

Amitraz (5%) Formulation

Versior 3.1			S Number: 29226-00015	Date of last issue: 2023/04/04 Date of first issue: 2017/07/11
1. PRO	DUCT AND COMPANY IDE	NT	IFICATION	
Pr	oduct name	:	Amitraz (5%) Foi	mulation
Ма	anufacturer or supplier's d	etai	ls	
Co	ompany	:	MSD	
Ac	ldress	:	126 E. Lincoln Av Rahway, New Je	venue ersey U.S.A. 07065
Те	lephone	:	908-740-4000	
Er	nergency telephone number	:	1-908-423-6000	
E-	mail address	:	EHSDATASTEW	/ARD@msd.com
Re	ecommended use of the ch	em	ical and restriction	ons on use
	ecommended use estrictions on use	:	Veterinary produ Not applicable	ct

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
Short-term (acute) aquatic hazard	:	Category 1



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Long haza	g-term (chronic) aquatic ard	: Category 1	
GHS	S label elements		
Haza	ard pictograms		
Sign	al word	: Danger	v v v
Haza	ard statements	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.
Prec	autionary statements	P202 Do not h and understoo P210 Keep aw No smoking. P233 Keep co P241 Use exp ment. P242 Use only P243 Take pre P260 Do not b P264 Wash sk P271 Use only P273 Avoid re	vay from heat/ sparks/ open flames/ hot surfaces intainer tightly closed. losion-proof electrical/ ventilating/ lighting equip / non-sparking tools. ecautionary measures against static discharge. preathe mist or vapours. kin thoroughly after handling. / outdoors or in a well-ventilated area. lease to the environment. otective gloves/ protective clothing/ eye protec-
		CENTER/ doc P303 + P361 - Iy all contamin P304 + P340 - and keep com doctor if you fe P305 + P351 -	 + P353 IF ON SKIN (or hair): Take off immediat lated clothing. Rinse skin with water/ shower. + P312 IF INHALED: Remove person to fresh a fortable for breathing. Call a POISON CENTER



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		attention. P331 Do NOT i P332 + P313 If tion. P337 + P313 If tention.	exposed or concerned: Get medical advice/ induce vomiting. skin irritation occurs: Get medical advice/ atten- eye irritation persists: Get medical advice/ at- ake off contaminated clothing and wash it before
		Storage: P403 + P235 S P405 Store loc	tore in a well-ventilated place. Keep cool. ked 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.

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 -< 25
amitraz (ISO)	33089-61-1	>= 2.5 -< 10
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 for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention.



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			Wash clothing be	fore reuse			
In ca	ase of eye contact	:	Thoroughly clean In case of contac for at least 15 min If easy to do, rem	shoes before reuse. t, immediately flush eyes with plenty of water nutes. ove contact lens, if worn.			
lf sw	If swallowed		 Get medical attention. 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. 				
	t important symptoms effects, both acute and yed	 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 restance. 		allowed and enters airways. tion. ye irritation. iness or dizziness. ic defects. er. lity.			
Prot	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).				
Note	es to physician	:	Treat symptomat	cally and supportively.			
5. FIREF	IGHTING MEASURES						
Suita	able extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical				
Uns med	uitable extinguishing lia	:	High volume wate	er jet			
	cific hazards during fire-	:	fire. Flash back possil Vapours may forr	d water stream as it may scatter and spread ble over considerable distance. n explosive mixtures with air. bustion products may be a hazard to health.			
Haz ucts	ardous combustion prod-	:	Carbon oxides Nitrogen oxides (NOx)			
Spe ods	cific extinguishing meth-	:	cumstances and Use water spray Remove undama so.	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do			
	cial protective equipment irefighters	:		e, wear self-contained breathing apparatus. tective equipment.			

6. ACCIDENTAL RELEASE MEASURES



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	tive equ	al precautions, protec- upment and emer- procedures	:			
	Environmental precautions		:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil e of contaminated wash water. should be advised if significant spillages	
	Methods and materials for : containment and cleaning up		:	Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapours/mists with a water spray jet. For large spills, provide dyking or other appropriate contain ment to keep material from spreading. If dyked material ca be pumped, store recovered material in appropriate contai Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regard certain local or national requirements.		
7. H		IG AND STORAGE				
	Technic	cal measures	:		neasures under EXPOSURE SONAL PROTECTION section.	
	Local/T	otal ventilation	:	If sufficient ventila ventilation.	oof electrical, ventilating and lighting equip-	
	Advice on safe handling :		Handle in accorda	st or vapours.		

Non-sparking tools should be used. Keep container tightly closed.

other ignition sources. No smoking.

Keep away from heat, hot surfaces, sparks, open flames and

Take care to prevent spills, waste and minimize release to the

Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product.

sessment



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Conditions for safe storage Materials to avoid	Store locked up Keep tightly clos Keep in a cool, Store in accorda Keep away from Do not store wit Self-reactive su Organic peroxid Oxidizing agent Flammable gas Pyrophoric liqui Pyrophoric solid	sed. well-ventilated place. ance with the particular national regulations. In heat and sources of ignition. In the following product types: bstances and mixtures les s es ds ds bstances and mixtures

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

	•			
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Solvent naphtha (petroleum), light aromatic	64742-95-6	TŴA	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

Components with workplace control parameters

Engineering measures :	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con- tainment devices). Minimize open handling.
	Use explosion-proof electrical, ventilating and lighting equip- ment.
Personal protective equipment	t
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec-

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		sure assessment demonstrates exposures outside the red
		ommended guidelines, use respiratory protection.
	:	Combined particulates and organic vapour type

Filter type Hand protection



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Ma	aterial	:	Chemical-resistar	nt gloves			
Re	emarks	:	: Consider double gloving. Take note that the product is flam-				
Eye protection		:	 mable, which may impact the selection of hand protection. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, 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. 				
Skin and body protection		:	: Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.				
Hygiene measures		:	If exposure to che eye flushing syste ing place. When using do no Wash contaminat The effective ope engineering contr appropriate dego	emical is likely during typical use, provide ems and safety showers close to the work- ot eat, drink or smoke. ed clothing before re-use. ration of a facility should include review of ols, proper personal protective equipment, wning and decontamination procedures, e monitoring, medical surveillance and the			
9. PHYSIC	AL AND CHEMICAL F	PROP	ERTIES				
Арреа	arance	:	liquid				
Colou	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
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	r explosion limit / Upper nability limit	:	7 %(V)	
	Lower explosion limit / Lower flammability limit		0.8 %(V)	
Vapo	ur pressure	:	No data available	e
Relati	ve vapour density	:	No data available	e
Relati	ve density	:	No data available	e
Densi	ty	:	No data available	e
	Solubility(ies) Water solubility		emulsifiable	
	on coefficient: n- ol/water	:	No data available	e
	ignition temperature	:	No data available	e
Decor	mposition temperature	:	No data available	e
	Viscosity Viscosity, kinematic		No data available	e
Explo	Explosive properties		Not explosive	
Oxidiz	Oxidizing properties		The substance o	r mixture is not classified as oxidizing.
Molec	cular weight	:	Not applicable	
Partic	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. 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.

11. TOXICOLOGICAL INFORMATION



rsion	Revision Date: 2023/09/30		0S Number: 29226-00015	Date of last issue: 2023/04/04 Date of first issue: 2017/07/11	
Inforr	nation on likely routes	of :	Inhalation Skin contact		
expos	Sure		Ingestion Eye contact		
	e toxicity				
Not c Prod	lassified based on ava	ailable	information.		
	e oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method		
Com	ponents:				
Solve	ent naphtha (petroleu	um), li	ght aromatic:		
Acute	e oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg	
Acute	e inhalation toxicity	:	LC50 (Rat): > 5		
			Exposure time: Test atmosphe		
Acute	e dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg	
4-No	nylphenol, branched	, etho	xylated:		
Acute	e oral toxicity	:		00 - 2,000 mg/kg d on data from similar materials	
Acute	e dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg	
amitr	az (ISO):				
Acute	e oral toxicity	:	LD50 (Rat): > 4	00 mg/kg	
			LD50 (Mouse):	> 1,085 mg/kg	
			LD50 (Guinea p	big): > 400 mg/kg	
Acute	e inhalation toxicity	:	Remarks: No d	ata available	
Acute	e dermal toxicity	:	LD50 (Rat): > 1	,600 mg/kg	
Bis(2	.,6-diisopropylpheny	l)carb	odiimide:		
Acute	e oral toxicity	:		00 - 2,000 mg/kg Test Guideline 423	
Acute	e dermal toxicity	:		,000 mg/kg Test Guideline 402 ne substance or mixture has no acute derma	



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Skin corrosion/irritation

Causes skin irritation.

Components:

Solvent naphtha (petroleum), light aromatic:

Rabbit
OECD Test Guideline 404
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.



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Respiratory sensitisation

Not classified based on available information.

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

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 spermatogonia Species: Mouse Application Route: Intraperitoneal injection Result: positive Germ cell mutagenicity -Positive result(s) from in vivo heritable germ cell mutagenicity : Assessment tests in mammals





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4-Nor	ylphenol, branched,	ethoxylated:	
Geno	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
			NA damage and repair, unscheduled DNA syn nmalian cells (in vitro) tive
amitra	az (ISO):		
Geno	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		Test Type: Ir Result: nega	vitro mammalian cell gene mutation test tive
		Test Type: C Result: nega	hromosome aberration test in vitro tive
			NA damage and repair, unscheduled DNA syn nmalian cells (in vitro) tive
Bis(2	,6-diisopropylphenyl)	carbodiimide:	
Geno	toxicity in vitro		acterial reverse mutation assay (AMES) CD Test Guideline 471 tive
			hromosome aberration test in vitro CD Test Guideline 473 tive
			r vitro mammalian cell gene mutation test CD Test Guideline 476 tive
	nogenicity ause cancer.		
Comp	oonents:		
Solve	ent naphtha (petroleu	m), light aromatic:	
Speci		: Mouse	
	cation Route sure time	: Skin contact : 2 Years	
Resul		: positive	
Carcir ment	nogenicity - Assess-	: Sufficient evi	dence of carcinogenicity in animal experiment
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4-No	nylphenol, branched,	ethoxylate	d:	
Spec	ies	: Rat		
	cation Route	: Inges		
•	sure time	: 2 Yea		
Resu		: negat		
Rema	arks	: Base	d on data i	from similar materials
amitr	az (ISO):			
Spec		: Rat		
	cation Route	: Oral		
•	sure time	: 2 Yea		
NOA				oody weight
Resu	IL	: negat	ive	
Spec		: Mous		
	sure time	: 2 Yea		
LOAE			g/kg body	weight
Resu	lt et Organs	: positi	ve Stomach	
Ū	5			
Repr	oductive toxicity			
-	damage fertility.			
-				
Com	ponents:			
Solve	ent naphtha (petroleu	m), light are	omatic:	
Effec	ts on fertility	: Test	Type: Rep	roduction/Developmental toxicity screeni
	·····	test	7 1 1	
		Speci	ies: Rat	
				ite: inhalation (vapour)
		Resu	It: negative	9
	ts on foetal develop-			oryo-foetal development
ment			ies: Rat	iter inholation (venerit)
			lt: negative	ite: inhalation (vapour) e
amitr	az (ISO):			
	ts on fertility	· Toot	Tuno: Thre	e-generation reproduction toxicity study
LIIEC	is off fertility		ies: Rat	se-generation reproduction toxicity study
			cation Rou	ite: Oral
				_: > 4.8 mg/kg body weight
				ificant adverse effects were reported
F ″			-	
	ts on foetal develop-			oryo-foetal development
ment			ies: Rat	ite: Oral
			cation Rou	Toxicity: NOAEL: 3 mg/kg body weight
				gnificant adverse effects were reported
		Reille	11N3. INU SI	grinicarii auverse eriecis were repulled





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			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 ility ite: Ingestion
Effect ment	s on foetal develop-	:	Test Type: Rep test Species: Rat Application Rou	roduction/Developmental toxicity screening ite: Ingestion Test Guideline 421
Repro sessn	oductive toxicity - As- nent	:		of adverse effects on sexual function and fer nimal 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.
May c	- repeated exposure cause damage to organ d or repeated exposure	ıs (Ki	dney, Heart, Gas	strointestinal tract, Lymph nodes) through pro
Comp	oonents:			
amitra	az (ISO):			
	et Organs ssment	:	Liver, Central n May cause dan exposure.	ervous system hage to organs through prolonged or repeated

Bis(2,6-diisopropylphenyl)carbodiimide:

Exposure routes : Ingestion



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	t Organs ssment		Gastrointestinal tract, Lymph nodes e to organs through prolonged or repeate
Repe	ated dose toxicity		
Comp	oonents:		
Solve	ent naphtha (petrole	um), light aromatic:	
Speci		: Rat	
LOAE		: 500 mg/kg	
	ation Route	: Ingestion	
Expos	sure time	: 28 Days	
4-Nor	ylphenol, branched	, ethoxylated:	
Speci	es	: Rat	
LÖAE		: > 100 mg/kg	
Applic	ation Route	: Ingestion	
	sure time	: 90 Days	
Rema	ırks	: Based on data	rom similar materials
amitra	az (ISO):		
Speci	es	: Mouse	
NOAE		: 3 mg/kg	
	ation Route	: Oral	
	sure time	: 90 Days	
	t Organs	: Liver	
Speci		: Dog	
NOAE		: 0.25 mg/kg	
	ation Route	: Oral	
•	sure time	: 90 Days	
Targe	t Organs	: Central nervous	s system, Liver
Bis(2,	,6-diisopropylpheny	l)carbodiimide:	
Speci		: Rat	
NOAE		: 4 mg/kg	
LOAE		: 16 mg/kg	
	ation Route	: Ingestion	
•	sure time	: 28 Days	
Metho	od	: OECD Test Gu	deline 407
Aspir	ation toxicity		
May b	e fatal if swallowed a	nd enters airways.	
Produ	<u>uct:</u>	-	
	_		In aspiration toxicity hazards or has to be



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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

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	ho	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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	aquatic	invertebrates		Exposure time: 48 Remarks: Based o	h on data from similar materials
	Toxicity to algae/aquatic plants		:	mg/l Exposure time: 72 Method: OECD Te	
				Exposure time: 72 Method: OECD Te	
		or (Acute aquatic tox-	:	1	
	icity) Toxicity icity)	to fish (Chronic tox-	:	Exposure time: 10	tipes (Japanese medaka)): > 0.1 - 1 mg/l 00 d on data from similar materials
		invertebrates (Chron-	:	mg/l Exposure time: 28	is bahia (opossum shrimp)): > 0.001 - 0.01 3 d on data from similar materials
	M-Facto toxicity)	or (Chronic aquatic)	:	10	
	amitraz	z (ISO):			
	Toxicity	to fish	:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 0.45 mg/l Sh
		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-Facto icity)	or (Acute aquatic tox-	:	10	
		v 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 I d
		or (Chronic aquatic	:	10	
	Bis(2,6	-diisopropylphenyl)c	arb	odiimide:	
	Toxicity	v to fish	:	LC50 (Oncorhync	hus mykiss (rainbow trout)): > 0.1 mg/l



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				96 h Test Guideline 203 kicity at the limit of solubility
	ity to daphnia and other ic invertebrates	:	Exposure time: 4 Method: OECD	magna (Water flea)): > 1 mg/l 48 h Test Guideline 202 kicity at the limit of solubility
Toxic plants	ity to algae/aquatic	:	Exposure time: 7 Method: OECD	esmus subspicatus (green algae)): > 1 mg/ 72 h Test Guideline 201 kicity at the limit of solubility
			Exposure time: 7	lesmus subspicatus (green algae)): > 1 mg/ 72 h Test Guideline 201
Toxic	ity to microorganisms	:	EC50: > 1,000 n Exposure time: 3 Method: OECD	
Persi	stence and degradabil	ity		
Com	oonents:			
	ent naphtha (petroleum egradability	n), li :	-	
4-Noi	nylphenol, branched, e	tho	xylated:	
Biode	gradability	:		lily biodegradable. I on data from similar materials
Bis(2	,6-diisopropylphenyl)c	arb	odiimide:	
Biode	gradability	:	Biodegradation: Exposure time: 2	
Bioad	ccumulative potential			
<u>Com</u>	oonents:			
Partiti	nylphenol, branched, e ion coefficient: n-	tho :	xylated: log Pow: < 4	
	ol/water az (ISO):			
	-			



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Bioac	ccumulation	:		nis macrochirus (Bluegill sunfish) n factor (BCF): 1,333	
	Partition coefficient: n- octanol/water		log Pow: 5.5		
Bis(2	,6-diisopropylphenyl)	carb	odiimide:		
Bioac	cumulation	:	Bioconcentratio	n factor (BCF): > 500	
	Partition coefficient: n- octanol/water		log Pow: > 6.2		
Mobi	lity in soil				
Com	ponents:				
amitr	az (ISO):				
Distri			log Koc: 3.3		
Othe	r adverse effects				
No da	ata available				
13. DISPC	SAL CONSIDERATIO	NS			
Dispo	osal methods				
-	e from residues	:	Do not dispose	of waste into sewer.	

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.
	Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or ex- pose 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.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3295
Proper shipping name	:	HYDROCARBONS, LIQUID, N.O.S.
Class	:	3
Packing group	:	III
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



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aircra Packi	ng instruction (cargo	:	Flammable Liquid 366 355	ds
UN n	-Code umber er shipping name	:		IS, LIQUID, N.O.S.
Label EmS	ng group s	:	(amitraz (ISO)) 3 III 3 F-E, S-D yes	
Trans	•	-	Annex II of MARP	OL 73/78 and the IBC Code

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered	:	Not applicable
	•	i tot upplioublo

Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use	:	Not applicable
Prohibited substances	:	Not applicable
Restricted substances	:	Not applicable

Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials

Type of hazardous materials subject to distribution and	:	Not applicable
control, Annex I		

Type of hazardous materials subject to distribution and : Not applicable



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contro	ol, Annex II			
		oduo	-	the following inventories:
AICS		:	not determined	
DSL		:	not determined	
IECS	С	:	not determined	
16. OTHE	R INFORMATION			
Revis	sion Date	:	2023/09/30	
Furth	ner information			
	oile the Safety Data	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/
Date	format	:	yyyy/mm/dd	
Full t	ext of other abbreviati	ions		
ACG	IH	:	USA. ACGIH Thr	eshold Limit Values (TLV)
ACGI	IH / TWA	:	8-hour, time-weig	ghted 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 Tem-



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perature; 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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