

according to the OSHA Hazard Communication Standard

Diflubenzuron Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 11/22/2023
2.1	01/25/2024	10808116-00006	Date of first issue: 07/05/2022

SECTION 1. IDENTIFICATION

Product name	:	Diflubenzuron Formulation
Other means of identification	:	Magnum (A007704)

Manufacturer or supplier's details

Company name of supplier	:	Merck & Co., Inc
Address	:	126 E. Lincoln Avenue
		Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@merck.com

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)				
Serious eye damage	:	Category 1		
Specific target organ toxicity - repeated exposure	:	Category 2 (Blood, spleen, Liver)		
GHS label elements				
Hazard pictograms	:			
Signal Word	:	Danger		
Hazard Statements	:	H318 Causes serious eye damage. H373 May cause damage to organs (Blood, spleen, Liver) through prolonged or repeated exposure.		
Precautionary Statements	:	Prevention: P260 Do not breathe mist or vapors. P280 Wear eye protection and face protection.		
		Response: P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER. P314 Get medical attention if you feel unwell.		
		Disposal:		



according to the OSHA Hazard Communication Standard

Diflubenzuron Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 11/22/2023
2.1	01/25/2024	10808116-00006	Date of first issue: 07/05/2022

P501 Dispose of contents and container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Propylene glycol	57-55-6	6
Nonylphenol, ethoxylated	9016-45-9	3
N-[[(4-chlorophenyl)amino]carbonyl]-	35367-38-5	2.5
2,6-difluorobenzamide		

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air.
In case of skin contact	:	of water.
In case of eye contact	:	Get medical attention if symptoms occur. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
		If easy to do, remove contact lens, if worn. Get medical attention immediately.
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 serious eye damage. 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.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2)
		Dry chemical
Unsuitable extinguishing media	:	None known.



according to the OSHA Hazard Communication Standard

Diflubenzuron Formulation

Version 2.1	Revision Date: 01/25/2024		DS Number: 808116-00006	Date of last issue: 11/22/2023 Date of first issue: 07/05/2022	
fighti	ific hazards during fire ng Irdous combustion prod-	:	 Exposure to combustion products may be a hazard to he Carbon oxides Chlorine compounds Nitrogen oxides (NOx) Fluorine compounds Metal oxides Phosphorus compounds 		
ods			Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.		
for fir	ial protective equipment e-fighters		Use personal prot	e, wear self-contained breathing apparatus. ective equipment.	
SECTION	6. ACCIDENTAL RELE	AS	E MEASURES		
tive e	Personal precautions, protec- tive equipment and emer- gency procedures			ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).	
Envir	Environmental precautions		Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages	
	ods and materials for ainment and cleaning up	:	For large spills, pro- containment to kee can be pumped, so container. Clean up remaining absorbent. Local or national up disposal of this mo- employed in the co- determine which mo- Sections 13 and 1	a absorbent material. Tovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate ing materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding tional requirements.	

SECTION 7. HANDLING AND STORAGE

Technical measures	: See Engineering measures under EXPOSUR	E
	CONTROLS/PERSONAL PROTECTION sec	ion.
Local/Total ventilation	: Use only with adequate ventilation.	
Advice on safe handling	: Do not breathe mist or vapors.	
_	Do not swallow.	



according to the OSHA Hazard Communication Standard

Diflubenzuron Formulation

Version 2.1	Revision Date: 01/25/2024	SDS Number: 10808116-00006	Date of last issue: 11/22/2023 Date of first issue: 07/05/2022		
		Do not get in eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Take care to prevent spills, waste and minimize release to the environment.			
Conditions for safe storage		Keep tightly close	Keep in properly labeled containers. Keep tightly closed.		
Materials to avoid		 Store in accordance with the particular national regulations. Do not store with the following product types: Strong oxidizing agents Gases 			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Propylene glycol	57-55-6	TWA	10 mg/m ³	US WEEL
N-[[(4- chlorophenyl)amino]carbonyl]- 2,6-difluorobenzamide	35367-38-5	TWA	100 µg/m3 (OEB 2)	Internal

Ingredients 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 containment devices). Minimize open handling.
Personal protective equipmen	t
Respiratory protection :	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
Hand protection	



according to the OSHA Hazard Communication Standard

Diflubenzuron Formulation

Version 2.1	Revision Date: 01/25/2024	SDS Number: 10808116-00006	Date of last issue: 11/22/2023 Date of first issue: 07/05/2022				
Ма	aterial	: Chemical-resis	tant gloves				
	marks rotection	 Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditi mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is potential for direct contact to the face with dusts, mists, aerosols. 					
Skin a	ind body protection	Additional body task being perf disposable suit Use appropriat	: Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potential contaminated clothing.				
Hygiene measures		eye flushing sy working place. When using do Wash contamin The effective o engineering co appropriate de industrial hygie	chemical is likely during typical use, provide estems and safety showers close to the o not eat, drink or smoke. hated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ene monitoring, medical surveillance and the trative controls.				

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution, suspension
Color	:	No data available
Odor	:	No data available
Odor 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
Upper explosion limit / Upper flammability limit	:	No data available



according to the OSHA Hazard Communication Standard

Diflubenzuron Formulation

Ver 2.1	sion	Revision Date: 01/25/2024		S Number: 308116-00006	Date of last issue: 11/22/2023 Date of first issue: 07/05/2022
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	oressure	:	No data available	
	Relative	e vapor density	:	No data available	,
	Relative	e density	:	No data available	,
	Density	/	:	No data available	
	Solubili Wat	ity(ies) er solubility	:	No data available	
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	1
	Decom	position temperature	:	No data available	1
	Viscosi Visc	ty cosity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidiziı	ng properties	:	The substance of	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
	Particle	e size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability	:	Not classified as a reactivity hazard. Stable under normal conditions.
	:	Can react with strong oxidizing agents.
tions		
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact



according to the OSHA Hazard Communication Standard

Diflubenzuron Formulation

rsion	Revision Date: 01/25/2024	SDS Number: 10808116-00006	Date of last issue: 11/22/2023 Date of first issue: 07/05/2022
	e toxicity lassified based on ava	ilable information.	
Produ			
	oral toxicity		estimate: > 5,000 mg/kg ulation method
Comp	oonents:		
Propy	ylene glycol:		
Acute	oral toxicity	: LD50 (Rat): 2	2,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): > Exposure time Test atmosph	
Acute	e dermal toxicity	: LD50 (Rabbit) Assessment: toxicity): > 2,000 mg/kg The substance or mixture has no acute dermal
Nony	Iphenol, ethoxylated	:	
Acute	oral toxicity	: LD50 (Rat): 5	00 - 2,000 mg/kg
NI 11/4	-chlorophenyl)amin	alaarhanydl 26 difly	uerebenzemide.
	oral toxicity	: LD50 (Rat): 4	
Acute	inhalation toxicity	•	
Acute	dermal toxicity	: LD50 (Rabbit) Method: OEC): > 2,000 mg/kg D Test Guideline 402
Skin	corrosion/irritation		
Not cl	assified based on ava	ilable information.	
<u>Comp</u>	oonents:		
Propy	ylene glycol:		
Speci Metho Resul	bd	: Rabbit : OECD Test G : No skin irritati	
Nonv	Iphenol, ethoxylated	:	
Speci Metho Resul	es od	: Rabbit : OECD Test G : No skin irritati	

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



according to the OSHA Hazard Communication Standard

Diflubenzuron Formulation

Versi 2.1	on	Revision Date: 01/25/2024	-	98 Number: 808116-00006	Date of last issue: 11/22/2023 Date of first issue: 07/05/2022
ſ	Species Method Result	;	:	Rabbit OECD Test Guide No skin irritation	eline 404
		s eye damage/eye irri serious eye damage.	itati	on	
	Compo				
		ene glycol:			
s F	Species Result Method	•••	:	Rabbit No eye irritation OECD Test Guide	eline 405
I	Nonylp	henol, ethoxylated:			
F	Species Result Method	3	:	Rabbit Irreversible effects OECD Test Guide	
I	N-[[(4-c	hlorophenyl)amino]o	cark	onyl]-2,6-difluoro	benzamide:
F	Species Result Method	5	:	Rabbit No eye irritation OECD Test Guide	eline 405
F	Respira	atory or skin sensitiz	atio	n	
		nsitization sified based on availa	ble	information.	
	-	atory sensitization ssified based on availa	ble	information.	
<u>q</u>	Compo	<u>nents:</u>			
- !	Test Ty	of exposure		Maximization Tes Skin contact Guinea pig negative	t
I	Nonylp	henol, ethoxylated:			
F S F	Test Ty Routes Species Result Remark	of exposure	:	Maximization Tes Skin contact Guinea pig negative Based on data fro	t om similar materials

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

Test Type	: Buehler Test	
Routes of exposure	: Skin contact	
Species	: Guinea pig	



according to the OSHA Hazard Communication Standard

Diflubenzuron Formulation

ersion 1	Revision Date: 01/25/2024	SDS Number:Date of last issue: 11/22/202310808116-00006Date of first issue: 07/05/2022
Metho Resul		: OECD Test Guideline 406 : negative
	a cell mutagenicity lassified based on av	ailable information.
Com	oonents:	
Propy	ylene glycol:	
Geno	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative
Geno	toxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative
Nony	Iphenol, ethoxylate	d:
Geno	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials
N-[[(4	-chlorophenyl)amir	o]carbonyl]-2,6-difluorobenzamide:
Geno	toxicity 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
Geno	toxicity in vivo	: Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Intraperitoneal injection Result: negative
	nogenicity lassified based on av	ailable information.
<u>Com</u>	oonents:	
Propy	ylene glycol:	
	cation Route sure time	: Rat : Ingestion : 2 Years : negative



according to the OSHA Hazard Communication Standard

Diflubenzuron Formulation

rsion	Revision Date: 01/25/2024	SDS Nt 108081	umber: 16-00006	Date of last issue: 11/22/2023 Date of first issue: 07/05/2022	
Speci Applic	cation Route sure time	: Rat : Inge : 104		robenzamide:	
IARC				nt at levels greater than or equal to 0.1% is confirmed human carcinogen by IARC.	
OSH/			product pres lated carcino	ent at levels greater than or equal to 0.1% ogens.	
NTP				nt at levels greater than or equal to 0.1% is d carcinogen by NTP.	
-	oductive toxicity assified based on av	ailable infor	mation.		
Comp	oonents:				
	ylene glycol: is on fertility	Spe App	t Type: Two- ccies: Mouse lication Rout sult: negative	te: Ingestion	
Effect	s on fetal developme	Spe App	: Test Type: Embryo-fetal development Species: Mouse Application Route: Ingestion Result: negative		
N-[[(4	-chlorophenyl)amir	olcarbonv	1-2.6-difluor	robenzamide:	
	s on fertility	: Tes Spe App		generation reproduction toxicity study	
Effect	s on fetal developme	Spe App	t Type: Emb cies: Rabbit lication Rou sult: negative	te: Ingestion	
	-single exposure assified based on av	ailable infor	mation.		
	-repeated exposure cause damage to org		spleen, Live	r) through prolonged or repeated exposure	
0					

Components:

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

Routes of exposure : Ingestion

according to the OSHA Hazard Communication Standard



Diflubenzuron Formulation

rsion	Revision Date: 01/25/2024		S Number: 08116-00006	Date of last issue: 11/22/2023 Date of first issue: 07/05/2022			
Target Organs Assessment				iver ce significant health effects in animals at co 0 to 100 mg/kg bw.			
Targe	es of exposure t Organs esment	:	 inhalation (dust/mist/fume) Blood, spleen, Liver Shown to produce significant health effects in animals at co centrations of >0.02 to 0.2 mg/l/6h/d. 				
Targe	es of exposure t Organs ssment	:	 Skin contact Blood, spleen, Liver Shown to produce significant health effects in animals at co centrations of >20 to 200 mg/kg bw. 				
Repe	ated dose toxicity						
<u>Comp</u>	oonents:						
Propy	/lene glycol:						
Speci			Rat, male				
NOAE			>= 1,700 mg/kg				
	ation Route sure time		Ingestion 2 y				
N-[[(4	-chlorophenyl)amin	o]carbo	onyl]-2,6-difluor	obenzamide:			
Speci			Rat				
LÒAE		:	81 mg/kg				
	ation Route		Ingestion				
Expos	sure time	:	28 Days				
Speci	es	:	Rabbit				
NOAE	EL	:	> 322 mg/kg				
	ation Route		Skin contact				
Expos	sure time	:	28 Days				
Speci	es	:	Rat				
NOAE	EL		> 0.1 mg/l				
	ation Route		inhalation (dust/	mist/fume)			
Expos	sure time	:	28 Days				
Aspir	ation toxicity						
-	assified based on ava	ailable ir	nformation.				
			-				

Ecotoxicity

Components:

Propylene glycol:

Toxicity to fish

: LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l Exposure time: 96 h



according to the OSHA Hazard Communication Standard

Diflubenzuron Formulation

Version 2.1	Revision Date: 01/25/2024		9S Number: 808116-00006	Date of last issue: 11/22/2023 Date of first issue: 07/05/2022
	kicity to daphnia and other uatic invertebrates	:	EC50 (Ceriodaphi Exposure time: 48	nia dubia (water flea)): 18,340 mg/l 8 h
	kicity to algae/aquatic nts	:	ErC50 (Skeletone Exposure time: 72 Method: OECD Te	
aqu	kicity to daphnia and other uatic invertebrates (Chron-		NOEC (Ceriodaph Exposure time: 7	nnia dubia (water flea)): 13,020 mg/l d
	oxicity) kicity to microorganisms	:	NOEC (Pseudom Exposure time: 18	onas putida): > 20,000 mg/l s h
	nylphenol, ethoxylated: kicity to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 0.1 - 1 mg/l 5 h on data from similar materials
	kicity to daphnia and other uatic invertebrates	:	Exposure time: 48	nia dubia (water flea)): > 0.1 - 1 mg/l 3 h on data from similar materials
To: pla	kicity to algae/aquatic nts	:	mg/l Exposure time: 72 Method: OECD To	
			Exposure time: 72 Method: OECD Te	
Toricit	kicity to fish (Chronic tox- y)	:	Exposure time: 10	tipes (Japanese medaka)): > 0.1 - 1 mg/l 0 d on data from similar materials
aqu	kicity to daphnia and other uatic invertebrates (Chron- oxicity)	:	mg/l Exposure time: 28	s bahia (opossum shrimp)): > 0.001 - 0.01 d on data from similar materials
N-[[(4-chlorophenyl)amino]	cark	onyl]-2,6-difluoro	benzamide:
-	kicity to fish	:	LC50 (Cyprinodor mg/l Exposure time: 96	n variegatus (sheepshead minnow)): > 0.13
	kicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.00026 mg/l s h



according to the OSHA Hazard Communication Standard

Diflubenzuron Formulation

Version 2.1	Revision Date: 01/25/2024	-	9S Number: 808116-00006	Date of last issue: 11/22/2023 Date of first issue: 07/05/2022
Toxicity plants	to algae/aquatic	:	Exposure time: 72	m capricornutum (green algae)): > 0.2 mg/l 2 h city at the limit of solubility.
Toxicity icity)	to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 35	es promelas (fathead minnow)): 0.1 mg/l 5 d
	to daphnia and other invertebrates (Chron- y)	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.00004 mg/l I d
Persiste	ence and degradabili	ty		
<u>Compo</u>	nents:			
	ene glycol: adability	:	Result: Readily bi Biodegradation: S Exposure time: 28 Method: OECD Te	98.3 %
Nonylp	henol, ethoxylated:			
	adability	:	Result: Not readily Remarks: Based o	y biodegradable. on data from similar materials
	hlorophenyl)amino]c adability	arb: :	oonyl]-2,6-difluoro Result: Not readily Method: OECD Te	y biodegradable.
Bioaccu	umulative potential			
<u>Compo</u>	nents:			
	ne glycol: coefficient: n- water	:	log Pow: -1.07 Method: Regulatio	on (EC) No. 440/2008, Annex, A.8
	henol, ethoxylated: a coefficient: n- water	:	log Pow: 4.48	
N-[[(4-c	hlorophenyl)amino]c	arb	onyl]-2,6-difluoro	benzamide:
Bioaccu	mulation	:		macrochirus (Bluegill sunfish) factor (BCF): 78 - 360
Partition octanol/	n coefficient: n- water	:	log Pow: < 4	
Mobility No data	/ in soil available			
	dverse effects available			
			13 / 17	



according to the OSHA Hazard Communication Standard

Diflubenzuron Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 11/22/2023
2.1	01/25/2024	10808116-00006	Date of first issue: 07/05/2022

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods Waste from residues : Dispose of in accordance with local regulations. Do not dispose of waste into sewer. Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(N-[[(4-chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (N-[[(4-chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(N-[[(4-chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide)
Class	•	9
Packing group	:	
Labels		9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s.



according to the OSHA Hazard Communication Standard

Diflubenzuron Formulation

Version 2.1	Revision Date: 01/25/2024	SDS Number: 10808116-00006	Date of last issue: 11/22/2023 Date of first issue: 07/05/2022
Class		: 9	phenyl)amino]carbonyl]-2,6-difluorobenzamide)
Packing group Labels ERG Code		: III : CLASS 9 : 171	
Marine pollutant		: yes(N-[[(4-chlo difluorobenzai	prophenyl)amino]carbonyl]-2,6- nide)
Remarks		: Above applies liters.	only to containers over 119 gallons or 450
		may be shippe	round under DOT is non-regulated; however it ed per the applicable hazard classification to -modal transport involving ICAO (IATA) or IMO.

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

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:		gan toxicity (single or repe age or eye irritation	ated exposure)
SARA 313	:	5	nponents are subject to re ARA Title III, Section 313:	oorting levels
		Nonylphenol, ethoxylated	9016-45-9	3 %
		N-[[(4- chloro- phe- nyl)amino]carbon yl]-2,6- difluoroben- zamide	35367-38-5	2.5 %
US State Regulations				

Pennsylvania Right To Know			
Water	7732-18-5		
Propylene glycol	57-55-6		
Nonylphenol, ethoxylated	9016-45-9		

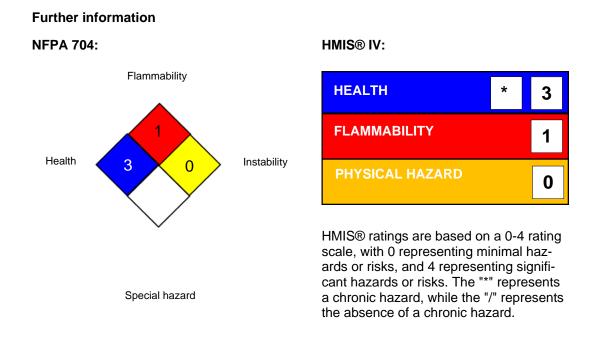


according to the OSHA Hazard Communication Standard

Diflubenzuron Formulation

Version 2.1	Revision Date: 01/25/2024	SDS Number: 10808116-00006	Date of last issue: 11/22/2023 Date of first issue: 07/05/2022
	Disodium hydroge	enorthophosphate	7558-79-4
Califo	ornia List of Hazardou Disodium hydroge	7558-79-4	
	ngredients of this pro	oduct are reported	in the following inventories:
AICS DSL		: not determine	-
IECS	C	: not determine	
1200	•	. not determine	

SECTION 16. OTHER INFORMATION



Full text of other abbreviations

US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
US WEEL / TWA	:	8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% response; EHS - 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 Organiza-



Diflubenzuron Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 11/22/2023
2.1	01/25/2024	10808116-00006	Date of first issue: 07/05/2022

tion; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

Sources of key data used to compile the Material Safety	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

: 01/25/2024

Revision Date

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.

US / Z8