



Vers 4.2	sion	Revision Date: 06.04.2024		S Number: 9235-00016	Date of last issue: 30.09.2023 Date of first issue: 11.07.2017
SEC	TION 1 Produc	: IDENTIFICATION t name	:	Amitraz (5%) For	mulation
	Manufacturer or supplier's det			ls	
	Company		:	Intervet Australia Pty Limited (trading as MSD Animal Health)	
	Address		:	91-105 Harpin St Bendigo 3550, V	
	Telepho	one	:	1 800 033 461	
	Emergency telephone number		:	Poisons Informat	ion Centre: Phone 13 11 26
	E-mail a	address	:	EHSDATASTEW	ARD@msd.com
	Recommended use of the chemic			cal and restrictio	ons on use
	Recommended use Restrictions on use		:	Veterinary produc Not applicable	ct

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Flammable liquids	:	Category 3
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irri- tation	:	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

GHS label elements



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Hazar	rd pictograms		
Signal word		: Danger	\mathbf{v}
Hazard statements		H304 May be f H315 Causes H319 Causes H336 May cau H340 May cau H350 May cau H360F May da H373 May cau	serious eye irritation. Ise drowsiness or dizziness. Ise genetic defects. Ise cancer.
Preca	utionary statements	Prevention:	
		P202 Do not h and understoo P210 Keep aw and other ignit P233 Keep co P241 Use exp ment. P242 Use non P243 Take act P260 Do not b P264 Wash sk P271 Use only	vay from heat, hot surfaces, sparks, open flame ion sources. No smoking. ntainer tightly closed. losion-proof electrical/ ventilating/ lighting equi -sparking tools. tion to prevent static discharges. reathe mist or vapours. tin thoroughly after handling. v outdoors or in a well-ventilated area. otective gloves/ protective clothing/ eye protec-
		Response:	
		CENTER/ doc P303 + P361 - Iy all contamin P304 + P340 - and keep com doctor if you fe P305 + P351 - for several min easy to do. Co P308 + P313 I attention.	 P353 IF ON SKIN (or hair): Take off immedia ated clothing. Rinse skin with water. P312 IF INHALED: Remove person to fresh a fortable for breathing. Call a POISON CENTER bel unwell. P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and ontinue rinsing. F exposed or concerned: Get medical advice/
		P332 + P313 I tion.	induce vomiting. f skin irritation occurs: Get medical advice/ atte f eye irritation persists: Get medical advice/ at-





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tention.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

Vapours may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Solvent naphtha (petroleum), light aromatic	64742-95-6	>= 60 -<= 100
4-Nonylphenol, branched, ethoxylated	127087-87-0	>= 10 -< 30
amitraz (ISO)	33089-61-1	< 10
Bis(2,6-diisopropylphenyl)carbodiimide	2162-74-5	>= 1 -< 10

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 unvice immediately. When symptoms persist or in all cases advice.	
If inhaled	If inhaled, remove to fresh air. Get medical attention.	
In case of skin contact	In case of contact, immediately flush sk for at least 15 minutes while removing of and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.	
In case of eye contact	In case of contact, immediately flush ey for at least 15 minutes. If easy to do, remove contact lens, if wo Get medical attention.	
If swallowed	If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean for Call a physician or poison control centre Rinse mouth thoroughly with water. Never give anything by mouth to an unc	e immediately.

SAFETY DATA SHEET



Amitraz (5%) Formulation

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Most important symptoms and effects, both acute and delayed		:	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 exposure		
Protection of first-aiders		:	exposure. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).		
		to physician	:		cally and supportively.
SEC	SECTION 5. FIREFIGHTING MEASURES				
		e extinguishing media able extinguishing	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical High volume wate	202)
	media	c hazards during fire-	:	-	d water stream as it may scatter and spread
	fighting			fire. Flash back possik Vapours may forn	ble over considerable distance. n explosive mixtures with air. bustion products may be a hazard to health.
	Hazard ucts	lous combustion prod-	:	Carbon oxides Nitrogen oxides (I	NOx)
	Specifi ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	for firef	l protective equipment ighters em Code	:	In the event of fire	e, wear self-contained breathing apparatus. tective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective 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.



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		Local authoritic cannot be con	es should be advised if significant spillages tained.
Methods and materials for containment and cleaning up		Soak up with in Suppress (kno spray jet. For large spills ment to keep r be pumped, st Clean up rema bent. Local or natior posal of this m employed in th mine which reg Sections 13 ar	tools should be used. nert absorbent material. ack down) gases/vapours/mists with a water s, provide dyking or other appropriate contain- material from spreading. If dyked material can ore recovered material in appropriate container. aining materials from spill with suitable absor- nal regulations may apply to releases and dis- naterial, as well as those materials and items ne cleanup of releases. You will need to deter- gulations are applicable. nd 15 of this SDS provide information regarding r national requirements.
SECTIO	ON 7. HANDLING AND ST	ORAGE	
	chnical measures cal/Total ventilation	CONTROLS/F	ng measures under EXPOSURE PERSONAL PROTECTION section. ntilation is unavailable, use with local exhaust

	Use explosion-proof electrical, ventilating and lighting equip-
	ment.
:	Do not get on skin or clothing.

		ment.
Advice on safe handling	:	Do not get on skin or clothing.
		Do not breathe mist or vapours.
		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 as-
		sessment
		Non-sparking tools should be used.
		Keep container tightly closed.
		Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		Take precautionary measures against static discharges.
		Do not eat, drink or smoke when using this product.
		Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	:	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
		engineering controls, proper personal protective equipment,
		appropriate degowning and decontamination procedures,



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Conditions for safe storage		 industrial hygiene monitoring, medical surveillance and the use of administrative controls. Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition. 				
Materials to avoid		: Do not store with Self-reactive sub Organic peroxide Oxidizing agents Flammable gase Pyrophoric liquid Pyrophoric solids	the following product types: stances and mixtures s s s s stances and mixtures			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components 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	900 mg/m3	AU OEL
		TWA	200 mg/m3 (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-
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 con-
tainment devices).
Minimize open handling.Use explosion-proof electrical, ventilating and lighting equip-
ment.

Personal protective equipment

:

Respiratory protection

If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the rec-



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	lter type protection			nes, use respiratory protection. ates and organic vapour type	
Ma	aterial	: Chemio	cal-resistant	gloves	
Re	emarks	: Consider double gloving. Take note that the product is mable, which may impact the selection of hand protect			
Eye p	protection	: Wear s If the w mists o Wear a potenti	 Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty condition mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, di posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potential contaminated clothing. 		
Skin a	and body protection	: Work u Additio task be posable Use ap			

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	:	53 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	7 %(V)
Lower explosion limit / Lower flammability limit	:	0.8 %(V)

SAFETY DATA SHEET



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Va	apour	pressure	:	No data available	
Re	elative	e vapour density	:	No data available	
Re	elative	edensity	:	No data available	•
De	ensity		:	No data available	•
So	olubilit Wate	y(ies) er solubility	:	emulsifiable	
	artitior ctanol/	n coefficient: n-	:	No data available	
		nition temperature	:	No data available	•
De	ecomp	position temperature	:	No data available	•
Vi	iscosit Visco	y osity, kinematic	:	No data available	
Ex	xplosiv	ve properties	:	Not explosive	
O	xidizin	g properties	:	The substance of	mixture is not classified as oxidizing.
M	lolecul	ar weight	:	Not applicable	
	article article	characteristics 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 vapour. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	Heat, flames and sparks. Oxidizing agents No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes	: Inhalation Skin contact Ingestion Eve contact
	Eye contact



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	e toxicity assified based on ava	ailable information.	
<u>Produ</u>	<u>ict:</u>		
Acute	oral toxicity		estimate: > 2,000 mg/kg ulation method
<u>Comp</u>	oonents:		
Solve	nt naphtha (petrole	um), light aromatic:	
Acute	oral toxicity	: LD50 (Rat): >	5,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): > Exposure time Test atmosph	e: 4 h
Acute	dermal toxicity	: LD50 (Rabbit)	: > 2,000 mg/kg
4-Non	ylphenol, branched	l, ethoxylated:	
Acute	oral toxicity		300 - 2,000 mg/kg sed on data from similar materials
Acute	dermal toxicity	: LD50 (Rabbit)	: > 2,000 mg/kg
amitra	az (ISO):		
Acute	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	d)carbodiimide:	
Acute	oral toxicity		300 - 2,000 mg/kg D Test Guideline 423
Acute	dermal toxicity		2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute de

Causes skin irritation.



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Components:

Solvent naphtha (petroleum), light aromatic:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Skin irritation

amitraz (ISO):

Species	:	Rabbit
Result	:	No skin irritation

Bis(2,6-diisopropylphenyl)carbodiimide:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Solvent naphtha (petroleum), light aromatic:

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

4-Nonylphenol, branched, ethoxylated:

Species	:	Rabbit
Result	:	Irritation to eyes, reversing within 21 days

amitraz (ISO):

Species	:	Rabbit
Result	:	No eye irritation

Bis(2,6-diisopropylphenyl)carbodiimide:

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.



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-			

Components:

Solvent naphtha (petroleum), light aromatic:

Test Type	:	Buehler Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Result	:	negative

4-Nonylphenol, branched, ethoxylated:

Test Type :	:	Human repeat insult patch test (HRIPT)
Exposure routes :	:	Skin contact
Result :	:	negative
Remarks :	:	Based on data from similar materials

amitraz (ISO):

Test Type :	Maximisation Test
Exposure routes :	Dermal
Species :	Guinea pig
Result :	Not a skin sensitizer.

Bis(2,6-diisopropylphenyl)carbodiimide:

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative

Chronic toxicity

Germ cell mutagenicity

May cause genetic defects.

Components:

Solvent naphtha (petroleum), light aromatic:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: In vitro mammalian cell gene mutation test Result: positive
Genotoxicity in vivo	:	Test Type: Sister chromatid exchange analysis in spermato- gonia Species: Mouse Application Route: Intraperitoneal injection Result: positive
Germ cell mutagenicity - Assessment	:	Positive result(s) from in vivo heritable germ cell mutagenicity tests in mammals





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4-Noi	nylphenol, branched,	etho	xylated:	
Geno	toxicity in vitro	:	Test Type: Bac Result: negative	erial reverse mutation assay (AMES)
				damage and repair, unscheduled DNA syr alian cells (in vitro) e
amitr	az (ISO):			
Geno	toxicity in vitro	:	Test Type: Bac Result: negative	erial reverse mutation assay (AMES)
			Test Type: In vi Result: negative	tro mammalian cell gene mutation test
			Test Type: Chro Result: negative	pmosome aberration test in vitro
				damage and repair, unscheduled DNA syr alian cells (in vitro) e
Bis(2	,6-diisopropylphenyl)carb	odiimide:	
Geno	toxicity in vitro	:		erial reverse mutation assay (AMES) Test Guideline 471 e
				omosome aberration test in vitro Test Guideline 473 e
				tro mammalian cell gene mutation test Test Guideline 476 e
	nogenicity cause cancer.			
Com	oonents:			
Solve	ent naphtha (petroleu	m), li	ght aromatic:	
Speci		:	Mouse Skip contact	
	cation Route sure time	:	Skin contact 2 Years	
Resu		:	positive	
Carci ment	nogenicity - Assess-	:	Sufficient evide	nce of carcinogenicity in animal experiments





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4-Nor	ylphenol, branched,	ethoxylated:	
Speci		: Rat	
	cation Route	: Ingestion	
Expos Resul	sure time	: 2 Years	
Rema		: negative : Based on data	from similar materials
Roma		. Dubba on data	
amitra	az (ISO):		
Speci		: Rat	
	cation Route	: Oral	
	sure time	: 2 Years	
NOAE Resul		: > 10.18 mg/kg	body weight
Resul	l	: negative	
Speci		: Mouse	
	sure time	: 2 Years	
LOAE		: 2.3 mg/kg body	r weight
Resul		: positive	
raiye	et Organs	: Liver, Stomach	
-	oductive toxicity Jamage fertility.		
May c	-		
May c <u>Comp</u>	damage fertility.	m), light aromatic:	
May c <u>Comp</u> Solve	lamage fertility.	: Test Type: Rep	production/Developmental toxicity screening
May c <u>Comp</u> Solve	damage fertility. <u>ponents:</u> ent naphtha (petroleu	: Test Type: Rep test	production/Developmental toxicity screening
May c <u>Comp</u> Solve	damage fertility. <u>ponents:</u> ent naphtha (petroleu	: Test Type: Rep test Species: Rat	
May c <u>Comp</u> Solve	damage fertility. ponents: ent naphtha (petroleu	: Test Type: Rep test Species: Rat	ute: inhalation (vapour)
May c Comp Solve Effect	damage fertility. ponents: ent naphtha (petroleu	: Test Type: Rep test Species: Rat Application Rou Result: negativ	ute: inhalation (vapour)
May c Comp Solve Effect	damage fertility. <u>conents:</u> ent naphtha (petroleu is on fertility	 Test Type: Rep test Species: Rat Application Rou Result: negativ Test Type: Eml Species: Rat 	ute: inhalation (vapour) e oryo-foetal development
May c Comp Solve Effect	damage fertility. <u>conents:</u> ent naphtha (petroleu is on fertility	 Test Type: Rep test Species: Rat Application Rou Result: negativ Test Type: Eml Species: Rat Application Rou 	ute: inhalation (vapour) e oryo-foetal development ute: inhalation (vapour)
May c Comp Solve Effect	damage fertility. <u>conents:</u> ent naphtha (petroleu is on fertility	 Test Type: Rep test Species: Rat Application Rou Result: negativ Test Type: Eml Species: Rat 	ute: inhalation (vapour) e oryo-foetal development ute: inhalation (vapour)
May of Comp Solve Effect Effect ment	damage fertility. <u>conents:</u> ent naphtha (petroleu is on fertility is on foetal develop- az (ISO):	 Test Type: Rep test Species: Rat Application Rou Result: negativ Test Type: Eml Species: Rat Application Rou Result: negativ 	ute: inhalation (vapour) e oryo-foetal development ute: inhalation (vapour) e
May of Comp Solve Effect Effect ment	damage fertility.	 Test Type: Rep test Species: Rat Application Rou Result: negativ Test Type: Eml Species: Rat Application Rou Result: negativ Test Type: Three 	ute: inhalation (vapour) e oryo-foetal development ute: inhalation (vapour)
May of Comp Solve Effect Effect ment	damage fertility. <u>conents:</u> ent naphtha (petroleu is on fertility is on foetal develop- az (ISO):	 Test Type: Rep test Species: Rat Application Rou Result: negativ Test Type: Eml Species: Rat Application Rou Result: negativ Test Type: Thre Species: Rat 	ute: inhalation (vapour) e oryo-foetal development ute: inhalation (vapour) e ee-generation reproduction toxicity study
May of Comp Solve Effect Effect ment	damage fertility. <u>conents:</u> ent naphtha (petroleu is on fertility is on foetal develop- az (ISO):	 Test Type: Rep test Species: Rat Application Rou Result: negativ Test Type: Eml Species: Rat Application Rou Result: negativ Test Type: Three Species: Rat Application Rou 	ute: inhalation (vapour) e oryo-foetal development ute: inhalation (vapour) e ee-generation reproduction toxicity study ute: Oral
May of Comp Solve Effect Effect ment	damage fertility. <u>conents:</u> ent naphtha (petroleu is on fertility is on foetal develop- az (ISO):	 Test Type: Rep test Species: Rat Application Rou Result: negativ Test Type: Eml Species: Rat Application Rou Result: negativ Test Type: Thre Species: Rat Application Rou Fertility: NOAE 	ute: inhalation (vapour) e oryo-foetal development ute: inhalation (vapour) e ee-generation reproduction toxicity study ute: Oral L: > 4.8 mg/kg body weight
May of Comp Solve Effect Effect ment	damage fertility. <u>conents:</u> ent naphtha (petroleu is on fertility is on foetal develop- az (ISO):	 Test Type: Rep test Species: Rat Application Rou Result: negativ Test Type: Eml Species: Rat Application Rou Result: negativ Test Type: Thre Species: Rat Application Rou Fertility: NOAE 	ute: inhalation (vapour) e oryo-foetal development ute: inhalation (vapour) e ee-generation reproduction toxicity study ute: Oral
May of Comp Solve Effect Effect ment	damage fertility.	 Test Type: Rep test Species: Rat Application Rou Result: negativ Test Type: Eml Species: Rat Application Rou Result: negativ Test Type: Thre Species: Rat Application Rou Fertility: NOAE Result: No Sign 	ute: inhalation (vapour) e oryo-foetal development ute: inhalation (vapour) e ee-generation reproduction toxicity study ute: Oral L: > 4.8 mg/kg body weight ificant adverse effects were reported
May of Comp Solve Effect Effect ment	damage fertility. <u>conents:</u> ent naphtha (petroleu is on fertility is on foetal develop- az (ISO):	 Test Type: Rep test Species: Rat Application Rou Result: negative Test Type: Eml Species: Rat Application Rou Result: negative Test Type: Threas Species: Rat Application Rou Fertility: NOAE Result: No sign Test Type: Eml 	e oryo-foetal development ute: inhalation (vapour) e ee-generation reproduction toxicity study ute: Oral L: > 4.8 mg/kg body weight
May of Comp Solve Effect Effect amitra Effect	damage fertility.	 Test Type: Rep test Species: Rat Application Rou Result: negativ Test Type: Eml Species: Rat Application Rou Result: negativ Test Type: Thre Species: Rat Application Rou Fertility: NOAE Result: No Sign 	ute: inhalation (vapour) e oryo-foetal development ute: inhalation (vapour) e ee-generation reproduction toxicity study ute: Oral L: > 4.8 mg/kg body weight ificant adverse effects were reported oryo-foetal development
May of Comp Solve Effect Effect amitra Effect	damage fertility.	 Test Type: Rep test Species: Rat Application Rou Result: negativ Test Type: Eml Species: Rat Application Rou Result: negativ Test Type: Three Species: Rat Application Rou Fertility: NOAE Result: No sign Test Type: Eml Species: Rat Application Rou Fertility: NOAE Test Type: Eml Species: Rat Application Rou Developmental 	ute: inhalation (vapour) e oryo-foetal development ute: inhalation (vapour) e ee-generation reproduction toxicity study ute: Oral L: > 4.8 mg/kg body weight ificant adverse effects were reported oryo-foetal development





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			Species: Rabbin Application Rou Developmental	
Bis(2	,6-diisopropylphenyl)	carb	odiimide:	
-	s on fertility	:	Test Type: Rep test Species: Rat Application Rou Method: OECD Result: positive Test Type: Fert Species: Rat	Test Guideline 421 lity
			Application Rou Result: positive	
Effect ment	s on foetal develop-	:	test Species: Rat Application Rou	Test Guideline 421
Repro sessn	oductive toxicity - As- nent	:		of adverse effects on sexual function and fert imal experiments.
	- single exposure cause drowsiness or diz	zzine	SS.	
<u>Comp</u>	oonents:			
Solve	ent naphtha (petroleur	m), li	ght aromatic:	
Asses	ssment	:	May cause drow	vsiness or dizziness.
STOT	- repeated exposure			
May c	• •	ıs (Ki	dney, Heart, Gas	trointestinal tract, Lymph nodes) through pro-
Comp	oonents:			
amitr	az (ISO):			
	et Organs ssment	:	Liver, Central n May cause dam exposure.	ervous system age to organs through prolonged or repeated

Bis(2,6-diisopropylphenyl)carbodiimide:

Exposure routes : Ingestion



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Targo	t Organs	· Kidnov Hoort (Contraintenting tract Lymph pades
Asses	t Organs sment		Gastrointestinal tract, Lymph nodes e to organs through prolonged or repeated
Repea	ated dose toxicity		
<u>Comp</u>	onents:		
Solve	nt naphtha (petrole	um), light aromatic:	
Specie		: Rat	
LOAE		: 500 mg/kg	
	ation Route ure time	: Ingestion : 28 Days	
Слроз		. 20 Days	
4-Non	ylphenol, branched	, ethoxylated:	
Specie		: Rat	
LOAE		: > 100 mg/kg	
	ation Route	: Ingestion	
Expos Rema	ure time	: 90 Days	rom similar materials
Rema	110	. Dased on data	Tom similar materials
amitra	az (ISO):		
Specie		: Mouse	
NOAE		: 3 mg/kg	
	ation Route ure time	: Oral	
	t Organs	: 90 Days : Liver	
-	-	. Liver	
Specie		: Dog	
NOAE	-	: 0.25 mg/kg	
	ation Route ure time	: Oral : 90 Days	
	t Organs	: Central nervous	system, Liver
	3		
-	6-diisopropylpheny	l)carbodiimide:	
Specie		: Rat	
NOAE LOAE		: 4 mg/kg : 16 mg/kg	
	∟ ation Route	: Ingestion	
	ure time	: 28 Days	
Metho	d	: OECD Test Gu	deline 407
Asnir	ation toxicity		
-	e fatal if swallowed a	nd enters airwavs.	
Produ			
FIUUU	10L.		



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Components:

Solvent naphtha (petroleum), light aromatic:

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

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 (Chronic 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, et	tho	xylated:
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	:	EC50 (Ceriodaphnia dubia (water flea)): > 0.1 - 1 mg/l

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aqua	tic invertebrates		Exposure time: 48 Remarks: Based	8 h on data from similar materials
Toxic plant	sity to algae/aquatic s	:	mg/l Exposure time: 72 Method: OECD T	um capricornutum (green algae)): > 1 - 10 2 h est Guideline 201 on data from similar materials
			Exposure time: 72 Method: OECD T	
Toxic icity)	sity to fish (Chronic tox-	:	Exposure time: 10	atipes (Japanese medaka)): > 0.1 - 1 mg/l 00 d on data from similar materials
	tic invertebrates (Chron-	:	mg/l Exposure time: 28	is bahia (opossum shrimp)): > 0.001 - 0.01 8 d on data from similar materials
amiti	raz (ISO):			
	sity to fish	:	LC50 (Lepomis m Exposure time: 96	nacrochirus (Bluegill sunfish)): 0.45 mg/l 6 h
	tity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 0.035 mg/l 8 h
	sity to algae/aquatic s	•	NOEC (Pseudoki mg/l Exposure time: 9 ⁻	rchneriella subcapitata (green algae)): 0.04 1 h
Toxic icity)	sity to fish (Chronic tox-	:	NOEC (Pimephal mg/l Exposure time: 32	es promelas (fathead minnow)): 0.00148 2 d
	city to daphnia and other tic invertebrates (Chron- cicity)	:	NOEC (Daphnia i Exposure time: 2 ⁻	magna (Water flea)): 0.0011 mg/l 1 d
Bis(2	2,6-diisopropylphenyl)c	arb	odiimide:	
Toxic	sity to fish	:	Exposure time: 90 Method: OECD T	chus mykiss (rainbow trout)): > 0.1 mg/l 6 h est Guideline 203 city at the limit of solubility
	city to daphnia and other tic invertebrates	:	Exposure time: 48 Method: OECD T	nagna (Water flea)): > 1 mg/l 8 h est Guideline 202 city at the limit of solubility



sion	Revision Date: 06.04.2024		DS Number: 29235-00016	Date of last issue: 30.09.2023 Date of first issue: 11.07.2017
Toxici plants	ity to algae/aquatic	:	Exposure time: Method: OECD	desmus subspicatus (green algae)): > 1 n 72 h Test Guideline 201 oxicity at the limit of solubility
			Exposure time:	desmus subspicatus (green algae)): > 1 n 72 h Test Guideline 201
Toxici	ty to microorganisms	:	EC50: > 1,000 Exposure time: Method: OECD	
Persi	stence and degradat	oility		
<u>Comp</u>	oonents:			
Solve	ent naphtha (petroleu	ım), li	ght aromatic:	
Biode	gradability	:	Result: Inheren Biodegradation	tly biodegradable.
			Exposure time:	
4-Nor	winhenol branched	etho	Exposure time:	
	nylphenol, branched , gradability	, etho :	Exposure time: xylated: Result: Not read	
Biode	gradability	:	Exposure time: xylated: Result: Not read Remarks: Base	25 d dily biodegradable.
Biode Bis(2	••	:	Exposure time: xylated: Result: Not read Remarks: Base odiimide: Result: Not read Biodegradation Exposure time:	25 d dily biodegradable. d on data from similar materials dily biodegradable. : 3 %
Biode Bis(2 Biode	gradability ,6-diisopropylphenyl	: I)carb :	Exposure time: xylated: Result: Not read Remarks: Base odiimide: Result: Not read Biodegradation Exposure time:	25 d dily biodegradable. d on data from similar materials dily biodegradable. : 3 % 28 d
Biode Bis(2) Biode	gradability , 6-diisopropylphenyl gradability	: I)carb :	Exposure time: xylated: Result: Not read Remarks: Base odiimide: Result: Not read Biodegradation Exposure time:	25 d dily biodegradable. d on data from similar materials dily biodegradable. : 3 % 28 d
Biode Bis(2) Biode Biode	gradability ,6-diisopropylphenyl gradability ccumulative potentia	: I)carb :	Exposure time: xylated: Result: Not read Remarks: Base odiimide: Result: Not read Biodegradation Exposure time: Method: OECD	25 d dily biodegradable. d on data from similar materials dily biodegradable. : 3 % 28 d
Biode Bis(2, Biode Biode Bioac <u>Comp</u> 4-Nor Partiti	gradability ,6-diisopropylphenyl gradability ccumulative potentia <u>ponents:</u>	l)carb : I	Exposure time: xylated: Result: Not read Remarks: Base odiimide: Result: Not read Biodegradation Exposure time: Method: OECD	25 d dily biodegradable. d on data from similar materials dily biodegradable. : 3 % 28 d
Biode Bis(2, Biode Biode Biode Comp Partiti octand amitra	gradability ,6-diisopropylphenyl gradability ccumulative potentia <u>ponents:</u> nylphenol, branched, on coefficient: n- ol/water az (ISO):	l)carb : I	Exposure time: xylated: Result: Not read Remarks: Base odiimide: Result: Not read Biodegradation Exposure time: Method: OECD xylated: log Pow: < 4	25 d dily biodegradable. d on data from similar materials dily biodegradable. : 3 % 28 d Test Guideline 301B
Biode Bis(2, Biode Biode Biode Comp Partiti octand amitra	gradability ,6-diisopropylphenyl gradability ccumulative potentia <u>ponents:</u> nylphenol, branched, on coefficient: n- ol/water	l)carb : I	Exposure time: xylated: Result: Not read Remarks: Base odiimide: Result: Not read Biodegradation Exposure time: Method: OECD xylated: log Pow: < 4 Species: Lepon	25 d dily biodegradable. d on data from similar materials dily biodegradable. : 3 % 28 d
Biode Bis(2) Biode Biode Biode Comp A-Nor Partiti octant Bioac Partiti	gradability ,6-diisopropylphenyl gradability ccumulative potentia <u>ponents:</u> nylphenol, branched, on coefficient: n- ol/water az (ISO):	l)carb : I	Exposure time: xylated: Result: Not read Remarks: Base odiimide: Result: Not read Biodegradation Exposure time: Method: OECD xylated: log Pow: < 4 Species: Lepon	25 d dily biodegradable. d on data from similar materials dily biodegradable. : 3 % 28 d Test Guideline 301B
Biode Bis(2, Biode Biode Biode Comp A-Nor Partiti octant Bioac Partiti octant	gradability 6-diisopropylphenyl gradability ccumulative potentia ponents: nylphenol, branched , on coefficient: n- ol/water az (ISO): cumulation on coefficient: n-	l)carb : I , etho : :	Exposure time: xylated: Result: Not read Remarks: Base odiimide: Result: Not read Biodegradation Exposure time: Method: OECD xylated: log Pow: < 4 Species: Lepon Bioconcentratio log Pow: 5.5	25 d dily biodegradable. d on data from similar materials dily biodegradable. : 3 % 28 d Test Guideline 301B

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Amitraz (5%) Formulation

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	ition coefficient: n- nol/water	:	log Pow: > 6.2	
Mob	ility in soil			
<u>Com</u>	ponents:			
Distr	raz (ISO): ibution among environ-	:	log Koc: 3.3	
Othe	tal compartments er adverse effects			
No d	lata available			
SECTION	N 13. DISPOSAL CONSI	DEF	RATIONS	
Disp	oosal methods			
•	te from residues	:		waste into sewer.
Cont	taminated packaging	:		ordance with local regulations. should be taken to an approved waste han- cling 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	:	0.1.0200
Proper shipping name	:	, ,
Class	÷	3
Packing group	-	
Labels	-	3
Environmentally hazardous	:	no
IATA-DGR		
UN/ID No.	:	UN 3295
Proper shipping name	:	Hydrocarbons, liquid, n.o.s.
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo	:	366
aircraft)		
Packing instruction (passen-	:	355
ger aircraft)		
IMDG-Code		
UN number		UN 3295
Proper shipping name	:	HYDROCARBONS, LIQUID, N.O.S.
	•	(amitraz (ISO))



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Class	:	3
Packing group	:	Ш
Labels	:	3
EmS Code	:	F-E, S-D
Marine pollutant	:	yes

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

National Regulations

ADG		
UN number	:	UN 3295
Proper shipping name	:	HYDROCARBONS, LIQUID, N.O.S.
Class	:	3
Packing group	:	III
Labels	:	3
Hazchem Code	:	3Y
Environmentally hazardous	:	no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmer ture	ntal regulations/legislations/legislation	on specific for the substance or mix-		
Therapeutic Goods (Poisons : Standard) Instrument	Schedule 7 (Please use the original publication to check for specific uses, specific conditions or threshold limits that might apply for this chemical)			
Prohibition/Licensing Requireme	ents :	There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.		
The components of this produ	•	llowing inventories:		
AICS :	not determined			

DSL	: not det	ermined
IECSC	: not det	ermined

SECTION 16: ANY OTHER RELEVANT INFORMATION

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	Sources of key data used to compile the Safety Data Sheet		:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/		
	Date format		:	dd.mm.yyyy		
	Full text of other abbreviati		ons			
	ACGIH AU OE		:		eshold Limit Values (TLV) ace Exposure Standards for Airborne Con-	
	ACGIH AU OE	/ TWA L / TWA	:	8-hour, time-weig Exposure standar	hted average d - 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; 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





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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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