according to the OSHA Hazard Communication Standard



CICLADE

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/30/2024	S00085765511	Date of first issue: 30.09.2024

SECTION 1. IDENTIFICATION

Product name Design code	:	CICLADE A23240B
Product Registration number	:	100-1690
Manufacturer or supplier's o	leta	ils
Company name of supplier Address		Syngenta Crop Protection, LLC Post Office Box 18300 Greensboro NC 27419 United States of America (USA)
Telephone Telefax	:	1 800 334 9481 1 336 632 2192
E-mail address Emergency telephone		sds.requests@syngenta.com 1 800 888 8372
Recommended use of the cl	hem	nical and restrictions on use
Recommended use	:	Fungicide
Restrictions on use	:	General Use Pesticide

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

GHS label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
thiamethoxam	153719-23-4	16.303
propane-1,2-diol	57-55-6	>= 5 - < 10
metalaxyl-M	70630-17-0	2.45
propane-1,2,3-triol	56-81-5	>= 1 - < 5
picarbutrazox	500207-04-5	0.815
sedaxane	874967-67-6	0.815
fludioxonil	131341-86-1	0.815
ethanamine, N,N-diethyl-	121-44-8	0 - < 0.1

according to the OSHA Hazard Communication Standard



CICLADE

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/30/2024	S00085765511	Date of first issue: 30.09.2024

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES General advice : Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment. If inhaled Take the victim into fresh air. : If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or poison control center immediately. In case of skin contact Take off all contaminated clothing immediately. : Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use. In case of eye contact Rinse immediately with plenty of water, also under the eyelids, : for at least 15 minutes. Remove contact lenses. Immediate medical attention is required. If swallowed If swallowed, seek medical advice immediately and show this : container or label. Do NOT induce vomiting. Most important symptoms : Nonspecific and effects, both acute and No symptoms known or expected.

Treat symptomatically. SECTION 5. FIRE-FIGHTING MEASURES

:

delayed

Notes to physician

Suitable extinguishing media	:	Extinguishing media - small fires Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Extinguishing media - large fires Alcohol-resistant foam or Water spray
Unsuitable extinguishing media	:	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards during fire fighting	:	As the product contains combustible organic ingredients, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Chlorine compounds Sulfur oxides Fluorine compounds

There is no specific antidote available.

according to the OSHA Hazard Communication Standard



CICLA	DE			
Version 1.0	Revision Date: 09/30/2024		0S Number: 0085765511	Date of last issue: - Date of first issue: 30.09.2024
Further information		:	Do not allow run-off from fire fighting to enter drains or wate courses. Cool closed containers exposed to fire with water spray.	
•	Special protective equipment for fire-fighters		Wear full protective clothing and self-contained breathing apparatus.	
SECTION	6. ACCIDENTAL RELE	ASI	E MEASURES	
tive e	Personal precautions, protec- tive equipment and emer- gency procedures		Refer to protective	e measures listed in sections 7 and 8.
Enviro	Environmental precautions		Do not flush into s	akage or spillage if safe to do so. surface water or sanitary sewer system. taminates rivers and lakes or drains inform

Methods and materials for containment and cleaning up	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.
--	---	--

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	 No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.
Conditions for safe storage	 No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
thiamethoxam	153719-23-4	TWA	5 mg/m3	Syngenta
propane-1,2-diol	57-55-6	TWA	10 mg/m3	US WEEL
metalaxyl-M	70630-17-0	TWA	5 mg/m3	Syngenta
propane-1,2,3-triol	56-81-5	TWA (mist,	5 mg/m3	OSHA Z-1
		respirable		
		fraction)		
		TWA (mist,	15 mg/m3	OSHA Z-1

Ingredients with workplace control parameters

according to the OSHA Hazard Communication Standard



CICLADE

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/30/2024	S00085765511	Date of first issue: 30.09.2024

I	I	total dust)	l	I
		TWA (Mist -	10 mg/m3	OSHA P0
		total dust)	Ũ	
		TWA (Mist -	5 mg/m3	OSHA P0
		respirable		
		fraction)		
sedaxane	874967-67-6	TWA	5 mg/m3	Syngenta
fludioxonil	131341-86-1	TWA	5 mg/m3	Syngenta
		TWA (Inhal-	1 mg/m3	ACGIH
		able particu-		
		late matter)		
ethanamine, N,N-diethyl-	121-44-8	TWA	0.5 ppm	ACGIH
		STEL	1 ppm	ACGIH
		TWA	25 ppm	OSHA Z-1
			100 mg/m3	
		STEL	15 ppm	OSHA P0
			60 mg/m3	
		TWA	10 ppm	OSHA P0
			40 mg/m3	

·-··· 3 ····-
THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.
Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.
t
No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things from the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of

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CICLADE

Version 1.0	Revision Date: 09/30/2024	SDS Number: S00085765511	Date of last issue: - Date of first issue: 30.09.2024					
	rotection and body protection	 degradation or chemical breakthrough. No special protective equipment required. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. 						
Protec	ctive measures	Remove and w Wear as approp Impervious clot The use of tech over the use of When selecting	sh contaminated clothing before re-use. oriate:					

syngenta.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	red
Odor	:	bitter almond
Odor Threshold	:	No data available
рН	:	5.22 Concentration: 1 %w/v
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Method: Seta closed cup, Equilibrium method does not flash
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Density	:	1.12 g/cm3
Solubility(ies) Water solubility	:	No data available
Solubility in other solvents	:	No data available

according to the OSHA Hazard Communication Standard

CICLADE

Version 1.0	Revision Date: 09/30/2024		S Number: 0085765511	Date of last issue: - Date of first issue: 30.09.2024
Partition coefficient: n- octanol/water Autoignition temperature Decomposition temperature			No data available 815 °F / 435 °C No data available	
Vise Vise	Viscosity Viscosity, dynamic Viscosity, kinematic Explosive properties		584 mPa.s (68 °F No data available Not explosive	
	ng properties e characteristics e size	:	The substance of No data available	r mixture is not classified as oxidizing.

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SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	None reasonably foreseeable. Stable under normal conditions. No dangerous reaction known under conditions of normal use.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	No decomposition if used as directed. None known. No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion Inhalation Skin contact Eye contact	
Acute toxicity	
Not classified due to lack of data	a.
Product:	
Acute oral toxicity :	LD50 (Rat, female): > 2,000 - < 5,000 mg/kg
Acute inhalation toxicity :	LC50 (Rat, male and female): > 5.16 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity

Components:

thiamethoxam:

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CICLA	DE		
Version 1.0	Revision Date: 09/30/2024	SDS Number: S00085765511	Date of last issue: - Date of first issue: 30.09.2024
Acute	oral toxicity	: LD50 (Rat, r	nale and female): 1,563 mg/kg
Acute inhalation toxicity		Exposure tin Test atmosp	nale and female): > 3.72 mg/l ne: 4 h here: dust/mist : The substance or mixture has no acute inhala-
Acute	dermal toxicity		nale and female): > 2,000 mg/kg : The substance or mixture has no acute dermal
propa	ne-1,2-diol:		
	oral toxicity	: LD50 (Rat):	> 20,000 mg/kg
		Assessment icity	The substance or mixture has no acute oral tox-
Acute	inhalation toxicity	Exposure tin	t): 317,042 mg/l ne: 2 h here: dust/mist
Acute	dermal toxicity		t): > 2,000 mg/kg : The substance or mixture has no acute dermal
metal	axyl-M:		
	oral toxicity	: LD50 (Rat, f	emale): 375 mg/kg
Acute	inhalation toxicity	Exposure tin Test atmosp Assessment tion toxicity	nale and female): > 2.29 mg/l ne: 4 h here: dust/mist : The substance or mixture has no acute inhala- ghest attainable concentration
Acute	dermal toxicity		nale and female): > 2,000 mg/kg : The substance or mixture has no acute dermal
propa	ine-1,2,3-triol:		
	oral toxicity		emale): > 4,000 mg/kg : The substance or mixture has no acute oral tox-
Acute	inhalation toxicity	Exposure tin Test atmosp	
Acute	dermal toxicity	: LD50 (Rat, f	emale): > 5,000 mg/kg

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CICLADE

Version 1.0	Revision Date: 09/30/2024		OS Number: 0085765511	Date of last issue: - Date of first issue: 30.09.2024		
picar	butrazox:					
-	e oral toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral tox icity			
Acute	Acute inhalation toxicity		LC50 (Rat, male and female): > 5.20 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala tion toxicity			
Acute	Acute dermal toxicity		LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity			
seda	xane:					
Acute	e oral toxicity	:	LD50 (Rat, fen	nale): 5,000 mg/kg		
Acute	Acute inhalation toxicity		LC50 (Rat, male and female): > 5.244 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity			
Acute	e dermal toxicity	:	LD50 (Rat, ma	le and female): > 5,000 mg/kg		
fludio	oxonil:					
	oral toxicity	:	LD50 (Rat, ma	le and female): > 5,000 mg/kg		
Acute	Acute inhalation toxicity		Exposure time Test atmosphe			
Acute	Acute dermal toxicity			le and female): > 2,000 mg/kg he substance or mixture has no acute dermal		
ethar	namine, N,N-diethyl-:					
	e oral toxicity	:	Assessment: T gestion.	he component/mixture is toxic after single in-		
Acute	inhalation toxicity	:	LC50 (Rat): 7.22 mg/l Exposure time: 4 h Test atmosphere: vapor			
Acute	e dermal toxicity	:	LD50 (Rat): 58	0 mg/kg		
ek:						

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

according to the OSHA Hazard Communication Standard



CICLADE

C	LADE		
rsior	n Revision Date: 09/30/2024	SDS Number:Date of last issue: -S00085765511Date of first issue: 30.09.2024	
Pr	roduct:		
	pecies	: Rabbit	
	esult	: No skin irritation	
<u> </u>	omnononto		
	omponents:		
	iamethoxam:		
	pecies esult	: Rabbit : No skin irritation	
170	esuit	. No skill initiation	
pr	opane-1,2-diol:		
Re	esult	: No skin irritation	
m	etalaxyl-M:		
Sp	pecies	: Rabbit	
Re	esult	: No skin irritation	
pr	opane-1,2,3-triol:		
	pecies	: Rabbit	
Re	esult	: No skin irritation	
pi	carbutrazox:		
	pecies	: Rabbit	
Re	esult	: No skin irritation	
se	edaxane:		
	pecies	: Rabbit	
R	esult	: No skin irritation	
flu	udioxonil:		
	pecies	: Rabbit	
Re	esult	: No skin irritation	
et	hanamine, N,N-diethyl-:		
	pecies	: Rabbit	
Re	esult	: Corrosive after 3 minutes or less of exposure	
Se	erious eye damage/eye ir	itation	
Ba	ased on available data, the	classification criteria are not met.	
	roduct:		
	oecies esult	: Rabbit : No eye irritation	
L.(Jourt		
<u>C</u> (omponents:		
	<u>omponents:</u> iamethoxam:		



	CLAI				
Ver 1.0	sion	Revision Date: 09/30/2024		DS Number:)0085765511	Date of last issue: - Date of first issue: 30.09.2024
	Result		:	No eye irritation	
	propar	ne-1,2-diol:			
	Result	ie-1,z-uloi.		No eye irritation	
	rtoourt		•		
	metala	xyl-M:			
	Specie	S	:	Rabbit	
	Result		:	Risk of serious da	amage to eyes.
	propar	ne-1,2,3-triol:			
	Specie	S	:	Rabbit	
	Result		:	No eye irritation	
	picarb	utrazox:			
	Specie		:	Rabbit	
	Result		:	No eye irritation	
	sedaxa	ne:			
	Specie		:	Rabbit	
	Result		:	No eye irritation	
	fludiox	onil:			
	Specie	s	:	Rabbit	
	Result		:	No eye irritation	
	ethana	mine, N,N-diethyl-:			
	Result		:	Risk of serious da	amage to eyes.
	Respir	atory or skin sensitiz	zatio	on	
	Skin se	ensitization			
	Based	on available data, the	clas	sification criteria ar	e not met.
	-	atory sensitization			
	Not cla	ssified due to lack of c	lata.		
	Produc				
	Test Ty Specie		:	Local lymph node Mouse	e assay (LLNA)
	Result	0	:	Does not cause s	kin sensitization.
	0				
	Compo	onents:			
		thoxam:			
	Specie	s	:	Guinea pig	

Species : Guine	ea pig
Result : Does	s not cause skin sensitization.



rsion	Revision Date: 09/30/2024		DS Number: 00085765511	Date of last issue: - Date of first issue: 30.09.2024
nrona	ane-1,2-diol:			
Resul		:	Does not cause	skin sensitization.
metal	laxyl-M:			
Speci		:	Guinea pig	
Resul	t	:	Does not cause	skin sensitization.
propa	ane-1,2,3-triol:			
Speci		:	Guinea pig	
Resul	t	:	Not a skin sens	itizer.
picar	butrazox:			
Speci		:	Guinea pig	
Resul	t	:	Not a skin sens	itizer.
sedax				
Test]	V 1	:		de assay (LLNA)
Speci Resul		:	Mouse Not a skin sens	itizer
i tesui	l.		NOL A SKIT SCIS	11261.
	oxonil:			
Species Result		:	Guinea pig	skin sensitization.
Not cl <u>Com</u> p	a cell mutagenicity lassified due to lack of ponents: nethoxam:	data.		
	cell mutagenicity - ssment	:	Animal testing o	lid not show any mutagenic effects.
• •	ane-1,2-diol:			
	cell mutagenicity - ssment	:	Animal testing o	lid not show any mutagenic effects.
meta	laxyl-M:			
	cell mutagenicity - ssment	:	Animal testing o	lid not show any mutagenic effects.
	ane-1,2,3-triol:		la cita ta ta "	
	cell mutagenicity - ssment	:	in vitro tests dic	not show mutagenic effects
picar	butrazox:			
	cell mutagenicity - ssment	:	Weight of evide cell mutagen.	nce does not support classification as a ger
sedax				
-	cell mutagenicity -	:	A minnel teating a	lid not show any mutagenic effects.



FICLA	Revision Date:	SE	S Number:	Date of last issue: -
0	09/30/2024		0085765511	Date of first issue: 30.09.2024
Asses	sment			
fludio	xonil:			
Germ Asses	cell mutagenicity - sment	:	Animal testing of	did not show any mutagenic effects.
	amine, N,N-diethyl-: cell mutagenicity - sment	:	In vitro tests dio	I not show mutagenic effects
	nogenicity assified due to lack of (data.		
Comp	onents:			
thiam	ethoxam:			
Carcin ment	ogenicity - Assess-	:	Weight of evide cinogen	nce does not support classification as a car
propa	ne-1,2-diol:			
	ogenicity - Assess-	:	No evidence of	carcinogenicity in animal studies.
	axyl-M: ogenicity - Assess-	:	No evidence of	carcinogenicity in animal studies.
propa	ne-1,2,3-triol:			
Carcin ment	ogenicity - Assess-	:	No evidence of	carcinogenicity in animal studies.
picarb	outrazox:			
Carcin ment	ogenicity - Assess-	:	Weight of evide cinogen	nce does not support classification as a car
sedax	ane:			
Carcin ment	ogenicity - Assess-	:	cinogen, At extr es of uterine, th rats) and liver to normal backgro treatment. Som conservative po ment-related in	ence does not support classification as a car emely high doses, numerically higher incide proid and liver tumors (male and/or female umors (male mice) were within the range of bund variation and thus considered unrelated e Regulatory Authorities have taken a more osition that these high-dose findings are treat rats and mice. The dose levels where these are not relevant to human exposure levels.
fludio	xonil:			
Carcin ment	ogenicity - Assess-	:	No evidence of	carcinogenicity in animal studies.
	ductive toxicity assified due to lack of a	data		



CICLA	ADE			
Version 1.0	Revision Date: 09/30/2024		DS Number: 00085765511	Date of last issue: - Date of first issue: 30.09.2024
Com	ponents:			
thian	nethoxam:			
	Reproductive toxicity - As- sessment		Weight of eviden reproductive toxi	ce does not support classification for city
prop	ane-1,2-diol:			
	oductive toxicity - As-	:		roduction, No effects on or via lactation d not show any effects on fetal development.
meta	laxyl-M:			
	oductive toxicity - As-	:	No toxicity to rep	roduction
prop	ane-1,2,3-triol:			
Repr sess	oductive toxicity - As- ment	:	No toxicity to rep	roduction, No effects on or via lactation
pica	butrazox:			
Repr sessi	oductive toxicity - As- ment	:	No toxicity to rep	roduction
seda	xane:			
Repr sess	oductive toxicity - As- ment	:	No toxicity to rep	roduction
	oxonil:			
Repr sess	oductive toxicity - As- ment	:	No toxicity to rep	roduction
etha	namine, N,N-diethyl-:			
Repr sess	oductive toxicity - As- ment	:	No toxicity to rep	roduction
	T-single exposure lassified due to lack of c	lata.		
<u>Com</u>	ponents:			
thian	nethoxam:			
	ssment	:	The substance o organ toxicant, s	r mixture is not classified as specific target ingle exposure.
prop	ane-1,2-diol:			
	ssment	:	The substance o organ toxicant, s	r mixture is not classified as specific target ingle exposure.
etha	namine, N,N-diethyl-:			
	ssment	:		r mixture is classified as specific target organ exposure, category 3 with respiratory tract

according to the OSHA Hazard Communication Standard



CICLADE

CIC	CLADE			
Versi 1.0	on Revision Date: 09/30/2024		S Number: 0085765511	Date of last issue: - Date of first issue: 30.09.2024
	STOT-repeated exposition of the second secon			
9	Components:			
t	thiamethoxam:			
1	Assessment	:		or mixture is not classified as specific target repeated exposure.
I	propane-1,2-diol:			
1	Assessment	:		or mixture is not classified as specific target repeated exposure.
r	metalaxyl-M:			
/	Assessment	:		or mixture is not classified as specific target single exposure.
	propane-1,2,3-triol:			
/	Assessment	:		or mixture is not classified as specific target repeated exposure.
9	sedaxane:			
1	Assessment	:		or mixture is not classified as specific target repeated exposure.
f	fludioxonil:			
1	Assessment	:		or mixture is not classified as specific target repeated exposure.
	Aspiration toxicity			
	Not classified due to lac	k of data.		
9	Components:			
I	propane-1,2-diol:			
١	No aspiration toxicity cla	assification	ו	
SECT	TION 12. ECOLOGICAI		IATION	
E	Ecotoxicity			
<u>(</u>	Components:			

thiamethoxam: Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h

Toxicity to daphnia and other:EC50 (Daphnia magna (Water flea)): > 100 mg/laquatic invertebratesExposure time: 48 h

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CICLADE

ersion .0	Revision Date: 09/30/2024		08 Number: 0085765511	Date of last issue: - Date of first issue: 30.09.2024
Toxic plants	ity to algae/aquatic	:	ErC50 (Raphidoc mg/l Exposure time: 96	elis subcapitata (freshwater green alga)): 3 ð h
			NOEC (Raphidoc mg/l End point: Growth Exposure time: 96	
			ErC50 (Lemna gil Exposure time: 7	oba (gibbous duckweed)): 6.5 mg/l d
			EC10 (Lemna gib End point: Growth Exposure time: 7	
Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Pimephal Exposure time: 33	es promelas (fathead minnow)): 0.165 mg/ 3 d
	ity to daphnia and other ic invertebrates (Chron- city)	:	EC10 (Daphnia m Exposure time: 2	nagna (Water flea)): 0.711 mg/l 1 d
fludio	oxonil:			
Toxic	ity to fish	:	LC50 (Oncorhyno Exposure time: 96	hus mykiss (rainbow trout)): 0.23 mg/l ስ h
			LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 0.7 mg/l 3 h
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.4 mg/l 3 h
			EC50 (Americam) Exposure time: 96	
Toxic plants	ity to algae/aquatic	:	ErC50 (Raphidoc 0.259 mg/l Exposure time: 96	elis subcapitata (freshwater green alga)): S h
			EC10 (Raphidoce 0.077 mg/l End point: Growth Exposure time: 96	
			ErC50 (Skeletone Exposure time: 96	ema costatum (marine diatom)): 0.43 mg/l S h
			NOEC (Skeletone End point: Growth Exposure time: 96	
Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Oncorhyn Exposure time: 28	chus mykiss (rainbow trout)): 0.04 mg/l 3 d



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Vers		JC Revision Date:	5	S Number:	Date of last issue: -	
1.0		09/30/2024		0085765511	Date of first issue: 30.09.2024	
				EC10 (Pimephale Exposure time: 1	s promelas (fathead minnow)): 0.018 mg/l l6 d	
		to daphnia and other invertebrates (Chron-		NOEC (Daphnia r Exposure time: 2′	nagna (Water flea)): 0.035 mg/l 1 d	
		ty)		NOEC (Americamysis): 0.018 mg/l Exposure time: 28 d		
	Toxicity	to microorganisms	:	EC50 (activated s Exposure time: 3	ludge): > 1,000 mg/l h	
	ethana	mine, N,N-diethyl-:				
	Toxicity	-	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout))։ 36 mg/l ծ h	
	Toxicity plants	to algae/aquatic	:	ErC50 (Raphidoc mg/l Exposure time: 72	elis subcapitata (freshwater green alga)): 9.8 2 h	
	Persist	ence and degradabil	ity			
	Compo	onents:				
		thoxam: radability	:	Result: Not readil	y biodegradable.	
	Stability	/ in water	:	Degradation half l Remarks: Produc	ife: 11 d t is not persistent.	
	propag	e-1,2-diol:				
	• •	radability	:	Result: Readily bi	odegradable.	
	metala	xyl-M:				
	Biodeg	radability	:	Result: Not readil	y biodegradable.	
	Stability	/ in water	:	Degradation half Remarks: Produc	ife: 22.4 - 47.5 d t is not persistent.	
	sedaxa	ine:				
		radability	:	Result: Not readil	y biodegradable.	
	Stability	/ in water	:	Degradation half l Remarks: Persiste		
	fludiox	onil:				
		radability	:	Result: Not readil	y biodegradable.	
	Stability	/ in water	:	Degradation half Remarks: Persiste		



CICLA ersion	Revision Date:	SE	OS Number:	Date of last issue: -
.0	09/30/2024		00085765511	Date of first issue: 30.09.2024
	amine, N,N-diethyl-: gradability	:	Result: Readily	/ biodegradable.
Bioac	cumulative potential			
Comp	oonents:			
	ethoxam: cumulation	:	Remarks: Low	bioaccumulation potential.
	on coefficient: n- ol/water	:	log Pow: -0.13	(77 °F / 25 °C)
metal	axyl-M:			
Bioac	cumulation	:	Remarks: Low	bioaccumulation potential.
	on coefficient: n- ol/water	:	log Pow: 1.71 (77 °F / 25 °C)
•	outrazox: cumulation	:	Remarks: Does	s not bioaccumulate.
sedax Bioac	cane: cumulation	:	Remarks: Does	s not bioaccumulate.
	on coefficient: n- ol/water	:	log Pow: 3.3 (7	7 °F / 25 °C)
fludio	xonil:			
Bioac	cumulation	:	Remarks: Does	s not bioaccumulate.
	on coefficient: n- ol/water	:	log Pow: 4.12 (77 °F / 25 °C)
Mobil	ity in soil			
Comp	oonents:			
thiam	ethoxam:			
menta	oution among environ- Il compartments	:	Remarks: Mod	erately mobile in soils
Stabili	ity in soil	:		e: 51 d sipation: 50 % (DT50) luct is not persistent.
metal	axyl-M:			
	oution among environ- al compartments	:	Remarks: Meta in soil dependii	alaxyl has a range from low to very high mobi ng on soil type.
Stabil	ity in soil	:		e: < 50 d sipation: 50 % (DT50) uct is not persistent.
sedax	ane:			
Distrib	oution among environ-	:	Remarks: Low	mobility in soil.

according to the OSHA Hazard Communication Standard



CICLA	DE			
Version 1.0	Revision Date: 09/30/2024		OS Number: 00085765511	Date of last issue: - Date of first issue: 30.09.2024
	al compartments lity in soil	:		: 83 d ipation: 50 % (DT50) ict is not persistent.
Distri ment	oxonil: bution among environ- al compartments lity in soil	:		
Othe	r adverse effects			
Com	ponents:			
Resu	nethoxam: Its of PBT and vPvB ssment	:		t persistent, bioaccumulative, and toxic (PBT). t very persistent and very bioaccumulative
Resu	laxyI-M: Its of PBT and vPvB ssment	:		t persistent, bioaccumulative, and toxic (PBT). t very persistent and very bioaccumulative
Resu	xane: Its of PBT and vPvB ssment	:		t persistent, bioaccumulative, and toxic (PBT). t very persistent and very bioaccumulative
Resu	oxonil: Its of PBT and vPvB ssment	:		t persistent, bioaccumulative, and toxic (PBT). t very persistent and very bioaccumulative
Resu	n amine, N,N-diethyl-: Its of PBT and vPvB ssment	:		t persistent, bioaccumulative, and toxic (PBT). t very persistent and very bioaccumulative

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods RCRA - Resource	
Conservation and Recovery Authorization Act	
Waste from residues	 Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or

according to the OSHA Hazard Communication Standard

CICLA	DE		
Version 1.0	Revision Date: 09/30/2024	SDS Number: S00085765511	Date of last issue: - Date of first issue: 30.09.2024
Conta	minated packaging	local regulatior Empty remaini Triple rinse co Empty contain handling site fo	ng contents.

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SECTION 14. TRANSPORT INFORMATION

UNRTDG UN number Proper shipping name	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (THIAMETHOXAM, FLUDIOXONIL)
Class Packing group Labels Environmentally hazardous Remarks	9 III 9 yes This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a
IATA-DGR UN/ID No.	net mass of 5 kg or less for solids. UN 3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (THIAMETHOXAM, FLUDIOXONIL)
Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft) Environmentally hazardous Remarks	9 III Miscellaneous 964 964 yes This product can be subject to exemptions when packaged in
	single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.
IMDG-Code	101.0000
UN number Proper shipping name	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (THIAMETHOXAM, FLUDIOXONIL)
Class Packing group Labels EmS Code Marine pollutant Remarks	9 III 9 F-A, S-F yes This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per

according to the OSHA Hazard Communication Standard



CICLADE

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/30/2024	S00085765511	Date of first issue: 30.09.2024

single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

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

Not regulated as a dangerous good Remarks : Shi

Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-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

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label: Caution

Harmful if swallowed.

Harmful if absorbed through skin.

Avoid contact with skin, eyes or clothing.

Remove and wash contaminated clothing before re-use.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

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	: No SARA Hazards	
SARA 313	: This material does not contain any chemical components w known CAS numbers that exceed the threshold (De Minimis reporting levels established by SARA Title III, Section 313.	

SECTION 16. OTHER INFORMATION

Further information

according to the OSHA Hazard Communication Standard



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Full text of other abbreviations

ACGIH OSHA P0		USA. ACGIH Threshold Limit Values (TLV) USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
Syngenta	:	Syngenta Occupational Exposure Limits
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
OSHA P0 / TWA	:	8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
OSHA Z-1 / TWA	:	8-hour time weighted average
Syngenta / TWA	:	Time weighted average
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% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Oth-

according to the OSHA Hazard Communication Standard



CICLADE

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/30/2024	S00085765511	Date of first issue: 30.09.2024

erwise 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

Revision Date : 09/30/2024

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / Z8