

Version	Revision Date:	SDS Number:	Date of last issue: 27.11.2023
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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 Formulation

 Other means of identification
 : COOPERS AMITIK EC CATTLE AND PIG SPRAY (45044)

#### 1.2 Relevant identified uses of the substance 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 safety data sheet

Company	:	MSD Kilsheelan Clonmel Tipperary, IE
Telephone	:	353-51-601000
E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

#### 1.4 Emergency telephone number

+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 Skin sensitisation, Category 1 Germ cell mutagenicity, Category 2	H302: Harmful if swallowed. H318: Causes serious eye damage. H317: May cause an allergic skin reaction. H341: Suspected of causing genetic defects.
Specific target organ toxicity - single exposure, 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.



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2.2 Label elements							
Labelling (REGULATION (EC) No 1272/2008)							
Haza	rd pictograms	:		$\wedge$		$\wedge$	

Signal word	Danger	
Hazard statements	H304 May H317 May H318 Caus H336 May H341 Susp H373 May repeated exp	nful if swallowed. be fatal if swallowed and enters airways. cause an allergic skin reaction. ses serious eye damage. cause drowsiness or dizziness. bected of causing genetic defects. cause damage to organs through prolonged or bosure.
Supplemental Hazard Statements	EUH066 cracking.	Repeated exposure may cause skin dryness or
Precautionary statements		d release to the environment. Ir protective gloves/ protective clothing/ eye protec-
	CENTER/ dc P305 + P351 with water fo sent and eas POISON CE P331 Do N	<ul> <li>IF SWALLOWED: Immediately call a POISON octor.</li> <li>1 + P338 + P310 IF IN EYES: Rinse cautiously or several minutes. Remove contact lenses, if presy to do. Continue rinsing. Immediately call a NTER/ doctor.</li> <li>NOT induce vomiting.</li> <li>ect spillage.</li> </ul>

Hazardous components which must be listed on the label: Hydrocarbons, C10, aromatics, <1% naphthalene Nonylphenol, ethoxylated amitraz (ISO) 7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate

#### 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

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 nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 10 - < 20
		M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7- oxabicyclo[4.1.0]heptane-3- carboxylate	2386-87-0 219-207-4	Skin Sens. 1; H317 Muta. 2; H341 STOT RE 2; H373 (nasal cavity) Aquatic Chronic 3; H412	>= 2,5 - < 10



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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 ad- vice 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. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure. Repeated exposure may cause skin dryness or cracking.			
4.3 Indication of any immediate medical attention and special treatment needed				
Treatment	Treat symptomatically and supportively.			



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### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising from		e substance or mixture Exposure to combustion products may be a hazard to health.
fighting		
Hazardous combustion prod-	:	Carbon oxides

#### 5.3 Advice for firefighters

ucts

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
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.

## **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 cannot be contained.		

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Soak up with inert absorbent material.
		For large spills, provide dyking or other appropriate contain-



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		be pumped, stor Clean up remain bent. Local or national posal of this mat employed in the mine which regu Sections 13 and	aterial from spreading. If dyked material can be recovered material in appropriate container. and materials from spill with suitable absor- I regulations may apply to releases and dis- terial, 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 mational 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

		0	
	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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, 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 tightly closed. Keep in a cool, well-ventilated place. Store in

Commission Regulation (EU) 2020/878



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#### 7.3 Specific end use(s)

Specific use(s)

: No data available

### **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	TWA	25 ppm 120 mg/m3	FOR-2011- 12-06-1358
amitraz (ISO)	33089-61-1	TWA	10 µg/m3 (OEB 3)	Internal
		Wipe limit	1250 µg/100 cm <sup>2</sup>	Internal

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
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
	Consumers	Inhalation	Long-term systemic effects	32 mg/m3
	Consumers	Skin contact	Long-term systemic effects	7,5 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	7,5 mg/kg bw/day
7- Oxabicy- clo[4.1.0]hept-3- ylmethyl 7- oxabicy- clo[4.1.0]heptane-3- carboxylate	Workers	Inhalation	Long-term systemic effects	0,18 mg/m3
	Workers	Inhalation	Long-term local ef- fects	0,18 mg/m3
	Workers	Skin contact	Long-term systemic effects	0,05 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
7-Oxabicyclo[4.1.0]hept-3-	Fresh water	0,024 mg/l
ylmethyl 7- oxabicyclo[4.1.0]heptane-3- carboxylate		

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



weight (d.w.)

0,0211 mg/kg dry weight (d.w.)

0,0282 mg/kg dry weight (d.w.)

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Ш		Freshwater - ir	ntermittent	0,24 mg/l
		Marine water		0,0024 mg/l
		Sewage treatn	nent plant	19,5 mg/l
		Fresh water se	ediment	0,211 mg/kg dry

Marine sediment

Soil

#### 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, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Respiratory protection Filter type	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to NS EN 14387 Combined particulates and organic vapour type (A-P)
	·	Combined particulates and organic vapour type (A-r)

### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	clear

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



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				light yellow	
	Odour		:	characteristic	
	Odour <sup>-</sup>	Threshold	:	No data available	)
	Melting	point/freezing point	:	No data available	)
	Initial b range	oiling point and boiling	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	9
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Flash p	oint	:	No data available	)
	Auto-ig	nition temperature	:	No data available	)
	Decom	position temperature	:	No data available	)
	рН		:	No data available	)
	Viscosi Visc	ty cosity, kinematic	:	No data available	9
	Solubili Wat	ty(ies) er solubility	:	No data available	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Vapour	pressure	:	No data available	)
	Relative	e density	:	0,952 (15 °C)	
	Density	,	:	No data available	
	Relative	e vapour density	:	No data available	
		characteristics icle size	:	Not applicable	

#### 9.2 Other information



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Explo	sives	:	Not explosive	
Oxidizing properties		:	The substance of	or mixture is not classified as oxidizing.
Evaporation rate		:	No data available	e
Molecular weight		:	No data available	e

## **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

Not classified as a reactivity hazard.

#### 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

Hazardous reactions . Can react with strong oxidizing agent	Hazardous reactions	: Can react with strong of	oxidizing agents.
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### 10.4 Conditions to avoid

Conditions to avoid : None known.

#### 10.5 Incompatible materials

Materials to avoid	: Oxidizing agent	S
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#### 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 exposure	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity Harmful if swallowed.		
Product: Acute oral toxicity	:	Acute toxicity estimate: 1.471 mg/kg Method: Calculation method

### Components:

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

Acute oral toxicity	: LD50 (Rat): > 5.000 mg/kg
	Method: OECD Test Guideline 420
Acute oral toxicity	Remarks: Based on data from similar materials



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Acut	Acute inhalation toxicity Acute dermal toxicity		<ul> <li>LC50 (Rat): &gt; 4,778 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Remarks: Based on data from similar materials</li> </ul>		
Acut			LD50 (Rabbit): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity Remarks: Based on data from similar materials		
Non	ylphenol, ethoxylated:				
	e oral toxicity	:	LD50 (Rat): 500 -	- 2.000 mg/kg	
amit	raz (ISO):				
Acut	e oral toxicity	:	LD50 (Rat): > 400	0 mg/kg	
			LD50 (Mouse): >	1.085 mg/kg	
			LD50 (Guinea pig	g): > 400 mg/kg	
Acut	e inhalation toxicity	:	Remarks: No dat	a available	
Acut	Acute dermal toxicity		LD50 (Rat): > 1.6	00 mg/kg	
	abicyclo[4.1.0]hept-3- e oral toxicity	-	LD50 (Rat, male)	<b>[4.1.0]heptane-3-carboxylate:</b> : > 2.959 - 5.000 mg/kg est Guideline 401	
Acut	e inhalation toxicity	:		h	
Acut	e dermal toxicity	:		00 mg/kg est Guideline 402 substance or mixture has no acute dermal	
Skin corrosion/irritation Repeated exposure may cause skin dryness or cracking					

Repeated exposure may cause skin dryness or cracking.

## Components:

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

Assessment : Repeated exposure may cause skin dryness or cracking.



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### Nonylphenol, ethoxylated:

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

#### amitraz (ISO):

Species Result	:	Rabbit
Result	:	No skin irritation

#### 7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:

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

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Components:

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

Species : Result : Remarks :	Rabbit
Result :	No eye irritation
Remarks :	Based on data from similar materials

#### Nonylphenol, ethoxylated:

Species Method Result	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Irreversible effects on the eye

#### amitraz (ISO):

Species Result	:	Rabbit
Result	:	No eye irritation

#### 7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:

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

#### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

Not classified based on available information.

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#### **Components:**

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

: Maximisation Test
: Skin contact
: Guinea pig
: negative
: Based on data from similar materials

Nonylphenol, ethoxylated:		
Test Type Exposure routes Species Result Remarks	:	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
Test Type Exposure routes Species Result	:	Sensitiser

#### 7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:

Test Type Exposure routes Species Result	<ul> <li>Maximisation Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>positive</li> </ul>
Assessment	: Probability or evidence of skin sensitisation in humans

#### Germ cell mutagenicity

Suspected of causing genetic defects.

#### **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

## Nonylphenol, ethoxylated:

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES)	
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ersion 0	Revision Date: 06.04.2024	SDS Number:Date of last issue: 27.11.202311182846-00005Date of first issue: 21.03.2023
		Result: negative Remarks: Based on data from similar materials
	raz (ISO): otoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: In vitro mammalian cell gene mutation test Result: negative
		Test Type: Chromosome aberration test in vitro Result: negative
		Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Result: negative
7-Ox	abicyclo[4.1.0]hept-3	3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:
	otoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: positive
		Test Type: In vitro mammalian cell gene mutation test Result: positive
		Test Type: In vitro sister chromatid exchange assay in mam- malian cells Result: positive
		Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Result: positive
Genc	otoxicity in vivo	<ul> <li>Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo Species: Rat Application Route: Ingestion Method: OECD Test Guideline 486 Result: negative</li> </ul>
		Test Type: Micronucleus test Species: Mouse Application Route: Intraperitoneal injection Result: negative
		Test Type: Transgenic rodent somatic cell gene mutation as- say Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 488 Result: positive



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Germ sessn	cell mutagenicity- As- nent	:	Positive result(s) genicity tests.	from in vivo mammalian somatic cell muta-
	nogenicity lassified based on avail	able	information.	
Com	oonents:			
amitr	az (ISO):			
Speci Applic	es cation Route sure time EL	:	Rat Oral 2 Years > 10,18 mg/kg be negative	ody weight
LOAE Resul	sure time L	:	Mouse 2 Years 2,3 mg/kg body v positive Liver, Stomach	weight
7-Oxa	abicyclo[4.1.0]hept-3-y	/lme	thyl 7-oxabicyclo	o[4.1.0]heptane-3-carboxylate:
Speci Applic	es cation Route sure time		Mouse Skin contact 29 Months negative	,
-	oductive toxicity lassified based on avail	able	information.	
	oonents:			
	ocarbons, C10, aroma	tice	~1% nanhthalan	01
	s on fertility	:	Test Type: Three Species: Rat Application Rout Result: negative	e-generation reproduction toxicity study e: inhalation (vapour) on data from similar materials
Effect ment	s on foetal develop-	:	Species: Rat Application Rout Result: negative	yo-foetal development e: Ingestion on data from similar materials

amitraz (ISO):

Effects on fertility	: Test Type: Three-generation reproduction toxicity study Species: Rat
	Application Route: Oral
	Fertility: NOAEL: > 4,8 mg/kg body weight
	Result: No significant adverse effects were reported



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ersion )	Revision Date: 06.04.2024	SDS Numbe 11182846-00	
Effect ment	ts on foetal develop-	Species: Application Developm Remarks Test Typ Species: Application Developm	on Route: Oral mental Toxicity: NOAEL: 3 mg/kg body weight s: No significant adverse effects were reported e: Embryo-foetal development Rabbit on Route: Oral mental Toxicity: NOAEL: 5 mg/kg body weight
			Effects on foetal development
	ts on foetal develop-	: Test Typ Species: Applicatio	on Route: Ingestion OECD Test Guideline 414
II STOI	۲ - single exposure		
	cause drowsiness or dia	zziness.	
Com	ponents:		
Hydro	ocarbons, C10, aroma	tics, <1% nap	hthalene:
Asses Rema	ssment arks		se drowsiness or dizziness. n data from similar materials
STO	Γ - repeated exposure		
May o	cause damage to orgar	s through prolo	onged or repeated exposure.
<u>Com</u>	ponents:		
amitr	az (ISO):		
	et Organs ssment		entral nervous system se damage to organs through prolonged or repeated e.
7-Oxa	abicyclo[4.1.0]hept-3-	ylmethyl 7-oxa	abicyclo[4.1.0]heptane-3-carboxylate:
Targe	sure routes et Organs ssment	: Ingestion : nasal cav : Shown to centratio	
Repe	ated dose toxicity		
-	ponents:		
	ocarbons, C10, aroma	itics ~1% nan	hthalene.
		· Rat	

Species : Rat

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



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NOAI Applie Expos Rema	cation Route sure time	: 300 mg/kg : Ingestion : 13 Weeks : Based on data	from similar materials
Speci NOAI Applic Expos		: Mouse : 3 mg/kg : Oral : 90 Days : Liver	
Expo		: Dog : 0,25 mg/kg : Oral : 90 Days : Central nervou	ıs system, Liver

#### 7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:

Species	: Rat
NOAEL	: 5 mg/kg
LOAEL	: 50 mg/kg
Application Route	: Ingestion
Exposure time	: 90 Days
Species NOAEL LOAEL Application Route Exposure time Method	: OECD Test Guideline 408

#### 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.

#### 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):



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Inges	tion	: 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 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
M-Factor (Acute aquatic tox- icity)	:	1
Toxicity to fish (Chronic tox-	:	NOEC: > 0,1 - 1 mg/l

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icity)				00 d latipes (Japanese medaka) on data from similar materials
	ity to daphnia and other tic invertebrates (Chron- icity)	:		
M-Fa toxici	ctor (Chronic aquatic ty)	:	10	
amitr	az (ISO):			
	ity to fish	:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 0,45 mg/l 5 h
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0,035 mg/l 3 h
Toxic plants	ity to algae/aquatic s	:	NOEC (Pseudokir mg/l Exposure time: 91	rchneriella subcapitata (green algae)): 0,04 h
M-Fa icity)	ctor (Acute aquatic tox-	:	10	
Toxic icity)	ity to fish (Chronic tox-	:	NOEC: 0,00148 m Exposure time: 32 Species: Pimepha	
	ity to daphnia and other tic invertebrates (Chron- icity)	:	NOEC: 0,0011 mg Exposure time: 21 Species: Daphnia	
M-Fa toxici	ctor (Chronic aquatic ty)	:	10	
	abicyclo[4.1.0]hept-3-yl ity to fish	lme :		
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxic plants	ity to algae/aquatic s	:	ErC50 (Raphidoce 110 mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Raphidoco mg/l Exposure time: 72	elis subcapitata (freshwater green alga)): 3 2 h
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Toxic	ity to microorganisms	<ul> <li>Method: OECD Test Guideline 201</li> <li>EC10 (activated sludge): 409 mg/l Exposure time: 3 h Method: OECD Test Guideline 209</li> </ul>				
		Method. OECD Test Guidenne 209				
12.2 Persi	stence and degradab	ility				
<u>Com</u>	ponents:					
		itics, <1% naphthalene:				
Biode	gradability	<ul> <li>Result: Not readily biodegradable.</li> <li>Biodegradation: 49,56 %</li> <li>Exposure time: 28 d</li> <li>Method: OECD Test Guideline 301F</li> </ul>				
Nonv	Iphenol, ethoxylated:					
	gradability	: Result: Not readily biodegradable. Remarks: Based on data from similar materials				
7-0xa	 7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:					
Biode	gradability	<ul> <li>Result: Not readily biodegradable.</li> <li>Biodegradation: 71 %</li> <li>Exposure time: 28 d</li> <li>Method: OECD Test Guideline 301B</li> </ul>				
12.3 Bioa	ccumulative potential					
<u>Com</u>	oonents:					
Nony	Iphenol, ethoxylated:					
	ion coefficient: n- ol/water	: log Pow: 4,48				
	az (ISO):					
Bioac	cumulation	: Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 1.333				
	ion coefficient: n- ol/water	: log Pow: 5,5				
7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:						
	ion coefficient: n- ol/water	: log Pow: 1,34 Method: OECD Test Guideline 107				
12.4 Mobi	lity in soil					
<u>Com</u>	oonents:					
	az (ISO):					
	bution among environ-	: log Koc: 3,3				



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:

#### mental compartments

#### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment

: 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.

#### 12.6 Endocrine disrupting properties

#### Product:

Assessment

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.

#### **Components:**

## Nonylphenol, ethoxylated:

Assessment :	The substance is considered to have endocrine disrupting properties according to REACH Article 57(f) for the environment.
--------------	---

## **SECTION 13: Disposal considerations**

13.1 Waste treatment methods	
Product	<ul> <li>Dispose of in accordance with local regulations.</li> <li>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.</li> <li>Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.</li> <li>Do not dispose of waste into sewer.</li> </ul>
Contaminated packaging	<ul> <li>Empty containers should be taken to an approved waste han- dling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>

## **SECTION 14: Transport information**

#### 14.1 UN number or ID number

ADN	:	UN 3082
ADR	:	UN 3082
RID	:	UN 3082
IMDG	:	UN 3082



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14.2	IATA 2 UN pro	oper shipping name	:	UN 3082	
_	ADN		:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
	ADR				oxylated, amitraz (ISO)) ALLY HAZARDOUS SUBSTANCE, LIQUID,
I			•	N.O.S.	ioxylated, amitraz (ISO))
I	RID		:		ALLY HAZARDOUS SUBSTANCE, LIQUID,
I	I				oxylated, amitraz (ISO))
_	IMDG		:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,
	-				oxylated, amitraz (ISO))
I	ΙΑΤΑ		:		nazardous substance, liquid, n.o.s. noxylated, amitraz (ISO))
14.3	14.3 Transport hazard class(es)				
				Class	Subsidiary risks
	ADN		:	9	
	ADR		:	9	
	RID		:	9	
	IMDG		:	9	
	ΙΑΤΑ		:	9	
14.4	Packir	ng group			
	Classif	g group ication Code d Identification Number	::	III M6 90 9	
	Classif Hazaro Labels	g group ication Code d Identification Number I restriction code	:	III M6 90 9 (-)	
	Classif	g group ication Code d Identification Number	: : :	III M6 90 9	
	Packin	g group	:	111	



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	Labels EmS C	ode	:	9 F-A, S-F	
	IATA (C Packing aircraft)	g instruction (cargo	:	964	
		g instruction (LQ)	:	Y964 III Miscellaneous	
		Passenger) g instruction (passen-	:	964	
	Packing	g instruction (LQ) g group	:	Y964 III Miscellaneous	
14.5	14.5 Environmental hazards				
	<b>ADN</b> Enviror	mentally hazardous	:	yes	
	<b>ADR</b> Enviror	mentally hazardous	:	yes	
	<b>RID</b> Enviror	mentally hazardous	:	yes	
	<b>IMDG</b> Marine	pollutant	:	yes	
	•	Passenger) Imentally hazardous	:	yes	
	IATA (O Enviror	Cargo) Imentally hazardous	:	yes	
	<b>.</b> .				

#### 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	:	Conditions of restriction for the fol-
the market and use of certain dangerous substances,		lowing entries should be considered:
mixtures and articles (Annex XVII)		Number on list 75, 3

Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their

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



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REA(	CH - Restrictions on th	e manufacture, placing c in dangerous substance	on	rest tion dete	riction. Pleases in correspondent s in correspondent ermine whether the places of the	the conditions of the se refer to the condi- onding Regulation to her an entry is appli- cing on the market or
mixtu	res and articles (Anne	x XVII)	σ,		oo ink, pleas	use this product as e contact your ven-
					nylphenol, et ist 46b, 46a.	hoxylated (Number )
		Substances of Very High	n :	Nor	nylphenol, et	hoxylated
REAC		s subject to authorisation	ı :	Nor	nylphenol, et	hoxylated
Regu		009 on substances that o	de- :	Not	applicable	
Regu		on persistent organic po	ollu- :	Not	applicable	
Regu ment of da	and the Council conce ngerous chemicals	12 of the European Parli erning the export and imp 8/EU of the European P	oort	Nor	traz (ISO) nylphenol, et	
		olving dangerous substa				
E1		ENVIRONMENT HAZARDS	AL		uantity 1 00 t	Quantity 2 200 t
34		Petroleum produc gasolines and na (b) kerosenes (in fuels), (c) gas oils ing diesel fuels, h heating oils and g blending streams heavy fuel oils (e tive fuels serving purposes and wit properties as reg flammability and mental hazards a products referred points (a) to (d)	phthas, cluding j s (includ nome gas oil ),(d) ) alterna the sam h simila ards environ- is the	jet  - a- ne r	.500 t	25.000 t

#### Other regulations:

Note the Working Environment Act § 4-1 and § 4-2 on requirements for the employer to protect pregnant employees against discomfort and injury as a result of the work situation and the working environment.



Commission Regulation (EU) 2020/878

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Note the regulation on organization, leadership and participation, chapter 12 on the work of children and young people.

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

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

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information	tion		
Other information	: Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.		
Full text of H-Statements			
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.		
H341	: Suspected of causing genetic defects.		
H373	: May cause damage to organs through prolonged or repeated exposure.		
H400	: Very toxic to aquatic life.		
H410	: Very toxic to aquatic life with long lasting effects.		
H411	: Toxic to aquatic life with long lasting effects.		
H412	: Harmful to aquatic life with long lasting effects.		
EUH066	: Repeated exposure may cause skin dryness or cracking.		
Full text of other abbreviations			
Acute Tox.	: Acute toxicity		
Aquatic Acute	: Short-term (acute) aquatic hazard		
Aquatic Chronic	: Long-term (chronic) aquatic hazard		
Asp. Tox.	: Aspiration hazard		
Eye Dam.	: Serious eye damage		
Muta.	: Germ cell mutagenicity		
Skin Sens.	: Skin sensitisation		
STOT RE	: Specific target organ toxicity - repeated exposure		
STOT SE	: Specific target organ toxicity - single exposure		
FOR-2011-12-06-1358	: Norway. Occupational Exposure limits		
FOR-2011-12-06-1358 / TWA	: Long term exposure limit		
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland			

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



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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 - 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; 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

#### Further information

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

Classification of the r	Classification procedure:	
Acute Tox. 4	H302	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Muta. 2	H341	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

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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.

NO / EN