

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
4.0	28.09.2024	10660108-00007	Date of first issue: 09.04.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Amitraz (50%) Solid Formulation

Other means of identification : COOPERS AMITIK CATTLE DIP AND SPRAY (41044)

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	H302: Harmful if swallowed.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Germ cell mutagenicity, Category 2	H341: Suspected of causing genetic defects.
Carcinogenicity, Category 1B	H350: May cause cancer.
Specific target organ toxicity - repeated	H373: May cause damage to organs through pro-
exposure, Category 2	longed or repeated exposure.
Short-term (acute) aquatic hazard, Cate-	H400: Very toxic to aquatic life.
gory 1	
Long-term (chronic) aquatic hazard, Cat-	H410: Very toxic to aquatic life with long lasting

effects.

2.2 Label elements

egory 1

Labelling (REGULATION (EC) No 1272/2008)

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



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Hazar	d pictograms			
Signa	l word	: Dang	jer	• • •
Hazar	d statements	: H302 H317 H318 H347 H350 H373 repe H410	May caus Causes so Suspected May caus May caus May caus	e damage to organs through prolonged or
Preca	utionary statements	: Prev	ention:	
		P201 P260 P273 P280 tion/	Do not bre Avoid rele	ecial instructions before use. eathe dust. ase to the environment. ective gloves/ protective clothing/ eye protec- on.
		P305 with sent	water for sevent of a seven and easy to a solution of the seven and the seven as a se	

Hazardous components which must be listed on the label: amitraz (ISO)

Nonylphenol, ethoxylated Paraformaldehyde

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.

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.

May form explosive dust-air mixture during processing, handling or other means.



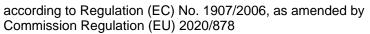
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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
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 M-Factor (Acute	>= 50 - < 70
		aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
Nonylphenol, ethoxylated	9016-45-9	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2,5
		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	
Paraformaldehyde	30525-89-4	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1A; H317 Muta. 2; H341 Carc. 1B; H350 STOT SE 3; H335 specific concentra-	>= 1 - < 3
		tion limit Skin Sens. 1A; H317 >= 0,2 %	





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			Acute toxicity esti- mate	
			Acute oral toxicity: 592 mg/kg	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measu	lre	8
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. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
4.2 Most important symptoms an	nd e	effects, both acute and delayed
Risks	:	Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing genetic defects. May cause cancer. May cause damage to organs through prolonged or repeated exposure.
-		dical 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	the	e substance or mixture
	Specific hazards during fire- fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.
	Hazardous combustion prod- ucts	:	Carbon oxides Sulphur oxides Metal oxides
5.3	Advice for firefighters		
	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. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.



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6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	 Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national 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

Technical measures	ca Pro	atic electricity may accumulate and ignite suspended dust using an explosion. ovide adequate precautions, such as electrical grounding d bonding, or inert atmospheres.
Local/Total ventilation	: Ifs	sufficient ventilation is unavailable, use with local exhaust ntilation.
Advice on safe handling	: Do Do Do Wa Ha pra se: Ke Ke Pro Mii Ke Ta Do	 not get on skin or clothing. not breathe dust. not swallow. not get in eyes. ash skin thoroughly after handling. ndle in accordance with good industrial hygiene and safety actice, based on the results of the workplace exposure assement ep container tightly closed. ep away from water. btect from moisture. nimize dust generation and accumulation. ep container closed when not in use. ep away from heat and sources of ignition. ke precautionary measures against static discharges. not eat, drink or smoke when using this product.
Hygiene measures	: If e flua pla Wa	vironment. exposure to chemical is likely during typical use, provide eye shing systems and safety showers close to the working uce. When using do not eat, drink or smoke. Contaminated rk clothing should not be allowed out of the workplace. ash contaminated clothing before re-use. e effective operation of a facility should include review of



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		appropria industria	ing controls, proper personal protective equipment, ate degowning and decontamination procedures, hygiene monitoring, medical surveillance and the Iministrative controls.
7.2 Condi	tions for safe storage,	including an	y incompatibilities
	irements for storage and containers		properly labelled containers. Store locked up. Keep psed. Store in accordance with the particular national ns.
Advic	ce on common storage	Strong o Self-read	tore with the following product types: xidizing agents trive substances and mixtures peroxides es
-	fic end use(s)	· No doto	available
Spec	ific use(s)	: No data	avaliable

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Expos	ure Limits			
Dust		5 mg/m3 Value type (Form of ex Basis: FOR-2011-12-0	kposure): TWA (respirable du 06-1358	ıst)
		10 mg/m3 Value type (Form of ex Basis: FOR-2011-12-0	kposure): TWA (total dust) l6-1358	
O a man a manta		Malua tura (Earna	Control a casa at cas	Deele

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
amitraz (ISO)	33089-61-1	TWA	10 µg/m3 (OEB 3)	Internal
		Wipe limit	1250 μg/100 cm²	Internal

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Formaldehyde	50-00-0	TWA	0,3 ppm 0,37 mg/m3	FOR-2011- 12-06-1358
	Further information: Substances considered to be carcinogenic, Substances considered to evoke allergies when coming into touch with the eyes or airways or evoking allergies after coming into contact with the skin			eyes or air-
		STEL	0,6 ppm 0,74 mg/m3	FOR-2011- 12-06-1358
	Further information: Substances considered to be carcinogenic, Substances considered to evoke allergies when coming into touch with the eyes or air-			



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ways	ways or evoking allergies after coming into contact with the skin				
	TWA	0,3 ppm	2004/37/EC		
		0,37 mg/m3			
Furth	Further information: Dermal sensitisation, Carcinogens or mutagens				
	STEL	0,6 ppm	2004/37/EC		
	0,74 mg/m3				
Furth	Further information: Dermal sensitisation, Carcinogens or mutagens				

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Calcium carbonate	Workers	Inhalation	Long-term systemic effects	6,36 mg/m3
	Consumers	Ingestion	Acute systemic ef- fects	6,1 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,06 mg/m3
	Consumers	Ingestion	Long-term systemic effects	6,1 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Calcium carbonate	Sewage treatment plant	100 mg/l

8.2 Exposure controls

Engineering measures

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.
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	:	If adequate local exhaust ventilation is not available or expo-



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Fil	ter type	ommended guid Equipment shou	nt demonstrates exposures outside the rec- lelines, use respiratory protection. Ild conform to NS EN 14387 culates and inorganic gas/vapour type (B-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	• •
Colour	:	white
		grey
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)	:	May form explosive dust-air mixture during processing, han- dling or other means.
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	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	No data available
Viscosity Viscosity, kinematic	:	Not applicable
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n-	:	Not applicable

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	octanol	/water			
	Vapour	pressure	:	Not applicable	
	Relativ	e density	:	No data available	e
	Density	/	:	No data available	e
	Relativ	e vapour density	:	Not applicable	
		e characteristics ticle size	:	No data available	e
9.2 0	Other in	nformation			
	Explosi	ves	:	Not explosive	
	Oxidiziı	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Evapor	ation rate	:	Not applicable	
	Molecu	lar 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 :	May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents. Hazardous decomposition products will be formed upon con- tact with water or humid air.
10.4 Conditions to avoid	
Conditions to avoid :	Exposure to moisture Heat, flames and sparks. Avoid dust formation.
10.5 Incompatible materials	
Materials to avoid :	Oxidizing agents Water
10.6 Hazardous decomposition prod	lucte

10.6 Hazardous decomposition products

Contact with water or humid	:	Formaldehyde
air		



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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Information on likely routes of : Inhalation exposure Skin contact Ingestion Eye contact Acute toxicity Harmful if swallowed. **Product:** : Acute toxicity estimate: 946,17 mg/kg Acute oral toxicity Method: Calculation method Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method Components: amitraz (ISO): Acute oral toxicity : LD50 (Rat): > 400 mg/kg LD50 (Mouse): > 1.085 mg/kg LD50 (Guinea pig): > 400 mg/kg Acute inhalation toxicity Remarks: No data available Acute dermal toxicity : LD50 (Rat): > 1.600 mg/kg Nonylphenol, ethoxylated: Acute oral toxicity LD50 (Rat): 500 - 2.000 mg/kg : Paraformaldehyde: Acute oral toxicity : LD50 (Rat, male): 592 mg/kg Acute inhalation toxicity LC50 (Rat): 1,07 mg/l : Exposure time: 4 h Test atmosphere: dust/mist : LD50 (Rat): > 10.000 mg/kg Acute dermal toxicity

Skin corrosion/irritation

Not classified based on available information.



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	Compo	onents:			
	amitraz				
	Species Result		:	Rabbit No skin irritation	
	Nonylp	henol, ethoxylated:			
	Species Method Result	8	:	Rabbit OECD Test Guide No skin irritation	line 404
	Parafo	rmaldehyde:			
I	Species Result		:	Rabbit Skin irritation	
		s eye damage/eye irri serious eye damage.	tati	on	
	Compo				
	amitraz	z (ISO):			
	Species Result	3	:	Rabbit No eye irritation	
	Nonylp	henol, ethoxylated:			
	Species Method		:	Rabbit OECD Test Guide	ling 405
	Result		:	Irreversible effects	
	Parafo	rmaldehyde:			
	Species Result		:	Rabbit Irreversible effects	s on the eye
	Respira	atory or skin sensitis	atio	n	
		ensitisation use an allergic skin rea	actic	n.	
	-	atory sensitisation ssified based on availa	ble	information.	
	Compo	onents:			
	amitraz	z (ISO):			
	Test Ty Exposu	pe re routes	:	Maximisation Test	t
	Species		:	Guinea pig	
	Result		:	Sensitiser	

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Nonvi	phenol, ethoxylated:			
Test T	ype ure routes es	:	Maximisation Tes Skin contact Guinea pig negative Based on data fro	t om similar materials
Parafo	ormaldehyde:			
Test T	ype ure routes es rks			e assay (LLNA) om similar materials dence of high skin sensitisation rate in hu-
Germ	cell mutagenicity		mano	
	ected of causing genetic	c def	ects.	
<u>Comp</u>	onents:			
	az (ISO):			
Genot	oxicity 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: Chron Result: negative	nosome aberration test in vitro
				lamage and repair, unscheduled DNA syn- ian cells (in vitro)
Nonyl	phenol, ethoxylated:			
Genot	oxicity in vitro	:	Result: negative	rial reverse mutation assay (AMES) on data from similar materials
Parafo	ormaldehyde:			
Genot	oxicity in vitro	:	Result: positive	rial reverse mutation assay (AMES) on data from similar materials
			Result: positive	o mammalian cell gene mutation test on data from similar materials

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			Result: positive	nicronucleus test
			thesis in mammal Result: positive	lamage and repair, unscheduled DNA syn- ian cells (in vitro) on data from similar materials
			malian cells Result: positive	o sister chromatid exchange assay in mam-
Geno	otoxicity in vivo		cytogenetic assay Species: Rat Application Route Result: positive	nalian erythrocyte micronucleus test (in vivo) : inhalation (vapour) on data from similar materials
			cytogenetic assay Species: Rat Application Route Result: positive	
	n cell mutagenicity- As- ment		Positive result(s) f genicity tests.	irom in vivo mammalian somatic cell muta-
	inogenicity cause cancer.			
<u>Com</u>	ponents:			
Spec Appli	ication Route osure time EL	:	Rat Oral 2 Years > 10,18 mg/kg bo negative	dy weight
LOAI Resu	osure time EL	:	Mouse 2 Years 2,3 mg/kg body w positive Liver, Stomach	eight
Para	formaldehyde:			
Spec Appli	cation Route		Rat Ingestion	

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Expos Resul	sure time t	:	105 weeks negative	
	cation Route sure time t		Rat Inhalation 28 Months positive Based on data fro	om similar materials
Carcir ment	nogenicity - Assess-	:	Sufficient evidence	ce of carcinogenicity in animal experiments
Not cl	oductive toxicity assified based on avail ponents:	able	information.	
amitr	az (ISO):			
	s on fertility	:	Species: Rat Application Route Fertility: NOAEL:	-generation reproduction toxicity study e: Oral > 4,8 mg/kg body weight cant adverse effects were reported
Effect ment	s on foetal develop-	:	Species: Rat Application Route Developmental T Remarks: No sign Test Type: Embry Species: Rabbit Application Route	oxicity: NOAEL: 3 mg/kg body weight nificant adverse effects were reported vo-foetal development e: Oral
				oxicity: NOAEL: 5 mg/kg body weight n foetal development
STOT	- single exposure assified based on avail	abla	information	
	oonents:	abie	intornation.	
Asses	ormaldehyde: ssment	:	May cause respir	atory irritation.
	- repeated exposure cause damage to organ	s thr	ough prolonged or	repeated exposure.
Comp	ponents:			
amitra	az (ISO):			
Targe	t Organs ssment	:	Liver, Central ner May cause dama exposure.	vous system ge to organs through prolonged or repeated

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Repeated dose toxicity

Components:

amitraz (ISO):

Species	: Mouse
NOAEL	: 3 mg/kg
Application Route	: Oral
Exposure time	: 90 Days
Target Organs	: Liver
Species	: Dog
NOAEL	: 0,25 mg/kg
Application Route	: Oral
Exposure time	: 90 Days
Target Organs	: Central nervous system, Liver

Paraformaldehyde:

Species NOAEL Application Route Exposure time Remarks	:	Rat, male
NOAEL	:	15 mg/kg
Application Route	:	Ingestion
Exposure time	:	105 Weeks
Remarks	:	Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

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



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SECTION 12: Ecological information

12.1 Toxicity

Components:

amitraz (ISO):		
Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,45 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0,035 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	NOEC (Pseudokirchneriella subcapitata (green algae)): 0,04 mg/l Exposure time: 91 h
M-Factor (Acute aquatic tox- icity)	:	10
Toxicity to fish (Chronic tox- icity)	:	NOEC: 0,00148 mg/l Exposure time: 32 d Species: Pimephales promelas (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: 0,0011 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
M-Factor (Chronic aquatic toxicity)	:	10
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

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Toxi icity)	city to fish (Chronic tox-	:	Exposure time: 10 Species: Oryzias	
aqua	city to daphnia and other atic invertebrates (Chron- xicity)	:	NOEC: > 0,001 - Exposure time: 28 Species: Mysidop Remarks: Based	
M-Fa	actor (Chronic aquatic ity)	:	10	
	formaldehyde:			
	city to fish	:	LC50 : > 1 mg/l Exposure time: 96 Remarks: Based	ծ հ on data from similar materials
	city to daphnia and other atic invertebrates	:	Exposure time: 48 Method: OECD T	
Toxi plan	city to algae/aquatic ts	:	Exposure time: 72 Method: OECD T	
Toxi	city to microorganisms	:	EC50 : > 10 mg/l Exposure time: 3 Method: OECD T Remarks: Based	
Toxi icity)	city to fish (Chronic tox-	:		3 d latipes (Orange-red killifish) on data from similar materials
aqua	city to daphnia and other atic invertebrates (Chron- xicity)	:	Method: OECD T	magna (Water flea)
•• 12 2 Borr	sistence and degradabil	i4\/		

12.2 Persistence and degradability

Components:

Nonylphenol, ethoxylated:

adily biodegradable. sed on data from similar materials



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Paraf	ormaldehyde:		
Biode	gradability		ly biodegradable. sed on data from similar materials
12.3 Bioad	ccumulative potential		
Comp	oonents:		
amitra	az (ISO):		
Bioac	cumulation		omis macrochirus (Bluegill sunfish) ion factor (BCF): 1.333
	on coefficient: n- ol/water	: log Pow: 5,5	
	Iphenol, ethoxylated:		
	on coefficient: n- ol/water	: log Pow: 4,48	
	ormaldehyde:		
	on coefficient: n- ol/water	: log Pow: -1,40 Remarks: Cal	
12.4 Mobi	lity in soil		
<u>Comp</u>	oonents:		
amitra	az (ISO):		
	oution among environ- al compartments	: log Koc: 3,3	
12.5 Resu	Its of PBT and vPvB a	assessment	
<u>Produ</u>			
Asses	ssment	to be either pe	e/mixture contains no components considered ersistent, bioaccumulative and toxic (PBT), or t and very bioaccumulative (vPvB) at levels of r.
12.6 Endo	crine disrupting prop	erties	
<u>Produ</u>			
Asses	ssment	have endocrin ing to REACH	e/mixture contains components considered to ne disrupting properties for environment, accord- l Article 57(f), Commission Regulation (EU) Commission Delegated Regulation (EU)
<u>Comp</u>	oonents:		
	Iphenol, ethoxylated:		
Asses	ssment	: The substance	e is considered to have endocrine disrupting
		19/2	05



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		properties accor ment.	ding to REACH Article 57(f) for the environ-
	r adverse effects ata available		

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

SECTION 14: Transport information

14.1 UN number or ID number

ADN	:	UN 3077
ADR	:	UN 3077
RID	:	UN 3077
IMDG	:	UN 3077
ΙΑΤΑ	:	UN 3077
14.2 UN proper shipping name		
ADN	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (amitraz (ISO), Nonylphenol, ethoxylated)
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (amitraz (ISO), Nonylphenol, ethoxylated)
RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (amitraz (ISO), Nonylphenol, ethoxylated)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (amitraz (ISO), Nonylphenol, ethoxylated)
ΙΑΤΑ	:	Environmentally hazardous substance, solid, n.o.s. (amitraz (ISO), Nonylphenol, ethoxylated)

14.3 Transport hazard class(es)

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



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				Class	Subsidiary risks
			:	9	
	ADR		:	9	
	RID		:	9	
	IMDG		:	9	
	ΙΑΤΑ		:	9	
14.4	Packin	g group			
	Classifi	g group cation Code Identification Number	: : :	III M7 90 9	
	Classifi Hazard Labels	g group cation Code Identification Number restriction code		III M7 90 9 (-)	
	Classifi	g group cation Code Identification Number	:	III M7 90 9	
	IMDG Packing Labels EmS C	g group ode	:	III 9 F-A, S-F	
l	IATA ((Packing aircraft)	g instruction (cargo	:	956	
	Packing	g instruction (LQ) g group	:	Y956 III Miscellaneous	
	Packing ger airc	Passenger) g instruction (passen- :raft)	:	956	
	Packing	g instruction (LQ) g group	:	Y956 III Miscellaneous	
14.5	Enviro	nmental hazards			
	ADN Enviror	mentally hazardous	:	yes	
	ADR Enviror	mentally hazardous	:	yes	



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RID

Environmentally hazardous	:	yes	
IMDG Marine pollutant	:	yes	
IATA (Passenger) Environmentally hazardous	:	yes	
IATA (Cargo)			

Environmentally 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 fol- lowing entries should be considered: Number on list 46b: Nonylphenol, ethoxylated
		Number on list 46a.: Nonylphenol, ethoxylated
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)		Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)		Number on list 77: Paraformalde- hyde
		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 condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Nonylphenol, ethoxylated

Commission Regulation (EU) 2020/878

according to Regulation (EC) No. 1907/2006, as amended by



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	CH - List of substances ex XIV)	s subject to authorisation	n :	Nonylphenol, eti	noxylated
Regulation (EC) on substances that deplete the ozone layer				Not applicable	
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)			ollu- :	Not applicable	
Regulation (EU) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals				amitraz (ISO) Nonylphenol, etl	noxylated
Seve	eso III: Directive 2012/1	8/EU of the European P plving dangerous substa		nt and of the Counc	cil on the control of
E 4				Quantity 1	Quantity 2

E1	ENVIRONMENTAL	100 t	200 t
	HAZARDS		

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.

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

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.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H332	:	Harmful if inhaled.
H335	:	May cause respiratory irritation.
H341	:	Suspected of causing genetic defects.
H350	:	May cause cancer.
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.

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



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Full text of other abbreviations

Acute Tox. Aquatic Acute Aquatic Chronic Carc. Eye Dam. Muta. Skin Irrit. Skin Sens. STOT RE STOT SE 2004/37/EC		Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Carcinogenicity Serious eye damage Germ cell mutagenicity Skin irritation Skin sensitisation Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
FOR-2011-12-06-1358 2004/37/EC / STEL 2004/37/EC / TWA	:	Norway. Occupational Exposure limits Short term exposure limit Long term exposure limit
FOR-2011-12-06-1358 / TWA	:	Long term exposure limit
FOR-2011-12-06-1358 / STEL		Short term exposure limit

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 - 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



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- 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 Sheet		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/
Classification of the mixtur	re:	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
Carc. 1B	H350	Calculation method
STOT RE 2	H373	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