

Versio	on Revisio 2023/0	on Date: 99/30		S Number: 71618-00002	Date of last issue: 2023/02/23 Date of first issue: 2023/02/23
1. PR	ODUCT AND	COMPANY IE	DENT	IFICATION	
F	Product name		:	Amitraz (12.5%)	EC Liquid Formulation
	<b>lanufacturer</b> Company	or supplier's	detai :	<b>ls</b> MSD	
A	ddress		:	126 E. Lincoln Av Rahway, New Je	venue vrsey U.S.A. 07065
Т	elephone		:	908-740-4000	
E	Emergency tele	ephone numbe	ər:	1-908-423-6000	
E	-mail address		:	EHSDATASTEW	/ARD@msd.com
F	Recommende	d use of the c	chem	ical and restriction	ons on use
-	Recommendeo Restrictions on		:	Veterinary produ Not applicable	ct

#### 2. HAZARDS IDENTIFICATION

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

#### GHS label elements



Version 1.1	Revision Date: 2023/09/30	SDS Number: 11171618-00002	Date of last issue: 2023/02/23 Date of first issue: 2023/02/23
Haza	rd pictograms		
Signa	al word	: Danger	
Haza	rd statements	H318 Causes H336 May cau H360F May da H373 May cau system, Kidney through prolon	atal if swallowed and enters airways. serious eye damage. se drowsiness or dizziness.
Preca	autionary statements	Prevention:	
		P202 Do not h and understoo P260 Do not b P264 Wash sk P270 Do not e P271 Use only P273 Avoid rel	reathe mist or vapours. in thoroughly after handling. at, drink or smoke when using this product. outdoors or in a well-ventilated area. ease to the environment. otective gloves/ protective clothing/ eye protec-
		CENTER/ doct P304 + P340 + and keep comf doctor if you fe P305 + P351 + water for sever and easy to do CENTER/ doct P308 + P313 I attention.	<ul> <li>P312 IF INHALED: Remove person to fresh a fortable for breathing. Call a POISON CENTER tel unwell.</li> <li>P338 + P310 IF IN EYES: Rinse cautiously wire ral minutes. Remove contact lenses, if present b. Continue rinsing. Immediately call a POISON for.</li> <li>F exposed or concerned: Get medical advice/ induce vomiting.</li> </ul>
		Storage: P405 Store loc	ked up.
		Disposal:	
		-	of contents/ container to an approved waste



Version	Revision Date:	SDS Number:	Date of last issue: 2023/02/23
1.1	2023/09/30	11171618-00002	Date of first issue: 2023/02/23

#### Other hazards which do not result in classification

Repeated exposure may cause skin dryness or cracking.

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Hydrocarbons, C10, aromatics, <1% naphtha-	64742-94-5	>= 60 -<= 100
lene		
Nonylphenol, ethoxylated	9016-45-9	>= 10 -< 25
amitraz (ISO)	33089-61-1	>= 10 -< 25
Bis(2,6-diisopropylphenyl)carbodiimide	2162-74-5	>= 1 -< 2.5

#### 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.
If swallowed	:	If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control centre immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	Harmful if swallowed. May be fatal if swallowed and enters airways. Causes serious eye damage. May cause drowsiness or dizziness. May damage fertility. May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact may dry skin and cause irrita- tion.
Protection of first-aiders	:	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).
Notes to physician	:	Treat symptomatically and supportively.



Version	Revision Date:	SDS Number:	Date of last issue: 2023/02/23
1.1	2023/09/30	11171618-00002	Date of first issue: 2023/02/23

#### **5. FIREFIGHTING MEASURES**

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx)
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer- gency procedures	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions :	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for : containment and cleaning up	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. 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 regarding certain local or national requirements.

#### 7. HANDLING AND STORAGE



Version 1.1	Revision Date: 2023/09/30	SDS Number: 11171618-00002	Date of last issue: 2023/02/23 Date of first issue: 2023/02/23				
Tech	nical measures		: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.				
Local	/Total ventilation		tilation is unavailable, use with local exhaust				
Advic	e on safe handling	Do not breathe Do not swallow Do not get in e Wash skin thor Handle in acco practice, based sessment Keep containe Do not eat, drir	ves. oughly after handling. rdance with good industrial hygiene and safety d on the results of the workplace exposure as-				
Cond	itions for safe storage	Store locked up Keep tightly clo Keep in a cool,					
Mater	rials to avoid		th the following product types:				

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Hydrocarbons, C10, aromatics, <1% naphthalene	64742-94-5	NAB (Mist)	5 mg/m3	ID OEL
		PSD (Mist)	10 mg/m3	ID OEL
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
amitraz (ISO)	33089-61-1	TWA	10 µg/m3 (OEB 3)	Internal
		Wipe limit	1250 µg/100 cm <sup>2</sup>	Internal

Engineering measures

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



Version 1.1	Revision Date: 2023/09/30	-	S Number: 71618-00002	Date of last issue: 2023/02/23 Date of first issue: 2023/02/23		
Perso	onal protective equip	ment				
Resp	Respiratory protection		: If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.			
	lter type I protection	:	Combined partic	ulates and organic vapour type		
M	aterial	:	Chemical-resista	int gloves		
	Remarks Eye protection		Consider double gloving. 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	Skin and body protection		task being perfor posable suits) to	garments should be used based upon the med (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. degowning techniques to remove potentially		
Hygie	Hygiene measures		If exposure to ch eye flushing syst ing place. When using do n Wash contamina The effective ope engineering cont appropriate dego	emical is likely during typical use, provide tems and safety showers close to the work- not eat, drink or smoke. Inted clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, e monitoring, medical surveillance and the		

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	clear
		yellow
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available



Vers 1.1	sion	Revision Date: 2023/09/30		S Number: 71618-00002	Date of last issue: 2023/02/23 Date of first issue: 2023/02/23
	Flash p	point	:	No data available	
	Evapor	ation rate	:	No data available	)
	Flamm	ability (solid, gas)	:	Not applicable	
	Flamm	ability (liquids)	:	No data available	)
		explosion limit / Upper ability limit	:	No data available	)
		explosion limit / Lower ability limit	:	No data available	)
	Vapour	pressure	:	No data available	9
	Relativ	e vapour density	:	No data available	)
	Relativ	e density	:	No data available	9
	Density	/	:	No data available	)
	Solubili Wat	ity(ies) ter solubility	:	No data available	9
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	)
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	No data available	9
	Explosi	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Molecu	ılar weight	:	No data available	
	Particle	e size	:	Not applicable	

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

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	Can react with strong oxidizing agents.
tions		
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Possibility of hazardous reac- tions Conditions to avoid	:	Can react with strong oxidizing agents. None known.



Version 1.1	Revision Date: 2023/09/30		9S Number: 171618-00002	Date of last issue: 2023/02/23 Date of first issue: 2023/02/23
	zardous decomposition	:	No hazardous d	ecomposition products are known.
11. TO)	(ICOLOGICAL INFORMAT	101	N	
	ormation on likely routes of posure	:	Inhalation Skin contact Ingestion Eye contact	
	ute toxicity			
	rmful if swallowed.			
	oduct: ute oral toxicity	:	Acute toxicity est Method: Calculat	imate: 1,491 mg/kg ion method
<u>Co</u>	mponents:			
Ну	drocarbons, C10, aromati	cs,	<1% naphthalen	e:
Ac	ute oral toxicity	:		000 mg/kg Test Guideline 420 on data from similar materials
Ac	ute inhalation toxicity	:		h
Ac	ute dermal toxicity	:	Method: OECD T Assessment: The toxicity	2,000 mg/kg Test Guideline 402 e substance or mixture has no acute dermal on data from similar materials
	nylphenol, ethoxylated: ute oral toxicity	:	LD50 (Rat): 500	- 2,000 mg/kg
am	itraz (ISO):			
	ute oral toxicity	:	LD50 (Rat): > 40	0 mg/kg
			LD50 (Mouse): >	1,085 mg/kg
			LD50 (Guinea pi	g): > 400 mg/kg
Ac	ute inhalation toxicity	:	Remarks: No dat	
	ute dermal toxicity		LD50 (Rat): > 1,6	
AU	ato dermar luxiony	•	LDJU (Mai). > 1,0	200 mg/ng



rsion	Revision Date: 2023/09/30	SDS Number:Date of last issue: 2023/02/2311171618-00002Date of first issue: 2023/02/23
Bis(2	6-diisopropylpheny	/l)carbodiimide:
-	oral toxicity	: LD50 (Rat): > 300 - 2,000 mg/kg
	·	Method: OECD Test Guideline 423
Acute	dermal toxicity	<ul> <li>LD50 (Rat): &gt; 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derr toxicity</li> </ul>
	corrosion/irritation assified based on ava	ailable information.
Comp	oonents:	
Hydro	ocarbons, C10, aron	natics, <1% naphthalene:
Asses	sment	: Repeated exposure may cause skin dryness or cracking.
Nony	phenol, ethoxylated	d:
Speci		: Rabbit
Metho		: OECD Test Guideline 404
Resul	t	: No skin irritation
	az (ISO):	
Speci Resul		: Rabbit : No skin irritation
Resul	L	. NO SKITTITIATION
-	6-diisopropylpheny	
Speci		: Rabbit
Metho Resul		<ul><li>: OECD Test Guideline 404</li><li>: No skin irritation</li></ul>
Sorio	us eye damage/eye	irritation
	es serious eye damage	
<u>Comp</u>	oonents:	
-		natics, <1% naphthalene:
Speci		: Rabbit
Resul Rema		: No eye irritation : Based on data from similar materials
IVEIIIG		
-	phenol, ethoxylated	
Speci Resul		: Rabbit
Metho		<ul><li>Irreversible effects on the eye</li><li>OECD Test Guideline 405</li></ul>
<b>!</b> 4	az (ISO):	
amitre		
Speci		: Rabbit



sion	Revision Date: 2023/09/30		S Number: 171618-00002	Date of last issue: 2023/02/23 Date of first issue: 2023/02/23
Resul	t	:	No eye irritation	
Bis(2	,6-diisopropylpheny	/l)carb	odiimide:	
Speci		:	Rabbit	
Resul		:	No eye irritation	
Metho	od	:	OECD Test Gui	deline 405
Resp	iratory or skin sensi	itisatic	n	
Skin	sensitisation			
Not cl	assified based on ava	ailable	information.	
•	iratory sensitisation			
	assified based on ava	ailable	information.	
Comp	oonents:			
-	ocarbons, C10, aron	natics,	<1% naphthale	ne:
Test 7		:	Maximisation Te	est
	sure routes	:	Skin contact	
Speci		:	Guinea pig	
Resul		:	negative	
Rema	irks	:	Based on data f	rom similar materials
Nony	Iphenol, ethoxylated	d:		
Test 7	Гуре	:	Maximisation Te	est
Expos	sure routes	:	Skin contact	
Speci	es	:	Guinea pig	
Resul		:	negative	
Rema	ırks	:	Based on data f	rom similar materials
amitra	az (ISO):			
Test 7	Гуре	:	Maximisation Te	est
	sure routes	:	Dermal	
Speci		:	Guinea pig	
Resul	t	:	Not a skin sensi	tizer.
Bis(2	,6-diisopropylpheny	vl)carb	odiimide:	
Test 7		:	Maximisation Te	est
	sure routes	:	Skin contact	
Speci		:	Guinea pig	
Metho		:	OECD Test Gui	deline 406
Resul	t	:	negative	
	cell mutagenicity			



Version 1.1	Revision Date: 2023/09/30		DS Number: 171618-00002	Date of last issue: 2023/02/23 Date of first issue: 2023/02/23
Con	nponents:			
Hyd	Irocarbons, C10, aroma	tics,	, <1% naphthalene	2:
Ger	notoxicity in vitro	:	malian cells Result: negative	o sister chromatid exchange assay in mam- on data from similar materials
Ger	notoxicity in vivo	:	cytogenetic test, o Species: Rat Application Route Result: negative	enicity (in vivo mammalian bone-marrow chromosomal analysis) e: inhalation (vapour) on data from similar materials
Nor	ylphenol, ethoxylated:			
	notoxicity in vitro	:	Result: negative	rial reverse mutation assay (AMES) on data from similar materials
ami	traz (ISO):			
	notoxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: In vitro Result: negative	o mammalian cell gene mutation test
			Test Type: Chrom Result: negative	nosome aberration test in vitro
			Test Type: DNA c thesis in mammal Result: negative	damage and repair, unscheduled DNA syn- lian cells (in vitro)
Bio	(2 6 dijaansansulahansul)	aarb	o diimido.	
	(2,6-diisopropylphenyl) notoxicity in vitro	:		rial reverse mutation assay (AMES) est Guideline 471
			Test Type: Chrom Method: OECD To Result: negative	nosome aberration test in vitro est Guideline 473
			Test Type: In vitro Method: OECD To Result: negative	o mammalian cell gene mutation test est Guideline 476

#### Carcinogenicity

Not classified based on available information.



Version 1.1	Revision Date: 2023/09/30	-	0S Number: 171618-00002	Date of last issue: 2023/02/23 Date of first issue: 2023/02/23
<b>amitr</b> Speci Applio	cation Route	:	Rat Oral	
Expos NOAE Resul			2 Years > 10.18 mg/kg bo negative	dy weight
LOAE Resul	sure time EL	:	Mouse 2 Years 2.3 mg/kg body w positive Liver, Stomach	eight
May o	oductive toxicity damage fertility.			
	oonents:			
-	ocarbons, C10, aroma	itics,	Test Type: Three Species: Rat Application Route Result: negative	e: generation reproduction toxicity study : inhalation (vapour) on data from similar materials
Effect ment	s on foetal develop-	:	Species: Rat Application Route Result: negative	ro-foetal development : Ingestion on data from similar materials
amitr	az (ISO):			
Effect	s on fertility	:	Species: Rat Application Route Fertility: NOAEL:	generation reproduction toxicity study : Oral > 4.8 mg/kg body weight cant adverse effects were reported
Effect ment	s on foetal develop-	:	Species: Rat Application Route Developmental To Remarks: No sign Test Type: Embry Species: Rabbit Application Route Developmental To	oxicity: NOAEL: 3 mg/kg body weight ificant adverse effects were reported ro-foetal development



Version	Revision Date:	SDS Number:	Date of last issue: 2023/02/23
1.1	2023/09/30	11171618-00002	Date of first issue: 2023/02/23

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

Effects on fertility	:	Test Type: Reproduction/Developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 421 Result: positive Test Type: Fertility Species: Rat Application Route: Ingestion Result: positive
Effects on foetal develop- ment	:	Test Type: Reproduction/Developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 421 Result: equivocal
Reproductive toxicity - As- sessment	:	Clear evidence of adverse effects on sexual function and fertil- ity, based on animal experiments.

#### STOT - single exposure

May cause drowsiness or dizziness.

#### Components:

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

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

#### STOT - repeated exposure

May cause damage to organs (Liver, Central nervous system, Kidney, Heart, Gastrointestinal tract, Lymph nodes) through prolonged or repeated exposure.

#### Components:

amitraz (	(ISO)	):
annu az (	100	

Liver, Central nervous system May cause damage to organs through prolonged or repeated exposure.
exposure.

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

Exposure routes	:	Ingestion
Target Organs	:	Kidney, Heart, Gastrointestinal tract, Lymph nodes
Assessment	:	Causes damage to organs through prolonged or repeated exposure.



Version	Revision Date:	SDS Number:	Date of last issue: 2023/02/23
1.1	2023/09/30	11171618-00002	Date of first issue: 2023/02/23

#### Repeated dose toxicity

#### Components:

Hydrocarbons, C10, aromatics, <1% naphthalene:					
Species	:	Rat			
NOAEL	:	300 mg/kg			
Application Route	:	Ingestion			
Exposure time	:	13 Weeks			
Remarks	:	Based on data from similar materials			

#### amitraz (ISO):

Target Organs

Species NOAEL Application Route Exposure time Target Organs	:	Mouse 3 mg/kg Oral 90 Days Liver
Species NOAEL Application Route Exposure time	::	Dog 0.25 mg/kg Oral 90 Days

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

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

#### Aspiration toxicity

May be fatal if swallowed and enters airways.

#### Components:

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

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

: Central nervous system, Liver

#### Experience with human exposure

#### Components:

#### amitraz (ISO):

Ingestion

: Target Organs: Central nervous system



Version	Revision Date:	SDS Number:	Date of last issue: 2023/02/23
1.1	2023/09/30	11171618-00002	Date of first issue: 2023/02/23

#### 12. ECOLOGICAL INFORMATION

Ecotoxicity							
Components:							
Hydrocarbons, C10, aromatics, <1% naphthalene:							
Toxicity to fish	:	LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203 Remarks: Based on data from similar materials					
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): 3 - 10 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202 Remarks: Based on data from similar materials					
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (green algae)): > 1 - 3 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials					
Nonylphenol, 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					
(	:	1					
icity) Toxicity to fish (Chronic tox- icity)	:	NOEC (Oryzias latipes (Japanese medaka)): > 0.1 - 1 mg/l Exposure time: 100 d Remarks: Based on data from similar materials					



Versi 1.1	ion	Revision Date: 2023/09/30		S Number: 171618-00002	Date of last issue: 2023/02/23 Date of first issue: 2023/02/23
i		invertebrates (Chron-	:	mg/l Exposure time: 28	s bahia (opossum shrimp)): > 0.001 - 0.01 d on data from similar materials
	M-Factor toxicity)	or (Chronic aquatic	:	10	
	amitraz	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 s h
	Toxicity plants	to algae/aquatic	:	NOEC (Pseudokir mg/l Exposure time: 91	chneriella subcapitata (green algae)): 0.04 h
		or (Acute aquatic tox-	:	10	
	icity) Toxicity icity)	to fish (Chronic tox-	:	NOEC (Pimephale mg/l Exposure time: 32	es promelas (fathead minnow)): 0.00148 ? d
i		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		:	LC50 (Oncorhync 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	j/l



rsion	Revision Date: 2023/09/30	SDS Number: 11171618-0000	Date of last issue: 2023/02/23 Date of first issue: 2023/02/23
		Exposure tir Method: OE	me: 3 h CD Test Guideline 209
Persi	stence and degradabi	lity	
Com	ponents:		
Hydro	ocarbons, C10, aroma	tics, <1% naphth	nalene:
-	egradability	: Result: Not Biodegrada Exposure tir	readily biodegradable. tion: 49.56 %
Nony	Iphenol, ethoxylated:		
-	egradability		readily biodegradable. ased on data from similar materials
Bis(2	,6-diisopropylphenyl)	arbodiimide:	
Biode	egradability	Biodegrada Exposure tir	
Bioad	ccumulative potential		
Com	ponents:		
Nony	Iphenol, ethoxylated:		
	ion coefficient: n- ol/water	: log Pow: 4.4	48
amitr	az (ISO):		
Bioac	cumulation		pomis macrochirus (Bluegill sunfish) ation factor (BCF): 1,333
	ion coefficient: n- ol/water	: log Pow: 5.8	5
•	,6-diisopropylphenyl)		
Bioac	cumulation	: Bioconcentr	ration factor (BCF): > 500
	ion coefficient: n- ol/water	: log Pow: > 6	6.2
Mobi	lity in soil		
Com	ponents:		
amitr	az (ISO):		
Distril	bution among environ- al compartments	: log Koc: 3.3	6



/ersion I.1	Revision Date: 2023/09/30		S Number: 171618-00002	Date of last issue: 2023/02/23 Date of first issue: 2023/02/23	
	r <b>adverse effects</b> ata available				
13. DISPO	SAL CONSIDERATION	NS			
Dispo	osal methods				
Waste	e from residues	:		of waste into sewer. cordance with local regulations	
Conta	minated packaging	:	Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product		
4. TRAN	SPORT INFORMATION	I			
Interr	national Regulations				
UNRT					
	umber	:	UN 3082		
Prope	er shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQU N.O.S. (amitraz (ISO))		
Class		:	9		
Packi	ng group	:	III		
Label		:	9		
Enviro	onmentally hazardous	:	yes		
ΙΑΤΑ·	-DGR				
UN/IC	) No.	:	UN 3082		
Prope	er shipping name	:	Environmentally (amitraz (ISO))	hazardous substance, liquid, n.o.s.	
Class		:	9		
	ng group	:			
Label		:	Miscellaneous		
aircra		:	964		
ger ai		:	964		
Enviro	onmentally hazardous	:	yes		
IMDG	-Code				
	umber	:	UN 3082		
	er shipping name	:		TALLY HAZARDOUS SUBSTANCE, LIQUID	
Class		:	9		
	ng group	:	III		
Label		:	9		
EmS		:	: F-A, S-F		
Marin	e pollutant	:	yes		

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



Version	Revision Date:	SDS Number:	Date of last issue: 2023/02/23
1.1	2023/09/30	11171618-00002	Date of first issue: 2023/02/23

#### 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

#### 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 control, Annex II

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

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

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

Revision Date	:	2023/09/30
Further information		
Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD



Version 1.1	Revision Date: 2023/09/30	-	DS Number: 171618-00002	Date of last issue: 2023/02/23 Date of first issue: 2023/02/23
compil Sheet	e the Safety Data		eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/	
Date fo	ormat	:	: yyyy/mm/dd	
Full te	xt of other abbreviat	ions		
ACGI⊦ ID OEI	-	:	<ul> <li>USA. ACGIH Threshold Limit Values (TLV)</li> <li>Indonesia. Occupational Exposure Limits</li> </ul>	
	I / TWA _ / NAB	:	8-hour, time-weighted average Long term exposure limit	

ID OEL / NAB: Long term exposure limitID OEL / PSD: Short term exposure limit

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 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.



Version	Revision Date:	SDS Number:	Date of last issue: 2023/02/23
1.1	2023/09/30	11171618-00002	Date of first issue: 2023/02/23

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