

Amitraz (5%) Formulation

Version 6.0	Revision Date: 28.09.2024		S Number: 29233-00016	Date of last issue: 30.09.2023 Date of first issue: 11.07.2017				
SECTION	SECTION 1. IDENTIFICATION							
Produ	uct identifier	:	Amitraz (5%) Fo	rmulation				
Manu	facturer or supplier	s detai	ils					
Com	bany	:	MSD					
Addre	Address		Rua Coronel Bento Soares, 530 Cruzeiro - Sao Paulo - Brazil CEP 12730-340					
Telep	Telephone		908-740-4000					
Emer	Emergency telephone		1-908-423-6000					
E-ma	il address	:	EHSDATASTEV	VARD@msd.com				
Reco	mmended use of the	chem	ical and restricti	ons on use				
	mmended use ictions on use	:	Veterinary produ Not applicable	uct				

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with ABNT NBR 14725 Standard				
Flammable liquids	:	Category 3		
Acute toxicity (Oral)	:	Category 5		
Skin irritation	:	Category 2		
Eye irritation	:	Category 2A		
Germ cell mutagenicity	:	Category 1B		
Carcinogenicity	:	Category 1B		
Reproductive toxicity	:	Category 1B		
Specific target organ toxicity - single exposure	:	Category 3		
Specific target organ toxicity - repeated exposure	:	Category 2 (Kidney, Heart, Gastrointestinal tract, Lymph nodes)		
Aspiration hazard	:	Category 1		
Short-term (acute) aquatic hazard	:	Category 1		
Long-term (chronic) aquatic	:	Category 1		



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hazar	d		
GHS	label elements in acc	cordance with ABNT	NBR 14725 Standard
Hazaı	rd pictograms		
Signa	l Word	: Danger	
Hazaı	rd Statements	H303 May be H304 May be H315 Causes H319 Causes H336 May cau H340 May cau H350 May cau H360F May da H373 May cau testinal tract, L exposure.	serious eye irritation. Ise drowsiness or dizziness. Ise genetic defects. Ise cancer.
Preca	utionary Statements	P210 Keep aw and other ignit P233 Keep co P264 Wash sk P271 Use only P273 Avoid re	pecial instructions before use. vay from heat, hot surfaces, sparks, open flan ion sources. No smoking. ntainer tightly closed. in thoroughly after handling. / outdoors or in a well-ventilated area. lease to the environment. otective gloves/ protective clothing/ eye prote
		Response: P301 + P310 CENTER/ doc P303 + P361 - ly all contamin P304 + P340 - and keep com doctor if you fe P305 + P351 - for several mir easy to do. Co P308 + P313 attention. P331 Do NOT P332 + P313 tion.	IF SWALLOWED: Immediately call a POISON tor. + P353 IF ON SKIN (or hair): Take off immed ated clothing. Rinse skin with water. + P312 IF INHALED: Remove person to fresh fortable for breathing. Call a POISON CENTE eel unwell. + P338 IF IN EYES: Rinse cautiously with wa nutes. Remove contact lenses, if present and ontinue rinsing. IF exposed or concerned: Get medical advice induce vomiting. If skin irritation occurs: Get medical advice/ at f eye irritation persists: Get medical advice/ at



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		Storage: P405 Store	e locked up.	
Vapo	r hazards which do not rs may form explosive mi 3. COMPOSITION/INFC	xture with air.		
Subst	tance / Mixture	: Mixture		
Com	ponents			
Chem	nical name	CAS-No.	Classification	Concentration (% w/w)
	ent naphtha (petroleum), aromatic	64742-95-6	Flam. Liq., 3 Skin Irrit., 2 Muta., 1B Carc., 1B STOT SE, 3 Asp. Tox., 1 Aquatic Acute, 2 Aquatic Chronic, 2	>= 70 -< 90
	nylphenol, branched, ylated	127087-87-0	Acute Tox. (Oral), 4 Eye Irrit., 2A Aquatic Acute, 1 Aquatic Chronic, 1	>= 10 -< 20
Amitra	az (ISO)	33089-61-1	Acute Tox. (Oral), 4 STOT RE, (Liver, Central nervous sys- tem), 2 Aquatic Acute, 1 Aquatic Chronic, 1	>= 5 -< 10
Bis(2, diiso- propy		2162-74-5	Acute Tox. (Oral), 4 Repr., 1B STOT RE, (Kidney, Heart, Gastrointestinal tract, Lymph nodes), 1 Aquatic Chronic, 4	>= 1 -< 2,5

Alternative CAS Numbers for some regions

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

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately.
		When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air.



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In case of skin contact		: In case of con for at least 15 and shoes. Get medical a Wash clothing	for at least 15 minutes while removing contaminated clothing				
In cas	e of eye contact	: In case of con for at least 15	ntact, immediately flush eyes with plenty of water 5 minutes. remove contact lens, if worn.				
lf swa	llowed	: If swallowed, If vomiting oc Call a physici Rinse mouth	 If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control center immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. 				
	important symptoms ffects, both acute and ed	: May be harm May be fatal i Causes skin i Causes serio May cause du May cause ge May cause ca May damage	 May be harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. May damage fertility. May cause damage to organs through prolonged or repeated 				
	ction of first-aiders to physician	: First Aid resp and use the r when the pote	onders should pay attention to self-protection, ecommended personal protective equipment ential for exposure exists (see section 8). matically and supportively.				

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. 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.



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				Evacuate area.	
	Special or fire-f	protective equipment ighters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
SECT	TION 6.	ACCIDENTAL RELE	ASE	EMEASURES	
ti	ive equ	al precautions, protec- ipment and emer- rocedures	:		
E	Environ	mental 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 containn oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spilla cannot be contained. 	
		s and materials for ment and cleaning up	:	Suppress (knock of jet. For large spills, pr containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	s should be used. absorbent material. down) gases/vapors/mists with a water spray rovide diking or other appropriate ep material from spreading. If diked material atore recovered material in appropriate ing materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to regulations are applicable. 5 of this SDS provide information regarding tional requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation. Use explosion-proof electrical, ventilating and lighting equip- ment.
Advice on safe handling		Do not get on skin or clothing.
Advice on sale handling	•	Do not breathe mist or vapors.
		Do not swallow.
		Do not get in eyes.
		Wash skin thoroughly after handling.
		Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure



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		Keep containe Keep away fro other ignition s Take precautic Do not eat, driv	ools should be used. r tightly closed. m heat, hot surfaces, sparks, open flames and ources. No smoking. onary measures against static discharges. nk or smoke when using this product. revent spills, waste and minimize release to the
Hygie	ene measures	flushing syster place. When using do Wash contami The effective o engineering co appropriate de industrial hygie	chemical is likely during typical use, provide eye ns and safety showers close to the working o not eat, drink or smoke. nated clothing before re-use. peration of a facility should include review of introls, proper personal protective equipment, gowning and decontamination procedures, ene monitoring, medical surveillance and the trative controls.
Cond	litions for safe storage	: Keep in proper Store locked u Keep tightly clo Keep in a cool Store in accord	ly labeled containers. p.
Mate	rials to avoid	: Do not store w Strong oxidizin Self-reactive s Organic peroxi Flammable sol Pyrophoric liqu Pyrophoric sol Self-heating su Substances ar flammable gas Explosives Gases	ith the following product types: g agents ubstances and mixtures des ids ids ubstances and mixtures id mixtures which in contact with water emit

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

:

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Solvent naphtha (petroleum), light aromatic	64742-95-6	TWA	200 mg/m ³ (total hydrocarbon vapor)	ACGIH
Amitraz (ISO)	33089-61-1	TWA	10 µg/m3 (OEB 3)	Internal
		Wipe limit	1250 µg/100 cm ²	Internal

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-



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			design and oper protect products Containment tec are required to c	controls should be implemented by facility ated in accordance with GMP principles to , workers, and the environment. Innologies suitable for controlling compounds control at source and to prevent migration of o uncontrolled areas (e.g., open-face rices).
			Use explosion-p equipment.	roof electrical, ventilating and lighting
Perso	onal protective equip	ment		
Respi	iratory protection	:	exposure assess	l exhaust ventilation is not available or sment demonstrates exposures outside the uidelines, use respiratory protection.
	ter type protection	:		ulates and organic vapor type
Ma	aterial	:	Chemical-resista	ant gloves
Re	emarks	:		gloving. Take note that the product is h may impact the selection of hand
Eye p	rotection	:	Wear safety glas If the work envir mists or aerosols Wear a faceshie	esses with side shields or goggles. Conment or activity involves dusty conditions, 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 a	and body protection	:	Work uniform or Additional body task being perfo disposable suits	garments should be used based upon the rmed (e.g., sleevelets, apron, gauntlets,) to avoid exposed skin surfaces. degowning techniques to remove potentially

Physical state	:	liquid
Color	:	yellow
Odor	:	characteristic, aromatic, hydrocarbon-like
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	Not applicable
Initial boiling point and boiling range	:	No data available



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	Flash p	point	:	53 °C	
	Evapor	ation rate	:	No data available	9
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper ibility limit	:	7 %(V)	
		explosion limit / Lower bility limit	:	0,8 %(V)	
	Vapor p	oressure	:	No data available	9
	Relativ	e vapor density	:	No data available	9
	Relative	e density	:	No data available	9
	Density	/	:	No data available	9
	Solubili Wat	ity(ies) er solubility	:	emulsifiable	
	Partitio octanol	n coefficient: n-	:	No data available	2
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizii	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	Not applicable	
	Particle Particle	e characteristics e size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks.



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Incompatible materials Hazardous decomposition products		 Oxidizing agents No hazardous decomposition products are known. 		
SECTION 11. TOXICOLOGIC	L INFC	RMATION		
Information on likely routes exposure	s of :	Inhalation Skin contact Ingestion Eye contact		
Acute toxicity May be harmful if swallowe	ed.			
Product:				
Acute oral toxicity	:	Acute toxicity e Method: Calcu	estimate: 2.376 mg/kg lation method	
Components:				
Solvent naphtha (petrole	um), lig	t aromatic:		
Acute oral toxicity	:	LD50 (Rat): > \$	5.000 mg/kg	
Acute inhalation toxicity	:	LC50 (Rat): > Exposure time Test atmosphe	: 4 h	
Acute dermal toxicity	:	LD50 (Rabbit):	> 2.000 mg/kg	
4-Nonylphenol, branched	d, ethox	ylated:		
Acute oral toxicity	:		300 - 2.000 mg/kg ed on data from similar materials	
Acute dermal toxicity	:	LD50 (Rabbit):	> 2.000 mg/kg	
Amitraz (ISO):				
Acute oral toxicity	:	LD50 (Rat): > 4	400 mg/kg	
		LD50 (Mouse)	: > 1.085 mg/kg	
		LD50 (Guinea	pig): > 400 mg/kg	
Acute inhalation toxicity	:	Remarks: No c	lata available	
Acute dermal toxicity	:	: LD50 (Rat): > 1.600 mg/kg		
II Bis(2,6-diisopropylpheny	/l)carbo	odiimide:		
Acute oral toxicity	•	LD50 (Rat): > 3	300 - 2.000 mg/kg) Test Guideline 423	
Acute dermal toxicity	:		2.000 mg/kg) Test Guideline 402 The substance or mixture has no acute dermal	
		9 / 21		



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		toxicity	
	corrosion/irritation		
-	es skin irritation.		
-	oonents:		
	ent naphtha (petrole		
Speci Metho		: Rabbit : OECD Test G	udeline 404
Resu		: Skin irritation	
Amitr	az (ISO):		
Speci		: Rabbit	
Resu	t	: No skin irritatio	n
Bis(2	,6-diisopropylpheny	l)carbodiimide:	
Speci	es	: Rabbit	
Metho		: OECD Test G	uideline 404
Resu	t	: No skin irritatio	on
	ent naphtha (petrole	u m), light aromatic: : Rabbit	
Speci Resu		: No eye irritatic	n
Metho		: OECD Test G	
4-Nor	ylphenol, branched	, ethoxylated:	
Speci		: Rabbit	
Resu		: Irritation to eye	es, reversing within 21 days
Amitr	az (ISO):		
Speci	es	: Rabbit	
Resu	t	: No eye irritatio	n
Bis(2	,6-diisopropylpheny	l)carbodiimide:	
Speci		: Rabbit	
Resu		: No eye irritatio	
Metho	bd	: OECD Test G	uideline 405
Resp	iratory or skin sensi	tization	
-	iratory or skin sensi sensitization	tization	

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-	ratory sensitization		
-	atory schollization		
	assified based on ava	ilable information.	
Comp	onents:		
Solve	nt naphtha (petroleu	m), light aromatic:	
Test T	vpe	: Buehler Test	
	s of exposure	: Skin contact	
Specie		: Guinea pig	
Result		: negative	
4-Non	ylphenol, branched	, ethoxylated:	
Test T		-	t insult patch test (HRIPT)
Routes	s of exposure	: Skin contact	• • • •
Result		: negative	
Remai	rks	: Based on data	a from similar materials
Amitra	az (ISO):		
Test T		: Maximization	Test
	s of exposure	: Dermal	
Specie		: Guinea pig	
Result		: Not a skin ser	nsitizer.
Routes Specie Metho Result	d	: Skin contact : Guinea pig : OECD Test G : negative	uideline 406
	cell mutagenicity ause genetic defects.		
-	-		
	onents:		
	nt naphtha (petroleu		
Genot	oxicity in vitro	: Test Type: Ba Result: negati	acterial reverse mutation assay (AMES)
		Test Type: In Result: positiv	vitro mammalian cell gene mutation test /e
Genot	oxicity in vivo	gonia Species: Mou Application Ro	oute: Intraperitoneal injection
Germ Asses	cell mutagenicity -	Result: positive : Positive resultive resultive resultive resultive resultive resultive resultive resultive resultive rests in mammer and the rest of the resultive re	t(s) from in vivo heritable germ cell mutagenicit

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4-Nonylphenol, branched, ethoxylated:



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Genc	otoxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: DNA o thesis in mamma Result: negative	damage and repair, unscheduled DNA syn- lian cells (in vitro)
Amit	raz (ISO):			
	otoxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: In vitro Result: negative	o mammalian cell gene mutation test
			Test Type: Chron Result: negative	nosome aberration test in vitro
			Test Type: DNA o thesis in mamma Result: negative	damage and repair, unscheduled DNA syn- lian cells (in vitro)
Bis(2	2,6-diisopropylphenyl)	carb	odiimide:	
	otoxicity in vitro	:	Test Type: Bacte	rial reverse mutation assay (AMES) est Guideline 471
				nosome aberration test in vitro est Guideline 473
				o mammalian cell gene mutation test est Guideline 476
II Carc	inogenicity			
	cause cancer.			
Com	ponents:			
Solve	ent naphtha (petroleur	n), li	ght aromatic:	
Spec Appli	ies cation Route	:	Mouse Skin contact	
Expo	sure time	:	2 Years	
Resu	lt	:	positive	
Carci ment	nogenicity - Assess-	:	Sufficient evidence	ce of carcinogenicity in animal experiments
	nylphenol, branched,	etho	xylated:	
Spec Appli	ies cation Route	:	Rat	
Expo	sure time	:	Ingestion 2 Years	
'				



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Result Remai			egative ased on data fro	m similar materials
Specie Applica Expos NOAE Result Specie Expos LOAEI Result	ation Route ure time L es ure time	: 2 : > : ne : M : 2 : 2, : po	at ral Years 10,18 mg/kg bo egative ouse Years 3 mg/kg body w psitive ver, Stomach	
May da	ductive toxicity amage fertility. onents:			
	nt naphtha (petroleum s on fertility	: Te te Sj Aj	est Type: Repro st pecies: Rat	duction/Developmental toxicity screening : inhalation (vapor)
Effects	s on fetal development	SI Al	pecies: Rat	o-fetal development : inhalation (vapor)
Amitra	az (ISO):			
	s on fertility	S A Fe	pecies: Rat oplication Route ertility: NOAEL:	generation reproduction toxicity study : Oral > 4,8 mg/kg body weight cant adverse effects were reported
Effects	s on fetal development	SI AI Di Ri SI AI Di	pecies: Rat oplication Route evelopmental To emarks: No sign est Type: Embry pecies: Rabbit oplication Route evelopmental To	oxicity: NOAEL: 3 mg/kg body weight ificant adverse effects were reported o-fetal development

Bis(2,6-diisopropylphenyl)carbodiimide:



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Effect	ts on fertility	:	test Species: Rat Application Route	eduction/Developmental toxicity screening e: Ingestion fest Guideline 421
			Test Type: Fertilit Species: Rat Application Route Result: positive	-
Effect	ts on fetal development	:	test Species: Rat Application Route	est Guideline 421
Repro sessr	oductive toxicity - As- nent	:		f adverse effects on sexual function and animal experiments.
	oonents: ent naphtha (petroleum ssment), li :	-	siness or dizziness.
May o	F-repeated exposure cause damage to organs nged or repeated exposu		dney, Heart, Gastr	ointestinal tract, Lymph nodes) through
Com	oonents:			
Targe	r az (ISO): et Organs ssment	:	Liver, Central ner May cause dama exposure.	vous system ge to organs through prolonged or repeated
Bis(2	,6-diisopropylphenyl)c	arb	odiimide:	
Targe	es of exposure et Organs ssment	:		astrointestinal tract, Lymph nodes to organs through prolonged or repeated
Repe	ated dose toxicity			
Com	oonents:			
	ent naphtha (petroleum), li	ght aromatic:	
Speci	es	:	Rat	



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	L ation Route sure time	: 500 mg/kg : Ingestion : 28 Days	
4-Non	ylphenol, branched	ethoxylated:	
	L ation Route sure time	: Rat : > 100 mg/kg : Ingestion : 90 Days : Based on data	from similar materials
Amitra	az (ISO):		
Expos		: Mouse : 3 mg/kg : Oral : 90 Days : Liver	
Expos		: Dog : 0,25 mg/kg : Oral : 90 Days : Central nervou	s system, Liver
Bis(2,	6-diisopropylphenyl)carbodiimide:	
Specie NOAE LOAE Applic	es EL L ation Route sure time	: Rat : 4 mg/kg : 16 mg/kg : Ingestion : 28 Days : OECD Test Gu	ideline 407
-	ation toxicity le fatal if swallowed al	nd enters airways.	
Produ		- / -	
		known to cause hum	an aspiration toxicity hazards or has to be re-

Components:

Solvent naphtha (petroleum), light aromatic:

garded as if it causes a human aspiration toxicity hazard.

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



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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Solvent naphtha (petroleum), light aromatic:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 8,2 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): 4,5 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (microalgae)): 3,1 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
		NOELR (Pseudokirchneriella subcapitata (microalgae)): 0,5 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)	:	NOELR (Daphnia magna (Water flea)): 2,6 mg/l Exposure time: 21 d Test substance: Water Accommodated Fraction Method: OECD Test Guideline 211

4-Nonylphenol, branched, ethoxylated:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 0,1 - 1 mg/l Exposure time: 96 h Remarks: Based 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	:	ErC50 (Selenastrum capricornutum (green algae)): > 1 - 10 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
		EC10 (Selenastrum capricornutum (green algae)): > 1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
M-Factor (Acute aquatic tox- icity)	:	1



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Toxicity icity)	/ to fish (Chronic tox-	:	Exposure time: 10	tipes (Japanese medaka)): > 0,1 - 1 mg/l)0 d on data from similar materials
	/ to daphnia and other invertebrates (Chron- ity)	:	mg/l Exposure time: 28	is bahia (opossum shrimp)): > 0,001 - 0,01 3 d on data from similar materials
M-Factor toxicity	or (Chronic aquatic)	:	10	
Amitra	z (ISO):			
Toxicity		:	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	agna (Water flea)): 0,035 mg/l 3 h
Toxicity plants	/ to algae/aquatic	:	NOEC (Pseudokir mg/l Exposure time: 91	rchneriella subcapitata (green algae)): 0,04 h
M-Fact icity)	or (Acute aquatic tox-	:	10	
	/ to fish (Chronic tox-	:	NOEC (Pimephale mg/l Exposure time: 32	es promelas (fathead minnow)): 0,00148 2 d
	invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0,0011 mg/l ⊢d
	or (Chronic aquatic	:	10	
Bis(2,6	-diisopropylphenyl)c	arb	odiimide:	
Toxicity	/ to fish	:	Exposure time: 96 Method: OECD Te	
	/ to daphnia and other invertebrates	:	Exposure time: 48 Method: OECD Te	
Toxicity plants	/ to algae/aquatic	:	Exposure time: 72 Method: OECD Te	
			NOEC (Desmode Exposure time: 72 Method: OECD Te	
Toxicity	/ to microorganisms	:	EC50: > 1.000 mg	g/l



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			Exposure time: Method: OECD	3 h 9 Test Guideline 209
Persi	stence and degradabi	lity		
<u>Com</u>	oonents:			
Solve	ent naphtha (petroleur	n), li	ght aromatic:	
Biode	egradability	:	Result: Inheren Biodegradation Exposure time:	
4-Noi	nylphenol, branched, o	etho	xylated:	
Biode	gradability	:		dily biodegradable. ed on data from similar materials
Bis(2	,6-diisopropylphenyl)	carb	odiimide:	
Biode	gradability	:	Biodegradation Exposure time:	
Bioad	cumulative potential			
<u>Com</u>	oonents:			
4-Noi	nylphenol, branched, o	etho	xylated:	
	ion coefficient: n- ol/water	:	log Pow: < 4	
	raz (ISO):			
Bioac	cumulation	:		nis macrochirus (Bluegill sunfish) on factor (BCF): 1.333
	ion coefficient: n- ol/water	:	log Pow: 5,5	
	,6-diisopropylphenyl)	carb	odiimide:	
Bioac	cumulation	:	Bioconcentratio	on factor (BCF): > 500
	ion coefficient: n- ol/water	:	log Pow: > 6,2	
Mobi	lity in soil			
Com	oonents:			
Amitr	raz (ISO):			
	bution among environ- al compartments	:	log Koc: 3,3	
	r adverse effects ata available			



Amitraz (5%) Formulation

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SECTION 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 handling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name Class Packing group Labels Environmentally hazardous	· · · ·	UN 3295 HYDROCARBONS, LIQUID, N.O.S. 3 III 3 no
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		UN 3295 Hydrocarbons, liquid, n.o.s. 3 III Flammable Liquids 366 355
IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant	· · · · · · · · · · · · · · · · · · ·	UN 3295 HYDROCARBONS, LIQUID, N.O.S. (Amitraz (ISO)) 3 III 3 F-E, S-D yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

Domestic regulation

ANTT		
UN number	: UN 3295	
Proper shipping name	: HYDROCARBONS, LIQUID, N.O.	S.
Class	: 3	



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	Labels	g group I Identification Number	: III : 3 umber : 30			
	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.					
SEC	CTION 1	5. REGULATORY INF	OR	MATION		
	Safety mixtur	-	ienta	al regulations/leg	islatio	n specific for the substance or
1	Nationa	al List of Carcinogenic	Ager	nts for Humans - (I	INACI	Н)
	Group 2B: Possibly carcinogenic to humans Solvent naphtha (petroleum), light aromatic 64742-95-6				42-95-6	
ļ	Brazil. List of chemicals controlled by the Federal Police : Solvent naphtha (petroleum), I aromatic				Solvent naphtha (petroleum), light aromatic	
	The in AICS	gredients of this prod	uct :	are reported in the not determined	ne follo	owing inventories:
	DSL		:	not determined		
	IECSC		: not determined			

SECTION 16. OTHER INFORMATION

Revision Date	:	28.09.2024
Date format	:	dd.mm.yyyy

Further information

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

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA	:	8-hour, time-weighted average

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;



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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 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

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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