: 2022/10/26

#### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	Diflubenzuron (25%) Formulation			
Other means of identification	:	Zenith Concentrate (A006102)			
<b>Manufacturer or supplier's d</b> Company	etai :	ils MSD			
Address	:	No. 485 Jing Tai Road Pu Tuo District - Shanghai - China 200331			
Telephone	:	+1-908-740-4000			
Emergency telephone number	:	86-571-87268110			
E-mail address	:	EHSDATASTEWARD@msd.com			
Recommended use of the chemical and restrictions on use					
Recommended use Restrictions on use	:	Veterinary product Not applicable			

#### 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

Appearance Colour Odour	:	suspension off-white, to, pink, orange No data available			
Causes mild skin irritation. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.					
GHS Classification					
Skin corrosion/irritation	:	Category 3			
Skin sensitisation	:	Category 1			
Specific target organ toxicity - repeated exposure	:	Category 2			
Short-term (acute) aquatic hazard	:	Category 1			
Long-term (chronic) aquatic hazard	:	Category 1			

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••	<b>ibel elements</b> I pictograms		!
Signal	word	: Warning	$\mathbf{\vee}$
Hazard	I statements	H317 May caus H373 May caus peated exposur	hild skin irritation. e an allergic skin reaction. e damage to organs through prolonged or re- e. e to aquatic life with long lasting effects.
Precau	tionary statements	P272 Contamin the workplace.	eathe mist or vapours. ated work clothing should not be allowed out of ease to the environment. ective gloves.
		P314 Get medic P333 + P313 If vice/ attention.	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 illage.
		Disposal:	f contents/ container to an approved waste
Physic	al and chemical haza	ards	

Not classified based on available information.

#### Health hazards

Causes mild skin irritation. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure.

#### Environmental hazards

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

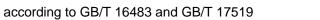
#### Other hazards which do not result in classification

None known.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components





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Chemical name	CAS-No.	Concentration (% w/w)
N-[[(4-chlorophenyl)amino]carbonyl]-2,6- difluorobenzamide	35367-38-5	>= 25 -< 30
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

#### 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. Get medical attention if symptoms occur.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed		Causes mild skin irritation. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.
5. FIREFIGHTING MEASURE	ES	
Suitable extinguishing me	edia :	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fi fighting	ire- :	Exposure to combustion products may be a hazard to health.

according to GB/T 16483 and GB/T 17519



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	Hazard ucts	ous combustion prod-	:	Carbon oxides Chlorine compour Nitrogen oxides (1 Fluorine compour Metal oxides Sulphur oxides	√Ox)
	Specific ods	extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Special for firefi	protective equipment ghters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
6. A	CCIDEN	ITAL RELEASE MEAS	SUR	RES	
	tive equ	al precautions, protec- ipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
	Environ	mental precautions	:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages
		s and materials for ment and cleaning up	:	For large spills, pr ment to keep mate be pumped, store Clean up remaining bent. Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	a absorbent material. Tovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. In materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- tions are applicable. 5 of this SDS provide information regarding tional requirements.

#### 7. HANDLING AND STORAGE

#### Handling

**Technical measures** 

: See Engineering measures under EXPOSURE

according to GB/T 16483 and GB/T 17519



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Advid	Local/Total ventilation Advice on safe handling		Use only with add Do not get on ski Do not breathe m Do not swallow. Avoid contact wit Handle in accord practice, based of sessment	list or vapours.
	dance of contact	•		
Stora	-			
	litions for safe storage	:	Store in accordar	labelled containers. nce with the particular national regulations. the following product types:
mate		•	Strong oxidizing	<b>0</b> , ,,
Pack	aging material	:	Unsuitable mater	ial: None known.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
N-[[(4- chlorophenyl)amino]carbony 2,6-difluorobenzamide	35367-38-5 I]-	TWA	100 μg/m3 (OEB 2)	Internal

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	

Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type	:	Combined particulates and organic vapour type
Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.

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	and body protection protection	potential for dire aerosols. : Work uniform o Additional body task being perfo posable suits) t	eld or other full face protection if there is a ect contact to the face with dusts, mists, or or laboratory coat. y garments should be used based upon the ormed (e.g., sleevelets, apron, gauntlets, dis- to avoid exposed skin surfaces. e degowning techniques to remove potentially clothing.
Ma	aterial	: Chemical-resist	tant gloves
	emarks ne measures	eye flushing sys ing place. When using do Contaminated v workplace. Wash contamin The effective op engineering con appropriate deg	chemical is likely during typical use, provide stems and safety showers close to the work- not eat, drink or smoke. work clothing should not be allowed out of the nated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Colour	:	off-white, to, pink, orange
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available

according to GB/T 16483 and GB/T 17519



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		explosion limit / Upper ability limit	:	No data available	
		explosion limit / Lower ability limit	:	No data available	
	Vapour	pressure	:	No data available	)
	Relativ	e vapour density	:	No data available	)
	Relativ	e density	:	1.09 - 1.19	
	Density	/	:	No data available	)
	Solubili Wat	ity(ies) er solubility	:	No data available	9
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	1300 - 2400 mm2	2/s
	Explosi	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	ılar weight	:	No data available	
	Particle Particle	e characteristics e size	:	Not applicable	

#### **10. STABILITY AND REACTIVITY**

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products		None known. Oxidizing agents No hazardous decomposition products are known.

#### **11. TOXICOLOGICAL INFORMATION**

Exposure routes

: Inhalation Skin contact

according to GB/T 16483 and GB/T 17519



ersion 0	Revision Date: 2024/09/28		DS Number: 9877037-00009	Date of last issue: 2024/07/06 Date of first issue: 2022/10/26
			Ingestion Eye contact	
	e toxicity lassified based on ava	ilabla	information	
Prod			iniornation.	
	e oral toxicity	:	Acute toxicity es Method: Calcula	timate: > 5,000 mg/kg tion method
<u>Com</u>	ponents:			
N-[[(4	l-chlorophenyl)amine	o]carl	oonyl]-2,6-difluoi	obenzamide:
Acute	e oral toxicity	:	LD50 (Rat): 4,64	10 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 2. Exposure time: 4 Test atmosphere Method: OECD	4 h
Acute	e dermal toxicity	:	LD50 (Rabbit): > Method: OECD	> 2,000 mg/kg Test Guideline 402
 (R)-p∙	-mentha-1,8-diene:			
Acute	e oral toxicity	:		000 mg/kg Test Guideline 423 d on data from similar materials
Acute	e dermal toxicity	:		> 5,000 mg/kg d on data from similar materials
	Methylenebis[N'-[3-(	hydro	oxymethyl)-2,5-di	oxoimidazolidin-4-yl]urea]:
Acute	e oral toxicity	:	LD50 (Rat): > 5,	000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5 Exposure time: Test atmosphere	1 h
Acute	e dermal toxicity	:	LD50 (Rabbit): >	> 8,000 mg/kg
-	corrosion/irritation es mild skin irritation.			
Com	ponents:			
N-[[(4	l-chlorophenyl)amin	o]carl	oonyl]-2,6-difluoi	obenzamide:
Speci Metho Resu	bc	:	Rabbit OECD Test Gui No skin irritation	

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

Species	: Rabbit
Method	: OECD Test Guideline 404
Species Method Result	: Skin irritation

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

Species Result	:	Rabbit
Result	:	No skin irritation

#### 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

#### (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

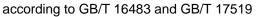
May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified based on available information.

#### Components:

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





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

Test Type Exposure routes Species Method Result	<ul> <li>Local lymph node assay (LLNA)</li> <li>Skin contact</li> <li>Mouse</li> <li>OECD Test Guideline 429</li> <li>positive</li> </ul>
Assessment	: Probability or evidence of low to moderate skin sensitisation rate in humans

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

Test Type Exposure routes Species Result		Maximisation Test Skin contact Guinea pig positive
Assessment	:	Probability or evidence of low to moderate skin sensitisation rate in humans

#### Germ cell mutagenicity

Not classified based on available information.

#### **Components:**

	N-[[(4-chloropheny)/annhojcarbonyi]-z,0-dhluorobenzannue.				
Genotoxicity in vitro :		:	Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative		
			Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative		
	Genotoxicity in vivo	:	Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Intraperitoneal injection Result: negative		
	(R)-p-mentha-1,8-diene:				
	Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials		
			Test Type: In vitro mammalian cell gene mutation test Result: negative		
			Test Type: Chromosome aberration test in vitro Result: negative		

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Genoto	oxicity in vivo	: Test Type: In vivo Species: Rat Application Route Result: negative	o mammalian alkaline comet assay :: Ingestion
N,N''-N	lethylenebis[N'-[3-(hy	/droxymethyl)-2,5-dio	xoimidazolidin-4-yl]urea]:
Genoto	oxicity in vitro	Method: OECD T Result: negative	rial reverse mutation assay (AMES) est Guideline 471 nosome aberration test in vitro
		Result: negative	
Genoto	oxicity in vivo	cytogenetic assay Species: Mouse Application Route Result: negative	
		mammalian liver of Species: Rat Application Route Method: OECD T Result: negative	: Ingestion

#### Carcinogenicity

Not classified based on available information.

#### Components:

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

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

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

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

#### **Reproductive toxicity**

Not classified based on available information.

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#### 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
(R)-p-mentha-1,8-diene:	. Toot Turney Frederics footal deviation month

Effects on foetal develop-		Test Type: Embryo-foetal development
ment		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
ment		Species: Mouse
		Application Route: Ingestion
		Result: negative

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### **Components:**

...

Exposure routes Target Organs Assessment		Ingestion Blood, spleen, Liver Shown to produce significant health effects in animals at con- centrations of >10 to 100 mg/kg bw.
Exposure routes Target Organs Assessment	:	inhalation (dust/mist/fume) Blood, spleen, Liver Shown to produce significant health effects in animals at con- centrations of >0.02 to 0.2 mg/l/6h/d.
Exposure routes Target Organs Assessment	:	Skin contact Blood, spleen, Liver Shown to produce significant health effects in animals at con- centrations of >20 to 200 mg/kg bw.

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(R)-p- Asses	<b>mentha-1,8-diene:</b> sment	: No significant h tions of 100 mg	ealth effects observed in animals at concentra /kg bw or less.
Repea	ated dose toxicity		
<u>Comp</u>	onents:		
N-[[(4·	-chlorophenyl)amin	o]carbonyl]-2,6-difluo	robenzamide:
Specie LOAE Applic Expos		: Rat : 81 mg/kg : Ingestion : 28 Days	
		: Rabbit : > 322 mg/kg : Skin contact : 28 Days	
		: Rat : > 0.1 mg/l : inhalation (dust : 28 Days	/mist/fume)
(R)-p-	mentha-1,8-diene:		
Specie NOAE LOAE Applic	es L	: Rat, male : 5 mg/kg : 30 mg/kg : Ingestion : 13 Weeks	
N,N''-I	Methylenebis[N'-[3-(	(hydroxymethyl)-2,5-d	ioxoimidazolidin-4-yl]urea]:
Specie NOAE	es	: Rat, male : 672 mg/kg : Ingestion : 13 Weeks	

#### **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.

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#### **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

#### **Components:**

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- icity)	:	1,000
Toxicity to fish (Chronic tox- icity)	:	NOEC (Pimephales promelas (fathead minnow)): 0.1 mg/l Exposure time: 35 d
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.00004 mg/l Exposure time: 21 d
M-Factor (Chronic aquatic toxicity)	:	1,000
Sulfurous acid, monosodiun nonylphenol) polymer:	n sa	alt, reaction products with (cresol, formaldehyde,
Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 10 - 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
(R)-p-mentha-1,8-diene:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 0.720 mg/l Exposure time: 96 h
Toxicity to daphnia and other	:	EC50 (Daphnia magna (Water flea)): 307 μg/l

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rsion )	Revision Date: 2024/09/28	-	9S Number: 877037-00009	Date of last issue: 2024/07/06 Date of first issue: 2022/10/26
			EC10 (Pseudokiro mg/l Exposure time: 72 Method: OECD T	
icity)	ctor (Acute aquatic tox-	:	1	
l oxici icity)	ty to fish (Chronic tox-	:	EC10 (Pimephale Exposure time: 8	s promelas (fathead minnow)): 0.37 mg/l d
	ic invertebrates (Chron-	:	EC10 (Daphnia m Exposure time: 27 Method: OECD T	
Toxici	Toxicity to microorganisms		EC50: > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials	
	oxicology Assessment hic aquatic toxicity	:		atic life with long lasting effects. on national or regional regulation.
	<b>Methylenebis[N'-[3-(hy</b> ty to fish	dro :		<b>xoimidazolidin-4-yl]urea]:</b> acrochirus (Bluegill sunfish)): > 220 mg/l S h
	ty to daphnia and other ic invertebrates	:	Exposure time: 48	agna (Water flea)): > 10 - 100 mg/l 3 h on data from similar materials
Toxici plants	ty to algae/aquatic	:	10 mg/l Exposure time: 72 Method: Directive Remarks: Based	67/548/EEC, Annex V, C.3. on data from similar materials
			10 mg/l Exposure time: 72 Method: Directive	rchneriella subcapitata (green algae)): > 1 2 h 67/548/EEC, Annex V, C.3. on data from similar materials
Toxici	ty to microorganisms	:	Exposure time: 3 Method: OECD T	

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Porci	istones and degrade	hility		
	stence and degrada ponents <u>:</u>	Dility		
	 -chlorophenyl)amin	olcark	onvil-2 6-difluo	robenzamide:
	gradability	:	Result: Not read	lily biodegradable. Test Guideline 301
•• (R)-p	-mentha-1,8-diene:			
Biode	egradability	:	Result: Readily Biodegradation: Exposure time: 2 Method: OECD	71.4 %
N,N"-	-Methylenebis[N'-[3-	(hydro	oxymethyl)-2,5-di	ioxoimidazolidin-4-yl]urea]:
Biode	egradability	:	Result: Not read Biodegradation: Exposure time:	
Bioad	ccumulative potentia	al		
Com	ponents:			
N-[[(4	I-chlorophenyl)amin	o]cart	oonyl]-2,6-difluoi	robenzamide:
Bioac	cumulation	:		is macrochirus (Bluegill sunfish) n factor (BCF): 78 - 360
	ion coefficient: n- ol/water	:	log Pow: < 4	
	-mentha-1,8-diene:			
	ion coefficient: n- ol/water	:	log Pow: 4.38	
N,N''-	Methylenebis[N'-[3-	(hydro	oxymethyl)-2,5-di	ioxoimidazolidin-4-yl]urea]:
	ion coefficient: n- ol/water	:	log Pow: < 4 Remarks: Exper	rt judgement
	<b>lity in soil</b> ata available			
	<b>r adverse effects</b> ata available			
3. DISPC	SAL CONSIDERATI	ONS		
Dian	and motheda			
-	osal methods e from residues	:		of waste into sewer. cordance with local regulations.



according to GB/T 16483 and GB/T 17519

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Conta	minated packaging	:	dling site for recy	s should be taken to an approved waste han- cling or disposal. pecified: Dispose of as unused product.
14. TRAN	SPORT INFORMATION	ļ		
Interr	national Regulations			
UNR1 UN nu Prope		:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID, enyl)amino]carbonyl]-2,6-difluorobenzamide,
Label	ng group	:	9 III 9 yes	
IATA∙ UN/IE Prope		:		nazardous substance, liquid, n.o.s. enyl)amino]carbonyl]-2,6-difluorobenzamide, -diene)
Label Packi aircra Packi ger ai	ng group s ng instruction (cargo	:	9 III Miscellaneous 964 964 yes	
UN ni	i <b>-Code</b> umber er shipping name	:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID, nyl)amino]carbonyl]-2,6-difluorobenzamide,
Label EmS	ng group s	:	9 III 9 F-A, S-F yes	
	sport in bulk according	-		OL 73/78 and the IBC Code
Natio	nal Regulations			
UN nu	944/12268 umber er shipping name	:	UN 3082 ENVIRONMENT.	ALLY HAZARDOUS SUBSTANCE, LIQUID,

Version



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Revision Date:

## **Diflubenzuron (25%) Formulation**

SDS Number:

0	2024/09/28	SDS Number: 10877037-00009	Date of last Date of first	issue: 2022/10/26
Labels	ng group S e pollutant	N.O.S. (N-[[(4-chloroph (R)-p-mentha-1, : 9 : III : 9 : no		rbonyl]-2,6-difluorobenzamide,
The trabased based Sheet	upon the properties	(s) provided herein are to of the unpackaged mate sifications may vary by r	rial as it is des	al purposes only, and solely scribed within this Safety Data ortation, package sizes, and va
5. REGUI		ΓΙΟΝ		
Law o		nd Control of Occupati		
	ogue of Hazardous C	anagement of Hazardo hemicals	: This logue meet chen	product is not listed in the cata of hazardous chemicals, but is the definition of hazardous nicals and its principles of de- ination.
Identif 18218		ard Installations for Haza	rdous Chemic	als (GB : Not listed
		Priority Management und	er : Not I	isted
Hazar SAWS	0			
SAWS Regul		-	s where Toxi : Not I	c Substances are Used isted
Regul Catalo Regul	l <b>ations on Labour P</b> ogue of Highly Toxic	Chemicals ntal Management on th	: Not I	
Regul Regul Catalo Regul and E	lations on Labour P ogue of Highly Toxic lation of Environme xport of Toxic Cher Severely Restricted	Chemicals ntal Management on th	: Not I e First Impor	isted t of Chemicals and the Impo
Regul Catalo Regul and E China and E Regul	lations on Labour P ogue of Highly Toxic lation of Environme xport of Toxic Cher Severely Restricted xport	Chemicals ntal Management on th nicals	: Not I e First Impor ort : Not I Chemicals	isted t of Chemicals and the Impo isted
SAWS Regul Catalo Regul and E China and E Regul Catalo	lations on Labour P ogue of Highly Toxic lation of Environme xport of Toxic Cher Severely Restricted xport	Chemicals ntal Management on the nicals Toxic Chemicals for Imp istration of Precursor on of Precursor Chemica	: Not I e First Impor ort : Not I Chemicals	isted t of Chemicals and the Impo isted
SAWS Regul Catalo Regul and E China and E Regul Catalo Yangt	lations on Labour P ogue of Highly Toxic lation of Environme xport of Toxic Cher Severely Restricted xport lation on the Admin ogue and Classification	Chemicals ntal Management on the nicals Toxic Chemicals for Imp istration of Precursor on of Precursor Chemica Law	: Not I e First Impor ort : Not I Chemicals Is : Not I	isted t of Chemicals and the Impo isted



according to GB/T 16483 and GB/T 17519

## Diflubenzuron (25%) Formulation

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D	DSL		:	not determined	
IE	ECSC		:	not determined	
16. O	THER	INFORMATION			
R	Revisio	n Date	:	2024/09/28	
F	urthe	r information			
C	Sources of key data used to compile the Safety Data Sheet		:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/

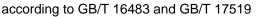
Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

: yyyy/mm/dd

Date format

Full text of other abbreviations

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 Recom-





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mendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

#### Disclaimer

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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