according to the Globally Harmonized System



### Amitraz (12.5%) Formulation

Versior 5.1	n Revision Date: 30.09.2023		S Number: 29320-00016	Date of last issue: 04.04.2023 Date of first issue: 11.07.2017
1. PRO	DUCT AND COMPANY ID	ENT	IFICATION	
Pr	oduct name	:	Amitraz (12.5%	) Formulation
Ма	anufacturer or supplier's o	detai	ils	
Co	ompany	:	MSD	
Ac	Address			f Pune Nagar Road - India 412 207
Te	lephone	:	+1-908-740-40	00
Er	nergency telephone numbe	r:	+1-908-423-60	00

### E-mail address : EHSDATASTEWARD@msd.com

### Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

#### 2. HAZARDS IDENTIFICATION

### Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

#### Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

GHS Classification Acute toxicity (Oral)	:	Category 4
Serious eye damage/eye irri- tation	:	Category 2A
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure	:	Category 2 (Liver, Central nervous system, Kidney, Heart, Gas- trointestinal tract, Lymph nodes)
Aspiration hazard	:	Category 1
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1

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	<b>label elements</b> rd pictograms		!
Signa	al word	: Danger	$\mathbf{v}$
Haza	rd statements	H319 Causes H336 May cau H360F May da H373 May cau system, Kidne through prolor	if swallowed. fatal if swallowed and enters airways. serious eye irritation. use drowsiness or dizziness. amage fertility. use damage to organs (Liver, Central nervous by, Heart, Gastrointestinal tract, Lymph nodes) nged or repeated exposure. tic to aquatic life with long lasting effects.
Preca	autionary statements	P260 Do not b P264 Wash sl P270 Do not e P271 Use only P273 Avoid re	read and follow all safety instructions before use preathe mist or vapours. kin thoroughly after handling. eat, drink or smoke when using this product. y outdoors or in a well-ventilated area. elease to the environment. otective gloves/ protective clothing/ eye protec- ection.
		cal help imme P304 + P340 and keep com unwell. P305 + P351 for several min easy to do. Co P318 IF expos P331 Do NOT	<ul> <li>+ P330 IF SWALLOWED: Get emergency medi- diately. Rinse mouth.</li> <li>+ P319 IF INHALED: Remove person to fresh a fortable for breathing. Get medical help if you fee + P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and ontinue rinsing.</li> <li>sed or concerned, get medical advice.</li> <li>induce vomiting.</li> <li>If eye irritation persists: Get medical help. spillage.</li> </ul>
		Storage: P405 Store lo	
		<b>Disposal:</b> P501 Dispose disposal plant	of contents/ container to an approved waste

### Other hazards which do not result in classification

Repeated exposure may cause skin dryness or cracking.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS



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Substance / Mixture

: Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Hydrocarbons, C10, aromatics, <1% naphthalene	64742-94-5	>= 50 - < 70
4-Nonylphenol, branched, ethoxylated	127087-87-0	>= 10 - < 20
amitraz (ISO)	33089-61-1	>= 10 - < 20
Bis(2,6-diisopropylphenyl)carbodiimide	2162-74-5	>= 1 - < 2.5

### Alternative CAS Numbers for some regions

Chemical name	Alternative CAS Number(s)
4-Nonylphenol, branched, ethoxylated	68412-54-4

#### 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	
If swallowed	:	If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control centre immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	
Protection of first-aiders	:	
Notes to physician	:	Treat symptomatically and supportively.

### **5. FIREFIGHTING MEASURES**

Suitable extinguishing media :

Water spray Alcohol-resistant foam

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Unsuitable extinguishing media Specific hazards during fire- fighting Hazardous combustion prod- ucts Specific extinguishing meth- ods		: : :	Carbon dioxide (CO2) Dry chemical None known. Exposure to combustion products may be a hazard to health. Carbon oxides Nitrogen oxides (NOx) 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. In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.				
6. ACCIDE	NTAL RELEASE MEAS	SUF	RES				
tive eq	Personal precautions, protec- tive equipment and emer- gency procedures		Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).				
Enviro	Environmental precautions		Prevent spreadin barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages			
	Methods and materials for containment and cleaning up		For large spills, p ment to keep mat be pumped, store Clean up remaining bent. Local or national posal of this mate employed in the of mine which regula Sections 13 and	t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can a recovered material in appropriate container. Ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.			

### 7. HANDLING AND STORAGE

Technical measures		See Engineering measures under EXPOSURE
Local/Total ventilation	:	CONTROLS/PERSONAL PROTECTION section. If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe mist or vapours.
		Do not swallow.

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Cond	litions for safe storage	Handle in acco practice, based sessment Keep containe Do not eat, drin Take care to p environment.	yes. oughly after handling. ordance with good industrial hygiene and safety d on the results of the workplace exposure as- r tightly closed. hk or smoke when using this product. revent spills, waste and minimize release to the dy labelled containers.
		Store locked u Keep tightly clo Keep in a cool Store in accord	p. osed. , well-ventilated place. dance with the particular national regulations.
Mate	rials to avoid	: Do not store w Strong oxidizin	ith the following product types: g agents

### 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	TWA (Mist)	5 mg/m3	IN OEL
		STEL (Mist)	10 mg/m3	IN OEL
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
amitraz (ISO)	33089-61-1	TWA	10 µg/m3 (OEB 3)	Internal
		Wipe limit	1250 µg/100 cm <sup>2</sup>	Internal

Engineering measures :	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face contain- ment devices). Minimize open handling.
Personal protective equipment	

Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec-
Filter type	:	ommended guidelines, use respiratory protection. Combined particulates and organic vapour type
Hand protection Material	:	Chemical-resistant gloves

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	marks rotection		gloving. sses with side shields or goggles. onment or activity involves dusty conditions,
		mists or aerosols Wear a faceshie	s, wear the appropriate goggles. Id or other full face protection if there is a ct contact to the face with dusts, mists, or
Skin and body protection		being performed suits) to avoid ex	garments should be used based upon the task (e.g., sleevelets, apron, gauntlets, disposable kposed skin surfaces. degowning techniques to remove potentially
Hygiei	ne measures	: If exposure to ch flushing systems place. When using do r Wash contamina The effective op engineering con appropriate dego	nemical is likely during typical use, provide eye and safety showers close to the working not eat, drink or smoke. ated clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, e monitoring, medical surveillance and the

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	yellow
Odour	:	characteristic, aromatic, hydrocarbon-like
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	Not applicable
Initial boiling point and boiling range	:	No data available
Flash point	:	106 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower	:	No data available

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fla	lamma	bility limit			
V	/apour	pressure	:	No data available	9
R	Relative	e vapour density	:	No data available	9
R	Relative	e density	:	No data available	9
D	Density	,	:	No data available	9
S	Solubili Wat	ty(ies) er solubility	:	No data available	9
	Partitio	n coefficient: n-	:	No data available	9
-		nition temperature	:	No data available	9
D	Decom	position temperature	:	No data available	9
V	/iscosi Visc	ty cosity, kinematic	:	No data available	9
E	Explosi	ve properties	:	Not explosive	
		ng properties	:		r mixture is not classified as oxidizing.
N	Nolecu	lar weight	:	No data available	9
Р	Particle	size	:	Not applicable	

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

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	Oxidizing agents

### **11. TOXICOLOGICAL INFORMATION**

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

#### Acute toxicity

Harmful if swallowed.

#### Product:

according to the Globally Harmonized System



# Amitraz (12.5%) Formulation

ersion .1	Revision Date: 30.09.2023	SDS Number: 1829320-000	
Acute	e oral toxicity		city estimate: 1,505 mg/kg alculation method
<u>Com</u>	ponents:		
Hydr	ocarbons, C10, arom	atics, <1% naph	thalene:
Acute	e oral toxicity	Method: C	): > 5,000 mg/kg ECD Test Guideline 420 Based on data from similar materials
Acute	e inhalation toxicity	Exposure Test atmo Method: C	): > 4.778 mg/l time: 4 h sphere: dust/mist DECD Test Guideline 403 Based on data from similar materials
Acute	e dermal toxicity	Method: C Assessme toxicity	obit): > 2,000 mg/kg ECD Test Guideline 402 ent: The substance or mixture has no acute dermal Based on data from similar materials
4-No	nylphenol, branched	, ethoxylated:	
Acute	e oral toxicity		): > 300 - 2,000 mg/kg Based on data from similar materials
Acute	e dermal toxicity	: LD50 (Ral	obit): > 2,000 mg/kg
amitr	raz (ISO):		
	e oral toxicity	: LD50 (Rat	): > 400 mg/kg
		LD50 (Mo	use): > 1,085 mg/kg
		LD50 (Gu	nea pig): > 400 mg/kg
Acute	e inhalation toxicity	: Remarks:	No data available
Acute	e dermal toxicity	: LD50 (Rat	): > 1,600 mg/kg
Bis(2	2,6-diisopropylpheny	l)carbodiimide:	
•	e oral toxicity	: LD50 (Rat	): > 300 - 2,000 mg/kg ECD Test Guideline 423
Acute	e dermal toxicity	Method: C	): > 2,000 mg/kg ECD Test Guideline 402 ent: The substance or mixture has no acute dermal

### Skin corrosion/irritation

Not classified based on available information.

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Com	oonents:		
		nation (19/ nonhthola	
-	ssment	natics, <1% naphthale : Repeated expo	sure may cause skin dryness or cracking
Asset	Sinen	. Repeated expo	sure may cause skin dryness of clacking
amitr	az (ISO):		
Speci		: Rabbit	
Resul	lt	: No skin irritation	n
Bis(2	,6-diisopropylpheny	/l)carbodiimide:	
Speci		: Rabbit	
Metho Resul		: OECD Test Gu : No skin irritation	
	us eye damage/eye		
	es serious eye irritation		
<u>Comp</u>	oonents:		
-		natics, <1% naphthale	ne:
Speci Resul		: Rabbit : No eye irritatior	
Rema			from similar materials
4-Nor	nylphenol, branched	l, ethoxylated:	
Speci		: Rabbit	
Resul	lt	: Irritation to eye	s, reversing within 21 days
amitr	az (ISO):		
Speci		: Rabbit	
Resul	lt	: No eye irritatior	1
Bis(2	,6-diisopropylpheny	/l)carbodiimide:	
Speci		: Rabbit	
Metho Resul		: OECD Test Gu : No eye irritatior	
Posn	iratory or skin sens		
-	sensitisation	insanon	
-	lassified based on av	ailable information.	
Resp	iratory sensitisatior	ì	
-	lassified based on av		
<b>C</b>	oonents:		

: Maximisation Test

Test Type

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Spe	posure routes ecies sult narks	: Skin contact : Guinea pig : negative : Based on data	from similar materials
4-N	onylphenol, branched	, ethoxylated:	
Exp Res	t Type posure routes sult narks	: Skin contact : negative	insult patch test (HRIPT) from similar materials
Tes Exp	i <b>traz (ISO):</b> t Type posure routes ecies sult	: Maximisation T : Dermal : Guinea pig : Not a skin sen:	
Bis	(2,6-diisopropylpheny	l)carbodiimide:	
Exp Spe	t Type posure routes ecies hod sult	: Maximisation : Skin contact : Guinea pig : OECD Test Gu : negative	
	m cell mutagenicity classified based on ava	ailable information.	
<u>Cor</u>	nponents:		
-	drocarbons, C10, arom notoxicity in vitro	: Test Type: In v malian cells Result: negativ	ritro sister chromatid exchange assay in mam-
Ger	notoxicity in vivo	cytogenetic tes Species: Rat Application Ro Result: negativ	tagenicity (in vivo mammalian bone-marrow st, chromosomal analysis) ute: inhalation (vapour) /e ed on data from similar materials
	onylphenol, branched	-	cterial reverse mutation assay (AMES)
		Test Type: DN	A damage and repair, unscheduled DNA syn- nalian cells (in vitro)

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amitr	az (ISO):			
Genotoxicity in vitro		:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
			Test Type: In vi Result: negative	ro mammalian cell gene mutation test
			Test Type: Chro Result: negative	emosome aberration test in vitro
				damage and repair, unscheduled DNA syn alian cells (in vitro) e
Bis(2	,6-diisopropylpheny	/l)carb	odiimide:	
-	toxicity in vitro	:	Test Type: Bact	erial reverse mutation assay (AMES) Test Guideline 471
				omosome aberration test in vitro Test Guideline 473
				tro mammalian cell gene mutation test Test Guideline 476
Carci	inogenicity			
Not c	lassified based on av	ailable	information.	
Com	ponents:			
4-No	nylphenol, branched	l, etho	xylated:	
Spec		:	Rat	
	cation Route sure time	:	Ingestion 2 Years	
Resu		:	negative	
Rema	arks	:	-	rom similar materials
	az (ISO):			
amitr			Rat	
Spec	ies		Oral	
Speci Appli	ies cation Route	:		
Speci Applie Expo	ies cation Route sure time	:	2 Years	odv weight
Speci Appli	ies cation Route sure time EL			oody weight
Speci Applie Expos NOAI Resu Spec	ies cation Route sure time EL It		2 Years > 10.18 mg/kg b negative Mouse	oody weight
Speci Applie Expos NOAI Resu Speci Expos	ies cation Route sure time EL It ies sure time		2 Years > 10.18 mg/kg k negative Mouse 2 Years	
Speci Applie Expos NOAI Resu Speci Expos	ies cation Route sure time EL It ies sure time EL		2 Years > 10.18 mg/kg k negative Mouse 2 Years 2.3 mg/kg body	
Speci Applie Expos NOAI Resu Speci Expos LOAE Resu	ies cation Route sure time EL It ies sure time EL		2 Years > 10.18 mg/kg k negative Mouse 2 Years	

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May c	oductive toxicity damage fertility. oonents:				
Hydro	ocarbons, C10, arom	atics,	<1% naphthale	ne:	
Effect	s on fertility	:	Species: Rat Application Rou Result: negative	ee-generation reproduction toxicity study ute: inhalation (vapour) e d on data from similar materials	
Effect ment	s on foetal develop-	:	Species: Rat Application Rou Result: negative	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials	
amitr	az (ISO):				
	s on fertility	:	Species: Rat Application Rou Fertility: NOAE	ee-generation reproduction toxicity study ute: Oral L: > 4.8 mg/kg body weight ificant adverse effects were reported	
Effect ment	s on foetal develop-	:	Species: Rat Application Rou Developmental	oryo-foetal development ite: Oral Toxicity: NOAEL: 3 mg/kg body weight gnificant adverse effects were reported	
			Species: Rabbi Application Rou Developmental		
Bis(2	,6-diisopropylphenyl	)carb	odiimide:		
•	s on fertility	:	Test Type: Rep test Species: Rat Application Rou	Test Guideline 421	
			Test Type: Fert Species: Rat Application Rou Result: positive	ite: Ingestion	
Effect	s on foetal develop-	:	Test Type: Rep	roduction/Developmental toxicity screening	

Remarks

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ersion 1	Revision Date: 30.09.2023		9S Number: 29320-00016	Date of last issue: 04.04.2023 Date of first issue: 11.07.2017
ment			test Species: Rat Application Rout Method: OECD Result: equivoca	Test Guideline 421
Reproo sessm	ductive toxicity - As- ent	:		of adverse effects on sexual function and ferm mal experiments.
	- single exposure ause drowsiness or diz	zzine	SS.	
Comp	onents:			
Hvdro	carbons, C10, aroma	atics.	<1% naphthalen	e:
Assess Remar	sment	:	May cause drow	siness or dizziness. om similar materials
STOT	- repeated exposure			
May ca	• •	ns (Liv		us system, Kidney, Heart, Gastrointestinal l exposure.
<u>Comp</u>	onents:			
amitra	z (ISO):			
	Organs	:	Liver, Central ne May cause dama exposure.	rvous system age to organs through prolonged or repeated
Bis(2,	6-diisopropylphenyl)	carb	odiimide:	
Expos	ure routes Organs	:	Ingestion Kidney, Heart, G	astrointestinal tract, Lymph nodes to organs through prolonged or repeated
Repea	ted dose toxicity			
Comp	onents:			
Hydro	carbons, C10, aroma	atics,	<1% naphthalen	e:
	L ation Route ure time		Rat 300 mg/kg Ingestion 13 Weeks Based on data fr	om similar materials
1-Non	vinhanal branched	otha	vylatod:	
Specie LOAEI Applica	- ation Route ure time	etn0 : : :	Rat > 100 mg/kg Ingestion 90 Days	om similar materials

: Based on data from similar materials

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amitraz (ISO):		
Species NOAEL Application Route Exposure time Target Organs	:	Mouse 3 mg/kg Oral 90 Days Liver
Species NOAEL Application Route Exposure time Target Organs	:	Dog 0.25 mg/kg Oral 90 Days Central nervous system, Liver

#### Bis(2,6-diisopropylphenyl)carbodiimide:

Species NOAEL LOAEL	:	Rat 4 mg/kg 16 mg/kg
Application Route Exposure time Method	:	Ingestion 28 Days OECD Test Guideline 407

#### Aspiration toxicity

May be fatal if swallowed and enters airways.

#### Product:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

#### **Components:**

### Hydrocarbons, C10, aromatics, <1% naphthalene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

#### Experience with human exposure

#### **Components:**

amitraz (ISO):

Ingestion

: Target Organs: Central nervous system

#### 12. ECOLOGICAL INFORMATION

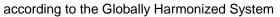
#### Ecotoxicity

#### Components:

#### Hydrocarbons, C10, aromatics, <1% naphthalene:

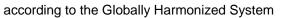
Toxicity to fish

: LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l Exposure time: 96 h





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			Method: OECD	: Water Accommodated Fraction Test Guideline 203 d on data from similar materials	
	ity to daphnia and other ic invertebrates	:	Exposure time: Test substance Method: OECD	magna (Water flea)): 3 - 10 mg/l 48 h : Water Accommodated Fraction Test Guideline 202 d on data from similar materials	
Toxic plants	ity to algae/aquatic	:	EL50 (Pseudokirchneriella subcapitata (green algae)): > 1 - 3 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials		
4-Nor	nylphenol, branched, e	tho	xylated:		
Toxic	ity to fish	:	Exposure time:	les promelas (fathead minnow)): > 0.1 - 1 mg. 96 h d on data from similar materials	
	Toxicity to daphnia and other aquatic invertebrates		EC50 (Ceriodaphnia dubia (water flea)): > 0.1 - 1 mg/l Exposure time: 48 h Remarks: Based on data from similar materials		
	Toxicity to algae/aquatic plants		mg/l Exposure time: Method: OECD	strum capricornutum (green algae)): > 1 - 10 72 h Test Guideline 201 d on data from similar materials	
			Exposure time: Method: OECD	strum capricornutum (green algae)): > 1 mg/l 72 h Test Guideline 201 d on data from similar materials	
M-Fao icity)	ctor (Acute aquatic tox-	:	1		
Toxic icity)	ity to fish (Chronic tox-	:	NOEC: > 0.1 - 7 Exposure time: Species: Oryzia Remarks: Base		
aquat	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		NOEC: > 0.001 - 0.01 mg/l Exposure time: 28 d Species: Mysidopsis bahia (opossum shrimp) Remarks: Based on data from similar materials		
M-Fac toxicit	ctor (Chronic aquatic y)	:	10		





ersion .1	Revision Date: 30.09.2023		S Number: 29320-00016	Date of last issue: 04.04.2023 Date of first issue: 11.07.2017
	<b>az (ISO):</b> ty to fish	:	LC50 (Lepomis Exposure time:	macrochirus (Bluegill sunfish)): 0.45 mg/l 96 h
	Toxicity to daphnia and other aquatic invertebrates		EC50 (Daphnia Exposure time:	magna (Water flea)): 0.035 mg/l 48 h
	Toxicity to algae/aquatic plants		NOEC(Pseudo mg/l Exposure time:	kirchneriella subcapitata (green algae)): 0.04 91 h
M-Fac icity)	ctor (Acute aquatic tox-	:	10	
Toxici icity)	ty to fish (Chronic tox-	:	NOEC: 0.00148 Exposure time: Species: Pimep	
Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)		:	NOEC: 0.0011 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)	
M-Factor (Chronic aquatic toxicity)		:	10	
Bis(2	,6-diisopropylphenyl)c	arb	odiimide:	
Toxici	ty to fish	:	Exposure time: Method: OECD	nchus mykiss (rainbow trout)): > 0.1 mg/l 96 h Test Guideline 203 xicity at the limit of solubility
	Toxicity to daphnia and other aquatic invertebrates		Exposure time: Method: OECD	magna (Water flea)): > 1 mg/l 48 h Test Guideline 202 xicity at the limit of solubility
Toxici plants	ty to algae/aquatic	:	Exposure time: Method: OECD	desmus subspicatus (green algae)): > 1 mg/l 72 h Test Guideline 201 xicity at the limit of solubility
			Exposure time:	desmus subspicatus (green algae)): > 1 mg/l 72 h Test Guideline 201
Toxici	ty to microorganisms	:	EC50: > 1,000 r Exposure time: Method: OECD	

according to the Globally Harmonized System



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Doro	otopoo ond dogradah			
	stence and degradab	mity		
	ponents:			
-	ocarbons, C10, aroma egradability	atics, :	Result: Not read Biodegradation: Exposure time: 2	lily biodegradable. 49.56 %
4-Noi	nylphenol, branched,	etho	xylated:	
Biode	egradability	:		lily biodegradable. d on data from similar materials
Bis(2	,6-diisopropylphenyl	)carb	odiimide:	
Biode	egradability	:	Biodegradation: Exposure time: 2	
Bioad	ccumulative potential	I		
<u>Com</u>	ponents:			
4-Noi	nylphenol, branched,	etho	xylated:	
	ion coefficient: n- ol/water	:	log Pow: < 4	
amitr	az (ISO):			
	cumulation	:		nis macrochirus (Bluegill sunfish) n factor (BCF): 1,333
	ion coefficient: n- ol/water	:	log Pow: 5.5	
Bis(2	,6-diisopropylphenyl	)carb	odiimide:	
Bioac	cumulation	:	Bioconcentration	n factor (BCF): > 500
	ion coefficient: n- ol/water	:	log Pow: > 6.2	
Mobi	lity in soil			
Com				
_	ponents:			
amitr	ponents: az (ISO):			

according to the Globally Harmonized System



### Amitraz (12.5%) Formulation

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	<b>r adverse effects</b> ata available		

#### 13. DISPOSAL CONSIDERATIONS

Disposal methods		
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 han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

### International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (amitraz (ISO))
Class	:	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	:	
Labels	:	Miscellaneous
Packing instruction (cargo	:	964
aircraft)		
Packing instruction (passen- ger aircraft)	:	964
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(amitraz (ISO))
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

#### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

according to the Globally Harmonized System



### Amitraz (12.5%) Formulation

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#### 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.

#### **15. REGULATORY INFORMATION**

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

#### The components of this product are reported in the following inventories:

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

#### **16. OTHER INFORMATION**

Revision Date :	30.09.2023			
compile the Safety Data	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-			
Sheet Date format :	cy, http://echa.europa.eu/ dd.mm.yyyy			
Full text of other abbreviations				
ACGIH : IN OEL :	USA. ACGIH Threshold Limit Values (TLV) India. Permissible levels of certain chemical substances in work environment.			
ACGIH / TWA : IN OEL / TWA : IN OEL / STEL :	8-hour, time-weighted average Time-Weighted Average Concentration (TWA) (8 hrs.) Short-term exposure Limit STEL (15 min)			

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Con-

according to the Globally Harmonized System



### Amitraz (12.5%) Formulation

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centration 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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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