

Version	Revision Date:	SDS Number:	Date of last issue: 23.02.2023
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier		
	Trade name	:	Amitraz (12.5%) EC Liquid Formulation
1.2	Relevant identified uses of th	ie s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Veterinary product
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	MSD Kilsheelan Clonmel Tipperary, IE
	Telephone	:	353-51-601000

1.4 Emergency telephone number

E-mail address of person

responsible for the SDS

1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 Serious eye damage, Category 1	H302: Harmful if swallowed. H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 1B	H360F: May damage fertility.
Specific target organ toxicity - single ex- posure, Category 3	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through pro- longed or repeated exposure.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters air- ways.
Short-term (acute) aquatic hazard, Cate- gory 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Cat- egory 1	H410: Very toxic to aquatic life with long lasting effects.

: EHSDATASTEWARD@msd.com



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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)			
:			
:	Danger		
:	 H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H336 May cause drowsiness or dizziness. H360F May damage fertility. H373 May cause damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects. 		
:	EUH066 Repeated exposure may cause skin dryness or cracking.		
:	 Prevention: P201 Obtain special instructions before use. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. 		
	Response: P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if pre- sent and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P391 Collect spillage.		
	EC) : : :		

Hazardous components which must be listed on the label:

Hydrocarbons, C10, aromatics, <1% naphthalene Nonylphenol, ethoxylated amitraz (ISO) Bis(2,6-diisopropylphenyl)carbodiimide

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.



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Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Components		1	1
Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Hydrocarbons, C10, aromatics, <1% naphthalene	64742-94-5	STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066	>= 50 - < 70
Nonylphenol, ethoxylated	9016-45-9	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 20 - < 25
		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	
amitraz (ISO)	33089-61-1 251-375-4 612-086-00-2	Acute Tox. 4; H302 Skin Sens. 1B; H317 STOT RE 2; H373 (Liver, Central nerv- ous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 10 - < 20
		M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
Bis(2,6- diisopropylphenyl)carbodiimide	2162-74-5 218-487-5	Acute Tox. 4; H302 Repr. 1B; H360F STOT RE 1; H372 (Kidney, Heart, Gas- trointestinal tract, Lymph nodes)	>= 1 - < 2.5



Commission Regulation (EU) 2020/878

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			Aquatic Chronic 4; H413 Acute toxicity esti- mate
	unlogation of obligation		Acute oral toxicity: 300.03 mg/kg

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures General advice : In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice. 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). 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. 4.2 Most important symptoms and effects, both acute and delayed Risks Harmful if swallowed. • May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Causes serious eye damage. May cause drowsiness or dizziness. May damage fertility. May cause damage to organs through prolonged or repeated exposure.



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			Repeated exposu	re may cause skin dryness or cracking.
	cation of any immediate n atment	meo :		I special treatment needed cally and supportively.
SECTIO	ON 5: Firefighting meas	sur	es	
5.1 Extii	nguishing media			
Suit	able extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
Uns med	uitable extinguishing dia	:	None known.	
5.2 Spec	cial hazards arising from	the	substance or mi	xture
Spe figh	cific hazards during fire- ting	:	Exposure to com	oustion products may be a hazard to health.
Haz		:	Carbon oxides Nitrogen oxides (I	NOx)
5.3 Advi	ce for firefighters			
	cial protective equipment	:		e, wear self-contained breathing apparatus. rective equipment.
Spe ods	cific 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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
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



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		cannot be contai	ned.
6.3 Method	is and material for co	ontainment and clean	ing up
Metho	ds for cleaning up	For large spills, p ment to keep ma be pumped, stor Clean up remain bent. Local or national posal of this mat employed in the mine which regu Sections 13 and	rt absorbent material. provide dyking or other appropriate contain- terial from spreading. If dyked material can e recovered material in appropriate container. ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- lations are applicable. 15 of this SDS provide information regarding ational requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

		5	
	Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
	Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
	Advice on safe handling	:	Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. 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 Keep container tightly closed. 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 contami- nated 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, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
7.2	Conditions for safe storage	, inc	luding any incompatibilities

Requirements for storage
areas and containers:Keep in properly labelled containers. Store locked up. Keep
in a cool, well-ventilated place. Store in



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		accordance w	vith the particular national regulations.
Advice on common storage		Strong oxidiz	substances and mixtures
•	i c end use(s) ïic use(s)	: No data avail	able

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Hydrocarbons, C10, aromatics, <1% naphthalene	64742-94-5	OELV - 8 hrs (TWA) (inhalable fraction)	5 mg/m3	IE OEL
amitraz (ISO)	33089-61-1	TWA	10 µg/m3 (OEB 3)	Internal
		Wipe limit	1250 μg/100 cm²	Internal

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Bis(2,6- diiso- propylphenyl)carbodii mide	Workers	Inhalation	Long-term systemic effects	0.094 mg/m3
	Workers	Skin contact	Long-term systemic effects	0.013 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.023 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0.007 mg/kg bw/day
	Consumers	Skin contact	Acute systemic ef- fects	20 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0.007 mg/kg bw/day
	Consumers	Ingestion	Acute systemic ef- fects	0.021 mg/kg bw/day
Hydrocarbons, C10, aromatics, <1% naph- thalene	Workers	Inhalation	Long-term systemic effects	151 mg/m3
	Workers	Skin contact	Long-term systemic effects	12.5 mg/kg bw/day



according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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		Consumers	Inhalation	Long-term systemic effects	32 mg/m3

		effects	
Consumers	Skin contact	Long-term systemic	7.5 mg/kg
		effects	bw/day
Consumers	Ingestion	Long-term systemic	7.5 mg/kg
		effects	bw/dav

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Bis(2,6-	Fresh water	0.0001 mg/l
diisopropylphenyl)carbodiimide		_
	Marine water	0.00001 mg/l
	Intermittent use/release	0.001 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	5.461 mg/kg dry
		weight (d.w.)
	Soil	4.445 mg/kg dry
		weight (d.w.)

8.2 Exposure controls

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 containment devices).

Minimize open handling.

Personal protective equipment

Eye/face 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.
Hand protection	
Material :	Chemical-resistant gloves
Remarks : Skin and body protection :	Consider double gloving. 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.
Respiratory protection : Filter type :	



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	clear
		yellow
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	Not applicable
Vapour pressure	:	No data available
Relative density	:	No data available



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	Densit	у	:	No data availabl	e
	Relativ	ve vapour density	:	No data availabl	e
	Particle characteristics Particle size		:	Not applicable	
9.2	Other in	nformation			
	Explos	sives	:	Not explosive	
	Oxidizing properties		:	The substance c	r mixture is not classified as oxidizing.
	Evapo	ration rate	:	No data availabl	e
	Molecu	ular weight	:	No data availabl	e

SECTION 10: Stability and reactivity

10.1 Reactivity Not classified as a reactivity	hazar	rd.
10.2 Chemical stability Stable under normal condition	ons.	
10.3 Possibility of hazardous re	eactio	ons
Hazardous reactions	:	Can react with strong oxidizing agents.
10.4 Conditions to avoid		
Conditions to avoid	:	None known.
10.5 Incompatible materials		Ovidizing agents
Materials to avoid	:	Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

Acute toxicity

Harmful if swallowed.

Product:

exposure



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/	Acute oral toxicity		:	: Acute toxicity estimate: 1,491 mg/kg Method: Calculation method					
<u>(</u>	Compo	onents:							
ł	Hydrod	carbons, C10, aromat	ics,	<1% naphthalene					
/	Acute o	oral toxicity	:	 LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 420 Remarks: Based on data from similar materials 					
,	Acute inhalation toxicity		:	LC50 (Rat): > 4.778 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Remarks: Based on data from similar materials					
	Acute dermal toxicity		:	toxicity					
I	Nonylphenol, ethoxylated:								
1	Acute o	oral toxicity	:	LD50 (Rat): 500 -	2,000 mg/kg				
ä	amitra	z (ISO):							
/	Acute o	oral toxicity	:	LD50 (Rat): > 400) mg/kg				
				LD50 (Mouse): >	1,085 mg/kg				
				LD50 (Guinea pig): > 400 mg/kg				
/	Acute i	nhalation toxicity	:	Remarks: No data	a available				
/	Acute o	dermal toxicity	:	LD50 (Rat): > 1,6	00 mg/kg				
E	Bis(2,6	-diisopropylphenyl)c	arb	odiimide:					
	• •	oral toxicity		LD50 (Rat): > 300 Method: OECD T					
,	Acute o	dermal toxicity	:	LD50 (Rat): > 2,0 Method: OECD To Assessment: The toxicity					

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.



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Comp	oonents:		
		ation 19/ nonhthalan	
-		atics, <1% naphthalen	
Asses	ssment	: Repeated expos	ure may cause skin dryness or crack
Nony	Iphenol, ethoxylated	l:	
Speci		: Rabbit	
Metho		: OECD Test Guid	
Resul	t	: No skin irritation	
amitra	az (ISO):		
Speci	es	: Rabbit	
Resul	t	: No skin irritation	
Bis(2	,6-diisopropylpheny	l)carbodiimide:	
Speci	es	: Rabbit	
Metho		: OECD Test Guid	deline 404
Resul	t	: No skin irritation	
-		atics, <1% naphthalen	e:
Speci		: Rabbit	
Resul		: No eye irritation	
Rema	Irks	: Based on data fr	om similar materials
Nony	Iphenol, ethoxylated	l:	
Speci		: Rabbit	
Metho		: OECD Test Guid	
Resul	t	: Irreversible effec	ts on the eye
amitra	az (ISO):		
Speci		: Rabbit	
Resul	t	: No eye irritation	
Bis(2	,6-diisopropylpheny	l)carbodiimide:	
Speci		; Rabbit	
Metho		: OECD Test Guid	leline 405
Resul		: No eye irritation	
Respi	iratory or skin sensi	tisation	
-	sensitisation		
UNIT 3	sensitisation		

May cause an allergic skin reaction.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Respiratory sensitisation

Not classified based on available information.

Components:

Hydrocarbons, C10, aromatics, <1% naphthalene:

Exposure routes : Species : Result :	Maximisation Test Skin contact Guinea pig negative
	Based on data from similar materials

Nonylphenol, ethoxylated:

Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Result	: negative
Remarks	: Based on data from similar materials

amitraz (ISO):

Test Type	:	Maximisation Test
Exposure routes	:	Dermal
Species	:	Guinea pig
Result	:	Sensitiser
Species	:	Guinea pig

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

Not classified based on available information.

Components:

Hydrocarbons, C10, aromatics, <1% naphthalene:					
Genotoxicity in vitro :	Test Type: In vitro sister chromatid exchange assay in mam- malian cells Result: negative Remarks: Based on data from similar materials				
Genotoxicity in vivo :	Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Rat Application Route: inhalation (vapour) Result: negative Remarks: Based on data from similar materials				



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1	Nonylı	ohenol, ethoxylated:			
		oxicity in vitro	:	Result: negative	rial reverse mutation assay (AMES) on data from similar materials
á	amitra	z (ISO):			
(Genoto	oxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
				Test Type: In vitro Result: negative	o mammalian cell gene mutation test
				Test Type: Chron Result: negative	nosome aberration test in vitro
				Test Type: DNA o thesis in mamma Result: negative	damage and repair, unscheduled DNA syn- lian cells (in vitro)
I	Bis(2,6	o-diisopropylphenyl)c	arb	odiimide:	
	Conote			Test Type: Posta	rial reverse mutation access (AMES)

Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
	Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative
	Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative

Carcinogenicity

Not classified based on available information.

Components:

amitraz (ISO):

Species Application Route Exposure time NOAEL Result	: : : :	Rat Oral 2 Years > 10.18 mg/kg body weight negative
Species Exposure time LOAEL Result Target Organs		Mouse 2 Years 2.3 mg/kg body weight positive Liver, Stomach



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-	oductive toxicity damage fertility.		
Com	ponents:		
Hydr	ocarbons, C10, aromat	ics, <1% naphthalen	ne:
Effec	ts on fertility	Species: Rat Application Rout Result: negative	e-generation reproduction toxicity study te: inhalation (vapour) d on data from similar materials
Effec ment	ts on foetal develop-	Species: Rat Application Rout Result: negative	
amit	raz (ISO):		
	ets on fertility	Species: Rat Application Rout Fertility: NOAEL	e-generation reproduction toxicity study te: Oral : > 4.8 mg/kg body weight ficant adverse effects were reported
Effec ment	ts on foetal develop-	Species: Rat Application Rout Developmental T Remarks: No sig Test Type: Embr Species: Rabbit Application Rout Developmental T	Foxicity: NOAEL: 3 mg/kg body weight gnificant adverse effects were reported ryo-foetal development
Bis/2	2,6-diisopropylphenyl)c	arbodiimida	
•	ets on fertility	: Test Type: Repr test Species: Rat Application Rout	oduction/Developmental toxicity screening te: Ingestion Test Guideline 421
		Test Type: Fertil Species: Rat Application Rout Result: positive	
Effec ment	ts on foetal develop-	: Test Type: Repretest	oduction/Developmental toxicity screening

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		Species: Rat Application Ro Method: OECE Result: equivor) Test Guideline 421		
Repro sessn	oductive toxicity - As- nent		of adverse effects on sexual function and fert nimal experiments.		
	- single exposure cause drowsiness or d	izziness.			
	oonents:				
Hydro	ocarbons, C10, arom	atics, <1% naphthale	ene:		
-	ssment	: May cause dro	wsiness or dizziness. from similar materials		
	- repeated exposure		or repeated exposure.		
Com	ponents:				
amitr	az (ISO):				
Targe	et Organs ssment	 Liver, Central r May cause dar exposure. 	nervous system nage to organs through prolonged or repeated		
Bis(2	,6-diisopropylphenyl)carbodiimide:			
Exposure routes Target Organs Assessment			 Kidney, Heart, Gastrointestinal tract, Lymph nodes Causes damage to organs through prolonged or repeated 		
Repe	ated dose toxicity				
<u>Comp</u>	oonents:				
Hydro	ocarbons, C10, arom	atics, <1% naphthale	ene:		
Speci NOAE Applic	es EL cation Route sure time	: Rat : 300 mg/kg : Ingestion : 13 Weeks	from similar materials		
amitr	az (ISO):				
Speci NOAE Applic Expos	es	: Mouse : 3 mg/kg : Oral : 90 Days : Liver			

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Expos			Dog 0.25 mg/kg Oral 90 Days Central nervous s	system, Liver
Bis(2	,6-diisopropylpheny	l)carb	odiimide:	
Speci NOAE LOAE	EL EL	:	Rat 4 mg/kg 16 mg/kg	
Applic	cation Route	:	Ingestion	

: 28 Days

Aspiration toxicity

May be fatal if swallowed and enters airways.

Components:

Exposure time

Method

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.

: OECD Test Guideline 407

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Experience with human exposure

Components:

amitraz (ISO): Ingestion

: Target Organs: Central nervous system

SECTION 12: Ecological information

12.1 Toxicity

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



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				Method: OECD To Remarks: Based of	est Guideline 203 on data from similar materials
		to daphnia and other invertebrates	:	Exposure time: 48 Test substance: V Method: OECD Te	Vater Accommodated Fraction
	Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 72 Test substance: V Method: OECD Te	Vater Accommodated Fraction
	Nonvin	henol, ethoxylated:			
	Toxicity	· · ·	:	Exposure time: 96	s promelas (fathead minnow)): > 0.1 - 1 mg/l 5 h on data from similar materials
		to daphnia and other invertebrates	:	Exposure time: 48	nia dubia (water flea)): > 0.1 - 1 mg/l 3 h on data from similar materials
	Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	
				Exposure time: 72 Method: OECD Te	
	M-Facto icity)	or (Acute aquatic tox-	:	1	
	Toxicity icity)	to fish (Chronic tox-	:		
		to daphnia and other invertebrates (Chron- ty)	:		
	M-Facto toxicity)	or (Chronic aquatic	:	10	
	amitraz	: (ISO):			



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Тс	oxicity	to fish	:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 0.45 mg/l ì h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.035 mg/l 3 h
	oxicity ants	to algae/aquatic	:	NOEC (Pseudokir mg/l Exposure time: 91	rchneriella subcapitata (green algae)): 0.04 h
	l-Facto ity)	or (Acute aquatic tox-	:	10	
	oxicity ity)	to fish (Chronic tox-	:	NOEC: 0.00148 n Exposure time: 32 Species: Pimepha	
ac		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 0.0011 mg Exposure time: 21 Species: Daphnia	
	-Facto xicity)	or (Chronic aquatic	:	10	
Bi	is(2,6	-diisopropylphenyl)c	arbo	odiimide:	
	•	to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD To	
		to daphnia and other invertebrates	:	Exposure time: 48 Method: OECD Te	
	oxicity ants	to algae/aquatic	:	Exposure time: 72 Method: OECD Te	
				NOEC (Desmode Exposure time: 72 Method: OECD Te	
Тс	oxicity	to microorganisms	:	EC50 : > 1,000 m Exposure time: 3 Method: OECD To	ĥ

12.2 Persistence and degradability

Components:

Hydrocarbons, C10, aromatics, <1% naphthalene:



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B	Biodegradability		 Result: Not readily biodegradable. Biodegradation: 49.56 % Exposure time: 28 d Method: OECD Test Guideline 301F 				
	onylphenol, ethoxylated: odegradability	:	Result: Not readil Remarks: Based	y biodegradable. on data from similar materials			
	i s(2,6-diisopropylphenyl)c odegradability	arb :	Result: Not readily Biodegradation: 3 Exposure time: 28	3 %			
12.3 B	ioaccumulative potential						
<u>C</u>	omponents:						
Ν	onylphenol, ethoxylated:						
	artition coefficient: n- tanol/water	:	log Pow: 4.48				
a	nitraz (ISO):						
B	oaccumulation	:		macrochirus (Bluegill sunfish) factor (BCF): 1,333			
	artition coefficient: n- ctanol/water	:	log Pow: 5.5				
В	is(2,6-diisopropylphenyl)c	arb	odiimide:				
В	oaccumulation	:	Bioconcentration	factor (BCF): > 500			
	artition coefficient: n- stanol/water	:	log Pow: > 6.2				
12.4 M	obility in soil						
<u>C</u>	omponents:						
D	nitraz (ISO): istribution among environ- ental compartments	:	log Koc: 3.3				
12.5 R	esults of PBT and vPvB a	sses	ssment				
P	roduct:						
	ssessment	:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or id very bioaccumulative (vPvB) at levels of			



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12.6 Endo	ocrine disrupting pro	perties					
Prod	uct:						
Assessment :		have endocrine	 This substance/mixture contains components considered to have endocrine disrupting properties for environment, accord- ing to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100. 				
Com	ponents:						
Nony	/Iphenol, ethoxylated	:					
Assessment :			The substance is considered to have endocrine disrupting properties according to REACH Article 57(f) for the environ- ment.				
12.7 Othe	r adverse effects						
No da	ata available						
SECTION	N 13: Disposal cons	siderations					
13.1 Wast	te treatment methods	i					
Produ	uct	According to th are not product Waste codes sl	ccordance with local regulations. e European Waste Catalogue, Waste Codes specific, but application specific. hould be assigned by the user, preferably in the waste disposal authorities.				

Contaminated packaging : Empty containers should be taken to an approved waste ha dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.	Do not dispose of waste into sewer. Contaminated packaging : Empty containers should be taken to an approved
---	---

SECTION 14: Transport information

14.1 UN number or ID number

ADN	:	UN 3082
ADR	:	UN 3082
RID	:	UN 3082
IMDG	:	UN 3082
ΙΑΤΑ	:	UN 3082
14.2 UN proper shipping name		
ADN	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (amitraz (ISO))
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.



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			(amitraz (ISO))		
RID		:	ENVIRONMENTA N.O.S. (amitraz (ISO))	ALLY HAZARDOUS SUBSTANCE, LIQUID,	
IMDG	i	:	ENVIRONMENTA N.O.S. (amitraz (ISO))	ALLY HAZARDOUS SUBSTANCE, LIQUID,	
ΙΑΤΑ		:	: Environmentally hazardous substance, liquid, n.o.s. (amitraz (ISO))		
14.3 Transport hazard class(es)					
			Class	Subsidiary risks	
ADN		:	9		
ADR		:	9		
RID		:	9		
IMDG	ì	:	9		
ΙΑΤΑ		:	9		
14.4 Pack	ing group				
Class	ng group ification Code rd Identification Number s	: : :	III M6 90 9		
ADR Packi Class Hazai Label	ng group ification Code rd Identification Number		III M6 90 9 (-)		
Class	ng group ification Code rd Identification Number s	: : :	III M6 90 9		
IMDG	ng group s	:	III 9 F-A, S-F		
Packi aircra Packi	ng instruction (LQ) ng group	:	964 Y964 III Miscellaneous		

IATA (Passenger)



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	ger aire Packin	g instruction (LQ) g group	:	964 Y964 III Miscellaneous	
14.5	5 Enviro	onmental hazards			
	ADN Enviror	nmentally hazardous	:	yes	
	ADR Enviror	nmentally hazardous	:	yes	
	RID Enviror	nmentally hazardous	:	yes	
	IMDG Marine	pollutant	:	yes	
		Passenger) nmentally hazardous	:	yes	
		Cargo) nmentally hazardous	:	yes	

14.6 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.

14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

Nonylphenol, ethoxylated (Number on list 46b, 46a.)

Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condiaccording to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Amitraz (12.5%) EC Liquid Formulation

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				determine whet	onding Regulation to her an entry is appli- cing on the market or
	CH - Candidate List of ern for Authorisation (Substances of Very Hig	h :	Nonylphenol, et	hoxylated
Regu		2009 on substances that	de- :	Not applicable	
Regu		l on persistent organic p	ollu- :	Not applicable	
Regu ment	lation (EC) No 649/20	012 of the European Parl erning the export and im		amitraz (ISO) Nonylphenol, et	hoxylated
REA0 (Anne	CH - List of substance ex XIV)	s subject to authorisation		Nonylphenol, et	
		olving dangerous substa			
E1		ENVIRONMENT HAZARDS	AL	Quantity 1 100 t	Quantity 2 200 t
34		Petroleum produ gasolines and na (b) kerosenes (ir fuels), (c) gas oil ing diesel fuels, l heating oils and blending streams heavy fuel oils (e tive fuels serving purposes and wi properties as reg flammability and mental hazards a products referred	aphthas, including je s (includ- nome gas oil s),(d) e) alterna- th similar jards environ- as the		25,000 t

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

points (a) to (d)

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.



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	I 16: Other informa	ation				
Other	information	:		anges have been made to the previous versio n the body of this document by two vertical		
Full te	ext of H-Statements					
H302			Harmful if swalld	owed		
H304				wallowed and enters airways.		
H317		:		llergic skin reaction.		
H318		:	Causes serious			
H336		:		vsiness or dizziness.		
H360F	F	:	May damage fei			
H372		:		e to organs through prolonged or repeated		
			exposure.			
H373		:	May cause damage to organs through prolonged or repeated			
			exposure.			
H400		:	Very toxic to aqu			
H410		:		uatic life with long lasting effects.		
H411		:		life with long lasting effects.		
H413 EUH0				lasting harmful effects to aquatic life. sure may cause skin dryness or cracking.		
				sure may cause skin dryness or cracking.		
	ext of other abbrevia	ations				
Acute		:	Acute toxicity			
	ic Acute	:		te) aquatic hazard		
	ic Chronic	:		nic) aquatic hazard		
Asp. 7		:	Aspiration hazard			
Eye D	am.		Serious eye dar Reproductive to			
Repr. Skin S	Sone		Skin sensitisatio	•		
SKILLS		:				
STOT		:	 Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure 			
IE OE		:		Agents and Carcinogens with Occupational		
		•		Values - Code of Practice, Schedule 1 and 2		
	L / OELV - 8 hrs (TW	γ <u>Δ</u>) ·		posure limit value (8-hour reference period)		

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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



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- 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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

Classification of the mixture:

Classification procedure:

		•
Acute Tox. 4	H302	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Repr. 1B	H360F	Calculation method
STOT SE 3	H336	Calculation method
STOT RE 2	H373	Calculation method
Asp. Tox. 1	H304	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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.

IE / EN