

Version	Revision Date:	SDS Number:	This version replaces all previous versions.
1.1	02/10/2022	S00042170144	

SECTION 1. IDENTIFICATION

Product name	:	GOLDEN HARVEST PREFERRED ST				
Design code.	:	A23240C				
Product Registration number	:	100-1690				
Manufacturer or supplier's c	leta	ails				
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 chemical 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

Not a hazardous substance or mixture.

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
2-Naphthalenecarboxamide, 3-	135-61-5	>= 0.1 - < 1
hydroxy-N-(2-methylphenyl)-		
Triethylamine	121-44-8	0 - < 0.1



Version Revision Date: 1.1 02/10/2022

SDS Number: S00042170144

This version replaces all previous versions.

Actual concentration is withheld as a trade secret

CTION 4. FIRST AID MEASUR	RES	
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 eyelide 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 and effects, both acute and delayed	:	Nonspecific No symptoms known or expected.
Notes to physician	:	There is no specific antidote available. Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

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.
Further information	:	Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for fire-fighters	:	Cool closed containers exposed to fire with water spray. Wear full protective clothing and self-contained breathing apparatus.



Version 1.1	Revision Date: 02/10/2022	SDS Number: S00042170144	This version replaces all previous versions.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
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

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
thiamethoxam	153719-23-4	TWA	3 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, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1
		TWA (Mist - total dust)	10 mg/m3	OSHA P0
		TWA (Mist - respirable fraction)	5 mg/m3	OSHA P0
sedaxane	874967-67-6	TWA	5 mg/m3	Syngenta
fludioxonil	131341-86-1	TWA	5 mg/m3	Syngenta



Version	
1.1	

Revision Date: 02/10/2022

SDS Number: S00042170144

This version replaces all previous versions.

		TWA (Inhalable particulate matter)	1 mg/m3	ACGIH
Triethylamine	121-44-8	TWA	0.5 ppm	ACGIH
		STEL	1 ppm	ACGIH
		TWA	25 ppm 100 mg/m3	OSHA Z-1
		STEL	15 ppm 60 mg/m3	OSHA P0
		TWA	10 ppm 40 mg/m3	OSHA P0
Engineering measures	CONTROLS FOR THE M PACKAGIN APPLICATI CONSULT Containmer protection n The extent of actual risks Maintain air standards.	S/PERSONAL PI IANUFACTURE G OF THE PRO ONS AND/OR C THE PRODUCT at and/or segrega beasure if exposion of these protection in use. concentrations I	MENDATIONS FOI ROTECTION ARE , FORMULATION A DUCT. FOR COMM IN-FARM APPLICA LABEL. ation is the most rel ure cannot be elimi on measures depen below occupational itional occupational	INTENDED AND AERCIAL TIONS iable technical nated. ads on the exposure
Personal protective equipm Respiratory protection		l respiratory prot	ective equipment n	ormally
			ncentrations above ate certified respira	
Hand protection				
Remarks Eye protection Skin and body protection Protective measures	 No special p No special p Select skin requirement The use of the second seco	ts. technical measu	nent required. nent required. tion based on the p res should always h	
	When selec		tective equipment. otective equipment, <i>v</i> ice.	seek

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	beige brown
Odor	:	bitter almond
Odor Threshold	:	No data available



GOLDEN HARVESTVersionRevision Date:1.102/10/2022	PREFERRED STSDS Number:This version replaces all previous versions.S00042170144	_
рН	: 5.22 Concentration: 1 % w/v	
Melting point/range	: No data available	
Boiling point/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	: 1.124 g/cm3 (68 °F / 20 °C)	
Solubility(ies) Water solubility	: No data available	
Solubility in other solvents	: No data available	
Partition coefficient: n- octanol/water	: No data available	
Autoignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: 584 mPa.s (68 °F / 20 °C)	
Viscosity, kinematic	: No data available	
Explosive properties	: Not explosive	
Oxidizing properties	: The substance or mixture is not classified as oxidizing.	
Particle size	: No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous	:	No dangerous reaction known under conditions of normal use.



SDS Number: S00042170144 This version replaces all previous versions.

reactions	
Conditions to avoid	: No decomposition if used as directed.
Incompatible materials Hazardous decomposition products	 None known. No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely route Ingestion Inhalation Skin contact Eye contact Acute toxicity	es of	exposure
Product:		
Acute oral toxicity	:	LD50 (Rat, female): > 2,000 - < 5,000 mg/kg Remarks: Based on data from similar materials
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 inhalation toxicity Remarks: Based on data from similar materials
Components:		
thiamethoxam:		
Acute oral toxicity	:	LD50 (Rat, male and female): 1,563 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 3.72 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
metalaxyl-M:		
Acute oral toxicity	:	LD50 (Rat, female): 375 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 2.29 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Highest attainable concentration
Acute dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal



GOLD	EN HARVEST	' Pl	REFERRED ST
Version 1.1	Revision Date: 02/10/2022		DS Number: This version replaces all previous versions.
			toxicity
picar	rbutrazox:		
-	e oral toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity
Acute	e 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 inhalation toxicity
Acute	e 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, female): 5,000 mg/kg
Acute	e 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 inhalation toxicity
Acute	e dermal toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
fludi	oxonil:		
Acute	e oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat, male and female): > 2.6 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity
Acute	e dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
Triet	hylamine:		
	e oral toxicity	:	LD50 (Rat): 730 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): 7.22 mg/l Exposure time: 4 h Test atmosphere: vapor
Acute	e dermal toxicity	:	LD50 (Rat): 580 mg/kg

COLDEN HADVEST DDEEEDDED ST



COLDEN UNDVERT DECEDDED ST

ion	Revision Date: 02/10/2022	SDS Number: This version replaces all previous ve S00042170144	ersi
Skin c	orrosion/irritation		
Produ	ct:		
Specie		: Rabbit	
Result		: No skin irritation	
Compo	onents:		
thiame	ethoxam:		
Specie	S	: Rabbit	
Result		: No skin irritation	
metala	xyl-M:		
Specie	S	: Rabbit	
Result		: No skin irritation	
-	utrazox:		
Specie	S	: Rabbit	
Result		: No skin irritation	
sedaxa			
Specie	S	: Rabbit	
Result		: No skin irritation	
fludio>	conil:		
Specie	S	: Rabbit	
Result		: No skin irritation	
Triethy	/lamine:		
Specie	S	: Rabbit	
Result		: Corrosive after 3 minutes or less of exposure	
Seriou	is eye damage/eye	irritation	
Produ			
Specie	S	: Rabbit	
Result		: No eye irritation	
Comp	onents:		
thiame	ethoxam:		
Specie	S	: Rabbit	
Result		: No eye irritation	
metala	xyl-M:		
Specie	S	: Rabbit	
Result		: Risk of serious damage to eyes.	



sion	Revision Date: 02/10/2022	SDS Number: This version replaces all previous version S00042170144
picarl	butrazox:	
Speci		: Rabbit
Resul		: No eye irritation
sedax	kane:	
Speci	es	: Rabbit
Resul	t	: No eye irritation
fludio	oxonil:	
Speci		: Rabbit
Resul	t	: No eye irritation
Trieth	ylamine:	
Resul	t	: Risk of serious damage to eyes.
Resp	iratory or skin sens	itization
<u>Produ</u>		
Test T		: Local lymph node assay (LLNA)
Speci Resul		MouseDid not cause sensitization on laboratory animals.
Rema		: Based on data from similar materials
	oonents: ethoxam:	
Speci Resul		Guinea pigDid not cause sensitization on laboratory animals.
i tesui	L .	
	axyl-M:	
Speci Resul		: Guinea pig
Resul	L	: Did not cause sensitization on laboratory animals.
•	butrazox:	
Speci Resul		: Guinea pig : Not a skin sensitizer.
Resul	ι	. INUL A SAILI SELISILLEI.
sedax		
Test T		: Local lymph node assay (LLNA)
Speci Resul		: Mouse : Not a skin sensitizer.
IVE201	ı	. ואטנ מ סתוון סבווסונולבן.
	oxonil:	
Speci		: Guinea pig
Resul	τ	: Did not cause sensitization on laboratory animals.
2-Nap	ohthalenecarboxam	ide, 3-hydroxy-N-(2-methylphenyl)-:
	t	: The product is a skin sensitizer, sub-category 1A.



Version Revision Date: 1.1 02/10/2022 SDS Number: S00042170144

This version replaces all previous versions.

Germ cell mutagenicity	
Components:	
thiamethoxam: Germ cell mutagenicity - Assessment	: Animal testing did not show any mutagenic effects.
metalaxyl-M: Germ cell mutagenicity - Assessment	: Animal testing did not show any mutagenic effects.
picarbutrazox: Germ cell mutagenicity - Assessment	: Weight of evidence does not support classification as a germ cell mutagen.
sedaxane: Germ cell mutagenicity - Assessment	: Animal testing did not show any mutagenic effects.
fludioxonil: Germ cell mutagenicity - Assessment	: Animal testing did not show any mutagenic effects.
Triethylamine: Germ cell mutagenicity - Assessment	: In vitro tests did not show mutagenic effects
Carcinogenicity	
Components:	
thiamethoxam: Carcinogenicity - Assessment	: Weight of evidence does not support classification as a carcinogen
metalaxyl-M: Carcinogenicity - Assessment	: No evidence of carcinogenicity in animal studies.
picarbutrazox: Carcinogenicity - Assessment	: Weight of evidence does not support classification as a carcinogen
sedaxane:	
Carcinogenicity - Assessment	: Weight of evidence does not support classification as a carcinogen,At extremely high doses, numerically higher incidences of uterine, thyroid and liver tumors (male and/or female rats) and liver tumors (male mice) were within the range of normal background variation and thus considered unrelated to treatment. Some Regulatory Authorities have taken a more conservative position that these high-dose findings are treatment-related in rats and mice. The dose levels where these findings occur are not relevant to human



rsion	Revisior 02/10/20	Date:	SD	REFERRE DS Number: 0042170144	This version replaces all previous version
				exposure levels	
fludio	xonil:				
	nogenicity ·		:	No evidence of	carcinogenicity in animal studies.
Asses IARC					nt at levels greater than or equal to 0.1% is confirmed human carcinogen by IARC.
OSHA				this product pres	ent at levels greater than or equal to 0.1% is ogens.
NTP					nt at levels greater than or equal to 0.1% is d carcinogen by NTP.
Repro	oductive to	oxicity			
<u>Comp</u>	onents:				
thiam	ethoxam:				
	ductive to	cicity -	:	Weight of evide reproductive tox	nce does not support classification for icity
metal	axyl-M:				
Repro	ductive to	kicity -	:	No toxicity to re	production
Repro	outrazox: ductive to sment	cicity -	:	No toxicity to re	production
sedax	ane:				
•	ductive to	kicity -	:	No toxicity to re	production
	xonil:				
•	ductive to	cicity -	:	No toxicity to re	production
	ylamine:				
	ductive to	cicity -	:	No toxicity to re	production
STOT	-single ex	posure			
<u>Comp</u>	onents:				
thiam	ethoxam:				
Asses	sment		:		or mixture is not classified as specific target single exposure.
Trieth	ylamine:				
	sment		:		or mixture is classified as specific target orga exposure, category 3 with respiratory tract



GOLDEN HARVESTPREFERREDSTVersionRevision Date:SDS Number:This version repla

Version 1.1	Revision Date: 02/10/2022		DS Number: 00042170144	This version replaces all previous versions.
			irritation.	
STOT	-repeated exposure			
Com	ponents:			
thiam	nethoxam:			
Asses	ssment	:		r mixture is not classified as specific target epeated exposure.
meta	laxyl-M:			
Asses	ssment	:	The substance of organ toxicant, si	r mixture is not classified as specific target ngle exposure.
seda	xane:			
Asses	ssment	:		r mixture is not classified as specific target peated exposure.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

thiamethoxam:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h
		EC50 (Cloeon sp.): 0.014 mg/l Exposure time: 48 h
		EC50 (Chironomus riparius (harlequin fly)): 0.035 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 81.8 mg/l Exposure time: 72 h
		NOEC (Raphidocelis subcapitata (freshwater green alga)): 81.8 mg/l End point: Growth rate Exposure time: 72 h
Toxicity to fish (Chronic toxicity)	:	NOEC (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 28 d Test Type: flow-through test
		NOEC (Oncorhynchus mykiss (rainbow trout)): > 20 mg/l Exposure time: 88 d Test Type: Early-life Stage



sion	Revision Date: 02/10/2022		0042170144	This version replaces all previous version
aquatio	invertebrates	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 100 mg/l 1 d
(Cnron	ic toxicity)		NOEC (Chironon Exposure time: 3	nus riparius (Midge larvae)): 0.01 mg/l 0 d
Toxicit	y to microorganisms	:	EC50 (activated Exposure time: 3	sludge): > 100 mg/l h
metala	xvI-M:			
	y to fish	:	LC50 (Oncorhyn Exposure time: 9	chus mykiss (rainbow trout)): > 100 mg/l 6 h
			LC50 (Cyprinus o Exposure time: 9	carpio (Carp)): > 100 mg/l 6 h
	y to daphnia and other invertebrates	:	EC50 (Daphnia r Exposure time: 4	nagna (Water flea)): > 100 mg/l 8 h
Toxicity plants	y to algae/aquatic	:	ErC50 (Raphidoo 271 mg/l Exposure time: 9	elis subcapitata (freshwater green alga)): 6 h
			NOEC (Raphidoo 19.7 mg/l End point: Growt Exposure time: 9	
Toxicity toxicity	y to fish (Chronic)	:	NOEC (Oncorhy Exposure time: 2	nchus mykiss (rainbow trout)): 50 mg/l 8 d
aquatio	y to daphnia and other invertebrates ic toxicity)	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 25 mg/l 1 d
	y to microorganisms	:	EC50 (activated Exposure time: 3	sludge): > 100 mg/l h
picarb	utrazox:			
Toxicity	y to fish	:	LC50 (Oncorhyn Exposure time: 9	chus mykiss (rainbow trout)): > 0.29 mg/l 6 h
	y to daphnia and other invertebrates	:	EC50 (Daphnia r Exposure time: 4	nagna (Water flea)): > 0.28 mg/l 8 h
Toxicit <u>y</u> plants	y to algae/aquatic	:	ErC50 (green alg Exposure time: 7	
			NOEC (green alg End point: Growt Exposure time: 7	h rate
Toxicity toxicity	y to fish (Chronic)	:	NOEC (Cyprinod mg/l	on variegatus (sheepshead minnow)): 0.14



GOLD Version 1.1	EN HARVEST Revision Date: 02/10/2022	SE	REFERRED OS Number: 10042170144	ST This version replaces all previous versions.
			Exposure time: 28	d
aquati	ty to daphnia and other c invertebrates nic toxicity)	:	NOEC (Daphnia n Exposure time: 28	nagna (Water flea)): 0.27 mg/l d
sedax	ane:			
Toxici	ty to fish	:	LC50 (Cyprinus ca Exposure time: 96	arpio (Carp)): 0.62 mg/l h
			LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 0.98 mg/l h
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 6.10 mg/l h
Toxici plants	ty to algae/aquatic	:	ErC50 (Raphidoce mg/l Exposure time: 96	elis subcapitata (freshwater green alga)): 3 h
			NOEC (Raphidoce mg/l End point: Growth Exposure time: 96	
			ErC50 (Lemna gib Exposure time: 7 d	ba (gibbous duckweed)): 6.5 mg/l d
			NOEC (Lemna gib End point: Growth Exposure time: 7 d	
Toxicit toxicity	ty to fish (Chronic y)	:	NOEC (Pimephale Exposure time: 33	es promelas (fathead minnow)): 0.165 mg/l d
aquati	ty to daphnia and other c invertebrates nic toxicity)	:	NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 0.82 mg/l d
fludio	xonil:			
Toxici	ty to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0.23 mg/l h
			LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 0.7 mg/l h
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.4 mg/l h
			EC50 (Americamy Exposure time: 96	
Toxici plants	ty to algae/aquatic	:	ErC50 (Raphidoce 0.259 mg/l Exposure time: 96	elis subcapitata (freshwater green alga)): h



rsion	Revision Date: 02/10/2022		DS Number: This version replaces all previous versio 00042170144
			EC10 (Raphidocelis subcapitata (freshwater green alga)): 0.077 mg/l End point: Growth rate Exposure time: 96 h
			ErC50 (Skeletonema costatum (marine diatom)): 0.43 mg/l Exposure time: 96 h
			NOEC (Skeletonema costatum (marine diatom)): 0.14 mg/l End point: Growth rate Exposure time: 96 h
Toxicit toxicity	ty to fish (Chronic y)	:	NOEC (Oncorhynchus mykiss (rainbow trout)): 0.04 mg/l Exposure time: 28 d
			NOEC (Pimephales promelas (fathead minnow)): 0.018 mg Exposure time: 116 d
aquati	ty to daphnia and other c invertebrates nic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.035 mg/l Exposure time: 21 d
(Chio			NOEC (Americamysis): 0.018 mg/l Exposure time: 28 d
Toxici	ty to microorganisms	:	EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h
2-Nap	hthalenecarboxamide	, 3-ł	hydroxy-N-(2-methylphenyl)-:
	xicology Assessment ic aquatic toxicity	:	Toxic to aquatic life with long lasting effects.
Trieth	ylamine:		
Toxici	ty to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 36 mg/l Exposure time: 96 h
Toxici plants	ty to algae/aquatic	:	ErC50 (Raphidocelis subcapitata (freshwater green alga)): mg/l Exposure time: 72 h
Persis	stence and degradabili	ity	
<u>Comp</u>	onents:		
	ethoxam: gradability	:	Result: Not readily biodegradable.
Stabili	ty in water	:	Degradation half life: 11 d Remarks: Product is not persistent.
metal	axyl-M:		
Biode	gradability	:	Result: Not readily biodegradable.



GO Versio	LDEN HARVEST			ST This version replaces all previous versions.
1.1	02/10/2022		0042170144	
S	tability in water	:	Degradation half lif Remarks: Product	
S	edaxane:			
В	iodegradability	:	Result: Not readily	biodegradable.
S	tability in water	:	Degradation half lif Remarks: Persister	
fl	udioxonil:			
В	iodegradability	:	Result: Not readily	biodegradable.
S	tability in water	:	Degradation half lif Remarks: Persister	
	riethylamine: iodegradability	:	Result: Readily bio	degradable.
В	ioaccumulative potential			
<u>C</u>	components:			
tł	niamethoxam:			
В	ioaccumulation	:	Remarks: Low bioa	accumulation potential.
	artition coefficient: n- ctanol/water	:	log Pow: -0.13 (77	°F / 25 °C)
	netalaxyl-M:			
В	ioaccumulation	:	Remarks: Low bioa	accumulation potential.
	artition coefficient: n- ctanol/water	:	log Pow: 1.71 (77 °	°F / 25 °C)
•	icarbutrazox: ioaccumulation	:	Remarks: Does no	t bioaccumulate.
S	edaxane:			
В	ioaccumulation	:	Remarks: Does no	t bioaccumulate.
	artition coefficient: n- ctanol/water	:	log Pow: 3.3 (77 °F	F / 25 °C)
fl	udioxonil:			
В	ioaccumulation	:	Remarks: Does no	t bioaccumulate.
	artition coefficient: n- ctanol/water	:	log Pow: 4.12 (77 °	°F / 25 °C)



rsion Revision Date: 02/10/2022	SDS Number: This version replaces all previous versions S00042170144
Mobility in soil	
Components:	
thiamethoxam: Distribution among environmental compartments Stability in soil	 Remarks: Moderately mobile in soils Dissipation time: 51 d Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.
metalaxyl-M:	Remarks. Froduct is not persistent.
Distribution among environmental compartments	: Remarks: Metalaxyl has a range from low to very high mobilit in soil depending on soil type.
Stability in soil	 Dissipation time: < 50 d Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.
sedaxane:	
Distribution among	: Remarks: Low to medium mobility in soil.
environmental compartments Stability in soil	: Dissipation time: 83 d Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.
fludioxonil:	
Distribution among environmental compartments Stability in soil	 Remarks: immobile Dissipation time: 14 d Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.
Other adverse effects	
Components:	
thiamethoxam:	
Results of PBT and vPvB assessment	: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).
metalaxyl-M:	
Results of PBT and vPvB assessment	: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).
sedaxane:	
Results of PBT and vPvB assessment	: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).



Version 1.1	Revision Date: 02/10/2022	SDS Number: S00042170144	This version replaces all previous versions.
fludio	oxonil:		
	Its of PBT and vPvB ssment	bioaccumulatin	e is not considered to be persistent, g and toxic (PBT). This substance is not be very persistent and very bioaccumulating
Triet	hylamine:		
	Its of PBT and vPvB ssment	bioaccumulatin	e is not considered to be persistent, g and toxic (PBT). This substance is not be very persistent and very bioaccumulating

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
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 incineration. If recycling is not practicable, dispose of in compliance with local regulations. 	n
Contaminated packaging	 Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. 	

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (THIAMETHOXAM AND FLUDIOXONIL)
Class	:	9
Packing group	:	
Labels	:	9
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (THIAMETHOXAM AND FLUDIOXONIL)
Class	:	9
Packing group	:	
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passenger aircraft)	:	964
Environmentally hazardous	:	yes



Version	Revision Date:	SDS Number:	This version replaces all previous versions.
1.1	02/10/2022	S00042170144	
UN nu	-Code umber r shipping name	N.O.S.	ITALLY HAZARDOUS SUBSTANCE, LIQUID,

(THIAMETHOXAM AND FLUDIOXONIL) Class : 9 111 Packing group : Labels : 9 F-A, S-F EmS Code : 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

Not regulated as a dangerous good Remarks : SI

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.

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
xylene mixture of isomers	1330-20-7	100	100 (F003)
ethyl acetate	141-78-6	100	100 (F003)

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



ersion 1	Revision Date: 02/10/2022	SDS Number: S00042170144	This version replaces all previous versions
SARA	A 313	known CAS nu	loes not contain any chemical components with umbers that exceed the threshold (De Minimis) s established by SARA Title III, Section 313.
The i	ngredients of this p	roduct are reported in	n the following inventories:
The i I TSCA	•	•	
		: On or in comp	n the following inventories:

SECTION 16. OTHER INFORMATION



NFPA 704:



HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
OSHA PO	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
		8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
OSHA Z-1 / TWA	:	8-hour time weighted average
US WEEL / TWA	:	8-hr TWA



Version	Revision Date:
1.1	02/10/2022

SDS Number: S00042170144

This version replaces all previous versions.

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 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 Cooperation 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

: 02/10/2022

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