

Version	Revision Date:	SDS Number:	Date of last issue: 23.02.2023
1.1	30.09.2023	11171615-00002	Date of first issue: 23.02.2023

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Amitraz (12.5%) EC Liquid Formulation

Manufacturer or supplier's	deta	ails	
Company name of supplier		MSD	

Recommended use of the chemical and restrictions on use					
E-mail address	:	EHSDATASTEWARD@msd.com			
Emergency telephone	:	1-908-423-6000			
Telephone	:	908-740-4000			
		Rahway, New Jersey U.S.A. 07065			
Address	:	126 E. Lincoln Avenue			
oompany name of ouppilor	•	ine B			

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Acute toxicity (Oral)	:	Category 4
Serious eye damage/eye irritation	:	Category 1
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure	:	Category 1 (Kidney, Heart, Gastrointestinal tract, Lymph nodes)
Specific target organ toxicity - repeated exposure	:	Category 2 (Liver, Central nervous system)
Aspiration hazard	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	 H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H318 Causes serious eye damage. H336 May cause drowsiness or dizziness. H360F May damage fertility. H372 Causes damage to organs (Kidney, Heart, Gastrointestinal tract, Lymph nodes) through prolonged or repeated expo-



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			e damage to organs (Liver, Central nervous prolonged or repeated exposure.
Preca	utionary Statements	P202 Do not har and understood P260 Do not bre P264 Wash skin	ecial instructions before use. ndle until all safety precautions have been rea athe mist or vapors. thoroughly after handling.
		P271 Use only c	outdoors or in a well-ventilated area. ective gloves/ protective clothing/ eye protection
		CENTER or doc P304 + P340 + I and keep at rest POISON CENTE P305 + P351 + I water for severa and easy to do. CENTER or doc	P312 IF INHALED: Remove victim to fresh air in a position comfortable for breathing. Call a ER or doctor/ physician if you feel unwell. P338 + P310 IF IN EYES: Rinse cautiously wi I minutes. Remove contact lenses, if present Continue rinsing. Immediately call a POISON tor/ physician. exposed or concerned: Get medical advice/
		Storage: P405 Store lock	ed up.
		Disposal: P501 Dispose o posal plant.	f contents/ container to an approved waste dis
	hazards ated exposure may ca	use skin dryness or cra	cking

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Hydrocarbons, C10, aromatics, <1% naphtha-	64742-94-5	>= 50 -< 70
lene		
Nonylphenol, ethoxylated	9016-45-9	>= 20 -< 30
Amitraz (ISO)	33089-61-1	>= 10 -< 20
Bis(2,6-diisopropylphenyl)carbodiimide	2162-74-5	>= 1 -< 5

SECTION 4. FIRST AID MEASURES



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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. 		
lf inha	lled	:	: If inhaled, remove to fresh air.		
In case of skin contact		:	Get medical attention. In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.		
In case of eye contact		:	Thoroughly clean shoes before reuse. 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 If vomiting occurs Call a physician of Rinse mouth thor	NOT induce vomiting. s have person lean forward. or poison control center immediately. roughly with water. ing by mouth to an unconscious person.	
	important symptoms ffects, both acute and ed	:	Harmful if swallow May be fatal if sw Causes serious e May cause drows May damage fert Causes damage exposure.	wed. vallowed and enters airways. eye damage. siness or dizziness.	
Prote	ction of first-aiders	 First Aid responders should pay attention to self-protectio and use the recommended personal protective equipmen when the potential for exposure exists (see section 8). 		mmended personal protective equipment	
Notes to physician		:		ically and supportively.	

Suitable extinguishing media Unsuitable extinguishing media		Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical None known.
Specific hazards during fire	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx)
Specific extinguishing meth- 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.
Special protective equipment	:	In the event of fire, wear self-contained breathing apparatus.



Amitraz (12.5%) EC Liquid Formulation

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for fire-	fighters		Use personal pro	ective equipment.		
SECTION 6	. ACCIDENTAL RELE	AS	E MEASURES			
tive equ	al precautions, protec- uipment and emer- procedures	:	Follow safe hand	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).		
Environmental precautions		:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.			
Methods and materials for containment and cleaning up		:	Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked mater can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and item employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.			

SECTION 7. HANDLING AND STORAGE

Technical measures Local/Total ventilation	 See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. If sufficient ventilation is unavailable, use with local exhaust
Advice on safe handling	 ventilation. Do not get on skin or clothing. Do not breathe mist or vapors. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling.
Hygiene measures	 Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.
	When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of



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Conditions for safe storage		 engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls. Keep in properly labeled containers. Store locked up. 			
Materi	als to avoid	Store in accordar Do not store with Strong oxidizing	vell-ventilated place. Ince with the particular national regulations. The following product types: agents stances and mixtures		

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Hydrocarbons, C10, aromatics, <1% naphthalene	64742-94-5	VLE-PPT (Mist)	5 mg/m ³	NOM-010- STPS-2014
		TWA (Inhalable particulate matter)	5 mg/m³	ACGIH
Amitraz (ISO)	33089-61-1	TWA	10 µg/m3 (OEB 3)	Internal
		Wipe limit	1250 µg/100 cm 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 equipment		
Respiratory protection	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.	
Filter type Hand protection	Combined particulates and organic vapor type	
Material	Chemical-resistant gloves	

Remarks : Consider double gloving.



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Eye protection		If the work enviro mists or aerosols Wear a faceshield	ses with side shields or goggles. nment or activity involves dusty conditions, , wear the appropriate goggles. d or other full face protection if there is a t contact to the face with dusts, mists, or
Skin and body protection		task being perfore disposable suits)	arments should be used based upon the med (e.g., sleevelets, apron, gauntlets, to avoid exposed skin surfaces. degowning techniques to remove potentially

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	clear
		yellow
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
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies)		



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	Water solubility	: No data av	ailable
	tition coefficient: n- anol/water	: Not applica	ble
	oignition temperature	: No data av	ailable
Dee	composition temperature	: No data av	ailable
	cosity Viscosity, kinematic	: No data av	ailable
Exp	olosive properties	: Not explos	ve
Oxi	dizing properties	: The substa	nce or mixture is not classified as oxidizing.
Мо	ecular weight	: No data av	ailable
Par	ticle size	: Not applica	ble

SECTION 10. STABILITY AND REACTIVITY

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

SECTION 11. TOXICOLOGICAL INFORMATION

=(TION 11. TOXICOLOGICAL INFO	DRMATION
	Information on likely routes of	exposure
	Inhalation Skin contact	
	Ingestion	
	Eye contact	
	Acute toxicity	
	Harmful if swallowed.	
	Product:	
	Acute oral toxicity :	Acute toxicity estimate: 1,491 mg/kg Method: Calculation method
	Components:	
	Hydrocarbons, C10, aromatics,	<1% naphthalene:
	Acute oral toxicity :	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 420 Remarks: Based on data from similar materials



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Acute	inhalation toxicity	 LC50 (Rat): > 4.778 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Remarks: Based on data from similar materials 	
Acute	dermal toxicity	 LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute de toxicity Remarks: Based on data from similar materials 	erma
Nony	Iphenol, ethoxylated	:	
•	oral toxicity	: LD50 (Rat): 500 - 2,000 mg/kg	
Amitr	az (ISO):		
	oral toxicity	: LD50 (Rat): > 400 mg/kg	
		LD50 (Mouse): > 1,085 mg/kg	
		LD50 (Guinea pig): > 400 mg/kg	
Acute	inhalation toxicity	: Remarks: No data available	
Acute	dermal toxicity	: LD50 (Rat): > 1,600 mg/kg	
Bis(2	,6-diisopropylpheny)carbodiimide:	
•	oral toxicity	: LD50 (Rat): > 300 - 2,000 mg/kg Method: OECD Test Guideline 423	
Acute	dermal toxicity	 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute de toxicity 	erma
	corrosion/irritation assified based on ava	ilable information.	
<u>Comp</u>	oonents:		
Hydro	ocarbons, C10, arom	atics, <1% naphthalene:	
Asses	sment	: Repeated exposure may cause skin dryness or cracking	g.
Nony	Iphenol, ethoxylated	:	
Speci		: Rabbit	
Metho Resul		: OECD Test Guideline 404 : No skin irritation	
A *4	(100)		
Amitr Speci	az (ISO): es	: Rabbit	
0000			



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Resul	t	: No skin irritation	
Bis(2	,6-diisopropylpheny	/I)carbodiimide:	
Speci	es	: Rabbit	
Metho		: OECD Test Guideline 404	
Resul	t	: No skin irritation	
	us eye damage/eye es serious eye damag		
	oonents:	J O.	
Hydro	ocarbons, C10, aron	natics, <1% naphthalene:	
Speci		Rabbit	
Resul		: No eye irritation	
Rema	ırks	: Based on data from similar materials	
Nony	Iphenol, ethoxylated	d:	
Speci		: Rabbit	
Resul		: Irreversible effects on the eye	
Metho	0	: OECD Test Guideline 405	
	az (ISO):		
Speci Resul		: Rabbit : No eye irritation	
Bis(2	,6-diisopropylpheny	/l)carbodiimide:	
Speci		: Rabbit	
Resul		: No eye irritation	
Metho	bd	: OECD Test Guideline 405	
Respi	iratory or skin sensi	itization	
Skin	sensitization		
Skin	-		
Skin s Not cl	sensitization	ailable information.	
Skin s Not cl Respi	sensitization assified based on ava	ailable information.	
Skin s Not cl Respi Not cl	sensitization assified based on avaint	ailable information.	
Skin s Not cl Respi Not cl <u>Comp</u>	sensitization assified based on avainatory sensitization assified based on avaination conents: conents:	ailable information. ailable information. natics, <1% naphthalene:	
Skin s Not cl Respi Not cl <u>Comp</u> Hydro Test T	sensitization assified based on avainatory sensitization assified based on avainatory conents: conents: fype	ailable information. ailable information. natics, <1% naphthalene: : Maximization Test	
Skin s Not cl Respi Not cl <u>Comp</u> Hydro Test T Route	sensitization assified based on avaination iratory sensitization assified based on avaination conents: conents: corbons, C10, aron Type as of exposure	ailable information. ailable information. natics, <1% naphthalene: : Maximization Test : Skin contact	
Skin s Not cl Respi Not cl <u>Comp</u> Hydro Test T Route Speci	sensitization assified based on avaination assified based on avaination based on avaination assified based on avaination assified ba	ailable information. ailable information. natics, <1% naphthalene: : Maximization Test : Skin contact : Guinea pig	
Skin s Not cl Respi Not cl <u>Comp</u> Hydro Test T Route	sensitization assified based on avaination assified based on avaination as	ailable information. ailable information. natics, <1% naphthalene: : Maximization Test : Skin contact	
Skin s Not cl Respi Not cl Comp Hydro Test 1 Route Speci Resul Rema	sensitization assified based on avaination assified based on avaination assified based on avaination assified based on avaination conents:	ailable information. ailable information. natics, <1% naphthalene: : Maximization Test : Skin contact : Guinea pig : negative : Based on data from similar materials	
Skin s Not cl Respi Not cl Comp Hydro Test 1 Route Speci Resul Rema	sensitization assified based on avaination assified based on avaination assified based on avaination conents: c	ailable information. ailable information. natics, <1% naphthalene: : Maximization Test : Skin contact : Guinea pig : negative : Based on data from similar materials	



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Speci Resul Rema	t	 Guinea pig negative Based on data from similar materials
Amitr	az (ISO):	
Test 1	. ,	: Maximization Test
	es of exposure	: Dermal
Speci Resul		: Guinea pig : Not a skin sensitizer.
Bis(2	,6-diisopropylphen	l)carbodiimide:
Test 7		: Maximization Test
	es of exposure	: Skin contact
Speci Metho		: Guinea pig : OECD Test Guideline 406
Resul		: negative
	a cell mutagenicity assified based on av	ailable information.
Comp	oonents:	
Hydro	ocarbons, C10, aro	natics, <1% naphthalene:
Geno	toxicity in vitro	 Test Type: In vitro sister chromatid exchange assay in mar malian cells Result: negative Remarks: Based on data from similar materials
Geno	toxicity in vivo	: Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Rat Application Route: inhalation (vapor) Result: negative Remarks: Based on data from similar materials
News		4.
-	Iphenol, ethoxylate toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials
Amitr	az (ISO):	
Geno	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: In vitro mammalian cell gene mutation test Result: negative
		Test Type: Chromosome aberration test in vitro Result: negative
		Test Type: DNA damage and repair, unscheduled DNA syr thesis in mammalian cells (in vitro)
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ersion .1	Revision Date: 30.09.2023		9S Number: 171615-00002	Date of last issue: 23.02.2023 Date of first issue: 23.02.2023
			Result: negative	
Bis(2	,6-diisopropylphenyl)c	arb	odiimide:	
•	toxicity in vitro	:	Test Type: Bacte	rial reverse mutation assay (AMES) est Guideline 471
				nosome aberration test in vitro Test Guideline 473
				o mammalian cell gene mutation test est Guideline 476
Carci	inogenicity			
	lassified based on availa	able	information.	
Com	ponents:			
Amitr	raz (ISO):			
	cation Route sure time EL	:	Rat Oral 2 Years > 10.18 mg/kg bo negative	ody weight
LOAE Resu	sure time EL	::	Mouse 2 Years 2.3 mg/kg body v positive Liver, Stomach	veight
	oductive toxicity damage fertility.			
	ponents:			
Hydro	ocarbons, C10, aromat	ics.	<1% naphthalen	e:
	ts on fertility	:	Test Type: Three Species: Rat Application Route Result: negative	e-generation reproduction toxicity study e: inhalation (vapor) on data from similar materials
Effect	ts on fetal development	:	Species: Rat Application Route Result: negative	yo-fetal development e: Ingestion on data from similar materials
Amitı	raz (ISO):			
	ts on fertility	:	Test Type: Three	e-generation reproduction toxicity study
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				e: Oral > 4.8 mg/kg body weight cant adverse effects were reported
Effect	s on fetal development	:	Species: Rat Application Route Developmental T	yo-fetal development e: Oral oxicity: NOAEL: 3 mg/kg body weight nificant adverse effects were reported
			Species: Rabbit Application Route Developmental T	yo-fetal development e: Oral oxicity: NOAEL: 5 mg/kg body weight n fetal development.
Bis(2,	6-diisopropylphenyl)c	arb	odiimide:	
Effect	s on fertility	:	test Species: Rat Application Route	oduction/Developmental toxicity screening e: Ingestion Fest Guideline 421
			Test Type: Fertili Species: Rat Application Route Result: positive	
Effect	s on fetal development	:	test Species: Rat Application Route Method: OECD 1	Test Guideline 421
			Result: equivoca	

Components:

Hydrocarbons, C10, aromatics, <1% naphthalene:

Assessment	:	May cause drowsiness or dizziness.
Remarks	:	Based on data from similar materials

STOT-repeated exposure

Causes damage to organs (Kidney, Heart, Gastrointestinal tract, Lymph nodes) through prolonged or repeated exposure.



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May c	ause damage to org	ans (Liver, Central nerv	ous system) through prolonged or repeated
posur	e.		
Comp	<u>oonents:</u>		
Amitr	az (ISO):		
Targe	t Organs	: Liver, Central r	ervous system
Asses	ssment	: May cause dar exposure.	nage to organs through prolonged or repeat
Bis(2	,6-diisopropylphen	/l)carbodiimide:	
•	es of exposure	: Ingestion	
	t Organs ssment		Gastrointestinal tract, Lymph nodes e to organs through prolonged or repeated
Repe	ated dose toxicity		
-	oonents:		
Hydro	ocarbons, C10, aror	natics, <1% naphthale	ne:
Speci		: Rat	
NOAE	EL	: 300 mg/kg	
	cation Route	: Ingestion	
	sure time	: 13 Weeks	Z 1 1 1 1 1
Rema	Irks	: Based on data	from similar materials
Amitr	az (ISO):		
Speci	es	: Mouse	
NOAE		: 3 mg/kg	
	ation Route	: Oral	
	sure time	: 90 Days	
Targe	t Organs	: Liver	
Speci	es	: Dog	
NOAE	EL	: 0.25 mg/kg	
	cation Route	: Oral	
	sure time	: 90 Days	
Targe	t Organs	: Central nervou	s system, Liver
Bis(2	,6-diisopropylphen	/l)carbodiimide:	
Speci	es	: Rat	
NOAE		: 4 mg/kg	
LOAE		: 16 mg/kg	
	ation Route	: Ingestion	
	sure time	: 28 Days	
Metho	Da	: OECD Test Gu	Ideline 407

May be fatal if swallowed and enters airways.





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Com	iponents:						
The	Hydrocarbons, C10, aromatics, <1% naphthalene: The substance or mixture is known to cause human aspiration toxicity hazards or has to be re- garded as if it causes a human aspiration toxicity hazard. Experience with human exposure						
Exp							
Com	ponents:						
	traz (ISO): stion	:	Target Organs: C	Central nervous system			
SECTION	N 12. ECOLOGICAL INF	OR	MATION				
Eco	toxicity						
	ponents:						
	rocarbons, C10, aroma	tics,	<1% naphthalen	9:			
Toxi	city to fish	:	Exposure time: 9 Test substance: 1 Method: OECD T	thus mykiss (rainbow trout)): 2 - 5 mg/l 6 h Water Accommodated Fraction Test Guideline 203 on data from similar materials			
	city to daphnia and other atic invertebrates	r :	Exposure time: 4 Test substance: Method: OECD T	nagna (Water flea)): 3 - 10 mg/l 8 h Water Accommodated Fraction Test Guideline 202 on data from similar materials			
Toxi plan	city to algae/aquatic ts	:	mg/l Exposure time: 7 Test substance: \ Method: OECD T	chneriella subcapitata (green algae)): > 1 - 3 2 h Water Accommodated Fraction Test Guideline 201 on data from similar materials			
Non	ylphenol, ethoxylated:						
	city to fish	:	Exposure time: 9	es promelas (fathead minnow)): > 0.1 - 1 mg/l 6 h on data from similar materials			
	city to daphnia and other atic invertebrates	• :	Exposure time: 4	nnia dubia (water flea)): > 0.1 - 1 mg/l 8 h on data from similar materials			
Toxi plan	city to algae/aquatic ts	:	mg/l Exposure time: 7 Method: OECD T	rum capricornutum (green algae)): > 1 - 10 2 h Test Guideline 201 on data from similar materials			



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				Exposure time: 72 Method: OECD Te	
	oxicity city)	to fish (Chronic tox-	:	Exposure time: 10	atipes (Japanese medaka)): > 0.1 - 1 mg/l 00 d on data from similar materials
a		invertebrates (Chron-	:	mg/l Exposure time: 28	is bahia (opossum shrimp)): > 0.001 - 0.01 3 d on data from similar materials
А	mitraz	z (ISO):			
		to fish	:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 0.45 mg/l 5 h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 0.035 mg/l 3 h
	oxicity lants	to algae/aquatic	:	NOEC (Pseudokin mg/l Exposure time: 91	rchneriella subcapitata (green algae)): 0.04 1 h
	oxicity ity)	to fish (Chronic tox-	:	NOEC (Pimephale mg/l Exposure time: 32	es promelas (fathead minnow)): 0.00148 2 d
a		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.0011 mg/l 1 d
В	is(2,6∙	-diisopropylphenyl)c	arb	odiimide:	
T	oxicity	to fish	:	Exposure time: 96 Method: OECD Te	
		to daphnia and other invertebrates	:	Exposure time: 48 Method: OECD Te	
	oxicity lants	to algae/aquatic	:	Exposure time: 72 Method: OECD Te	
				NOEC (Desmode Exposure time: 72 Method: OECD Te	
Т	oxicity	to microorganisms	:	EC50: > 1,000 mg	g/I



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			Exposure time: 3 Method: OECD T	h Test Guideline 209
Persis	stence and degradabi	lity		
Comp	oonents:	-		
Hydro	ocarbons, C10, aroma	tics,	<1% naphthalen	e:
Biode	gradability	:	Biodegradation: Exposure time: 2	
Nony	Iphenol, ethoxylated:			
Biode	gradability	:	Result: Not readi Remarks: Based	ly biodegradable. on data from similar materials
Bis(2,	,6-diisopropylphenyl)o	carb	odiimide:	
• ·	gradability	:	Result: Not readi Biodegradation: Exposure time: 2	
Bioac	cumulative potential			
Comp	oonents:			
Partiti	Iphenol, ethoxylated: on coefficient: n- ol/water	:	log Pow: 4.48	
Amitr	az (ISO):			
Bioac	cumulation	:		s macrochirus (Bluegill sunfish) factor (BCF): 1,333
	on coefficient: n- ol/water	:	log Pow: 5.5	
Bis(2,	,6-diisopropylphenyl)@	carb	odiimide:	
Bioac	cumulation	:	Bioconcentration	factor (BCF): > 500
	on coefficient: n- ol/water	:	log Pow: > 6.2	
Mobil	ity in soil			
<u>Comp</u>	oonents:			
Distrib	az (ISO): oution among environ- al compartments	:	log Koc: 3.3	
	adverse effects ta available			





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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal	methods
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Waste from residues	:	Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
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.
Class		(amitraz (ISO)) 9
Packing group	÷	
Labels	÷	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Amitraz (ISO))
Class	:	9
Packing group	:	 Missellan sous
Labels Packing instruction (cargo	÷	Miscellaneous 964
aircraft)	•	304
Packing instruction (passen-	:	964
ger aircraft)		
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	•	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class		(Amitraz (ISO)) 9
Packing group	:	9
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	sup	plied.
Domestic regulation		
NOM-002-SCT		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.



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Class Packin Labels	g group	:	(Amitraz (ISO)) 9 III 9	
Special precautions for u		er		
				r informational purposes only, and solely ial as it is described within this Safety Data

Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

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

Federal Law for the control of chemical precursors, : Not applicable essential chemical products and machinery for producing capsules, tablets and pills.

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

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

SECTION 16. OTHER INFORMATION

Revision Date Date format	:	30.09.2023 dd.mm.yyyy
Full text of other abbreviation	ns	
ACGIH NOM-010-STPS-2014		USA. ACGIH Threshold Limit Values (TLV) Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting the Work Environment - Identification, Assessment and Con- trol - Appendix 1 Occupational Exposure Limits
ACGIH / TWA NOM-010-STPS-2014 / VLE- PPT		8-hour, time-weighted average Time weighted average limit value

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International



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Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature: SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative: WHMIS - Workplace Hazardous Materials Information System

Sources of key data used to compile the Material Safety Data Sheet

: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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