

Amitraz (50%) Solid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
5.0	28.09.2024	10660101-00008	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 Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom
Telephone	:	+1-908-740-4000
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) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Acute toxicity, Category 4 Serious eye damage, Category 1 Skin sensitisation, Category 1 Germ cell mutagenicity, Category 2 Carcinogenicity, Category 1B Specific target organ toxicity - repeated exposure, Category 2 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1 H302: Harmful if swallowed.
H318: Causes serious eye damage.
H317: May cause an allergic skin reaction.
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.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :		
Signal word :	Danger	• •
Hazard statements :	H302 H317 H318 H341 H350 H373 H410	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. Very toxic to aquatic life with long lasting effects.
Precautionary statements :	Prevention	:
	P201 P260 P273 P280	Obtain special instructions before use. Do not breathe dust. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.
	Response	
	P305 + P35 P391	51 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rins- ing. Immediately call a POISON CENTER/ doctor. Collect spillage.

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.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name CAS-No. Classification Concentration	Chemical name	CAS-No.	Classification	Concentration
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		EC-No. Index-No. Registration number		(% w/w)
amitra	az (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	>= 50 - < 7
			M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
Nonyl	phenol, ethoxylated	9016-45-9	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute	>= 1 - < 2
			aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	
Paraf	ormaldehyde	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	>= 1 - < 3
			specific concentra- tion limit Skin Sens. 1A; H317 >= 0.2 % Skin Sens. 1A; H317 >= 0.2 %	
Subst	ances with a workplace	exposure limit :		

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid meas	sure	S		
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 a	4.2 Most important symptoms and 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.		
1.3 Indication of any immediate	mo	dical attention and special treatment needed		
Treatment	:	Treat symptomatically and supportively.		
SECTION 5: Firefighting measures 5.1 Extinguishing media				

Suitable extinguishing media : Water spray

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				Alcohol-resistant t Carbon dioxide (C Dry chemical	
	Unsuita media	ble extinguishing	:	None known.	
5.2 \$	Special	hazards arising from	the	substance or mix	xture
	Specific fighting	c hazards during fire-	:	concentrations, ar potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. pustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Sulphur oxides Metal oxides	
5.3 /	Advice	for firefighters			
	Special for firef	protective equipment ghters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
	Specific ods	c 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, prote	ective	e 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. If spillage enters rivers or watercourses, inform the Environ- ment Agency (emergency telephone number 0800 807060).
6.3 Methods and material for co	ontai	nment and cleaning up
Methods for cleaning up	:	Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces

Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are re-

with compressed air).



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		Local or nationa posal of this ma employed in the mine which regu Sections 13 and	atmosphere in sufficient concentration. Il regulations may apply to releases and dis- terial, as well as those materials and items e cleanup of releases. You will need to deter- ulations are applicable. If 15 of this SDS provide information regarding national requirements.

6.4 Reference to other sections

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

7.1 Precautions for safe handling

	5
Technical measures	 Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding
	and bonding, or inert atmospheres.
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	: Do not get on skin or clothing.
/ aviou on bare handling	Do not breathe dust.
	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.
	Keep away from water.
	Protect from moisture.
	Minimize dust generation and accumulation.
	Keep container closed when not in use.
	Keep away from heat and sources of ignition.
	Take precautionary measures against static discharges.
	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,	
1.2 Conditions for sale storage,	

Requirements for storage	:	Keep in properly labelled containers. Store locked up. Keep
areas and containers		tightly closed. Store in accordance with the particular national



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		regulations.	
Advice on common storage		Strong oxidizing	ostances and mixtures
•	c end use(s) ic use(s)	: No data available	e

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits	
dust of any kind	10 mg/m3 Value type (Form of exposure): TWA (Inhalable) Basis: GB EH40
	4 mg/m3 Value type (Form of exposure): TWA (Respirable fraction) Basis: GB EH40

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
amitraz (ISO)	33089-61-1	TWA	10 µg/m3 (OEB 3)	Internal
		Wipe limit	1250 µg/100 cm²	Internal
Calcium carbonate	471-34-1	TWA (inhalable dust)	10 mg/m3	GB EH40
		TWA (Respirable dust)	4 mg/m3	GB EH40

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Formaldehyde	50-00-0	TWA	2 ppm 2.5 mg/m3	GB EH40
	Further inform	nation: Capable of ca	ausing cancer and/or heritabl	e genetic dam-
	age.	-	_	-
		STEL	2 ppm	GB EH40
			2.5 mg/m3	
	Further information: Capable of causing cancer and/or heritable ge age.		e genetic dam-	
		TWA	0.3 ppm	2004/37/EC
			0.37 mg/m3	
	Further information: Dermal sensitisation, Carcinogens or mutagens			agens
		STEL	0.6 ppm	2004/37/EC



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	Furth	er information: Dermal	0.74 mg/m3 sensitisation, Carcinogens or mutage	ns

Derived No Effect Level (DNEL)

	· · ·			
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)

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
Respiratory protection	:	contaminated clothing. 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 BS EN 14387
Filter type	:	Combined particulates and inorganic gas/vapour type (B-P)



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour	:	powder white grov
Odour Odour Threshold	:	grey No data available No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	No data available
Density	:	No data available
Solubility(ies)		N
Water solubility Partition coefficient: n-	:	No data available Not applicable
octanol/water Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

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Flamr	information nability (liquids) cular weight le size	 No data availab No data availab No data availab 	le	

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 products		

iposition p

Contact with water or humid	:	Formaldehyde
air		

SECTION 11: Toxicological information

11.1 Information on toxicological Information on likely routes of	11.1 Information on toxicological effects Information on likely routes of : Inhalation					
exposure	•	Skin contact Ingestion Eye contact				
Acute toxicity Harmful if swallowed.						
Product: Acute oral toxicity	:	Acute toxicity estimate: 946.17 mg/kg				



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			Method: Calculati	on method
Acute	Acute inhalation toxicity		Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method	
Comp	oonents:			
	az (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	a available
Acute	dermal toxicity	:	LD50 (Rat): > 1,6	00 mg/kg
	Iphenol, ethoxylated: oral toxicity	:	LD50 (Rat): 500 -	2,000 mg/kg
Paraf	ormaldehyde:			
Acute	oral toxicity	:	LD50 (Rat, male):	: 592 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 1.07 Exposure time: 4 Test atmosphere:	h
Acute	dermal toxicity	:	LD50 (Rat): > 10,	000 mg/kg
Calci	um carbonate:			
Acute	oral toxicity	:	LD50 (Rat): > 2,0 Method: OECD To Assessment: The icity	
Acute	inhalation toxicity	:	LC50 (Rat): > 3 m Exposure time: 4 Test atmosphere: Method: OECD To Assessment: The tion toxicity	h dust/mist
Acute	dermal toxicity	:	LD50 (Rat): > 2,0 Method: OECD T Assessment: The toxicity	

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Skin	corrosion/irritation			
Not c	lassified based on avai	lable	information.	
Com	ponents:			
amitr	az (ISO):			
Spec	ies	:	Rabbit	
Resu		:	No skin irritation	
Nony	Iphenol, ethoxylated:			
Spec		:	Rabbit	
Meth		:	OECD Test Guide	eline 404
Resu	lt	:	No skin irritation	
Para	formaldehyde:			
Spec		:	Rabbit	
Resu		:	Skin irritation	
Calci	um carbonate:			
Spec	ies		Rabbit	
Meth		÷	OECD Test Guide	eline 404
Resu		:	No skin irritation	
Caus <u>Com</u>			i on Rabbit No eye irritation	
Nony	Iphenol, ethoxylated:			
Spec		:	Rabbit	
Meth		:	OECD Test Guide	eline 405
Resu	lt	:	Irreversible effect	s on the eye
Parat	formaldehyde:			
Spec	ies	:	Rabbit	
Resu	lt	:	Irreversible effect	s on the eye
Calci	um carbonate:			
Spec	ies	:	Rabbit	
Meth		:	OECD Test Guide	eline 405
Resu		:	No eye irritation	

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Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

amitraz (ISO):

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

Nonylphenol, ethoxylated:

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

Paraformaldehyde:

Local lymph node assay (LLNA)
Skin contact
Mouse
positive
Based on data from similar materials

Assessment

: Probability or evidence of high skin sensitisation rate in humans

Calcium carbonate:

Test Type Exposure routes Species Method Result	:	Local lymph node assay (LLNA)
Exposure routes	:	Skin contact
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	negative

Germ cell mutagenicity

Suspected of causing genetic defects.

Components:

amitraz (ISO):

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: In vitro mammalian cell gene mutation test Result: negative

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		R Te th	esult: negative est Type: DNA d	osome aberration test in vitro amage and repair, unscheduled DNA syn- an cells (in vitro)
Nonv	Iphenol, ethoxylated:			
	toxicity in vitro	R	esult: negative	ial reverse mutation assay (AMES) on data from similar materials
Paraf	ormaldehyde:			
	toxicity in vitro	R	esult: positive	ial reverse mutation assay (AMES) on data from similar materials
		R	esult: positive	mammalian cell gene mutation test on data from similar materials
		R	esult: positive	micronucleus test on data from similar materials
		th Re	esis in mammali esult: positive	amage and repair, unscheduled DNA syn- an cells (in vitro) on data from similar materials
		m Re	alian cells esult: positive	sister chromatid exchange assay in mam- on data from similar materials
Geno	Genotoxicity in vivo		rtogenetic assay pecies: Rat pplication Route esult: positive	alian erythrocyte micronucleus test (in vivo) : inhalation (vapour) on data from similar materials
		cy Sj Aj Ri	vtogenetic assay pecies: Rat pplication Route esult: positive	
Germ sessn	cell mutagenicity- As- nent		ositive result(s) f enicity tests.	rom in vivo mammalian somatic cell muta-



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II			
Calci	ium carbonate:		
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 tes Method: OECD Test Guideline 476 Result: negative	st
	inogenicity cause cancer.		
•	ponents:		
amitı	raz (ISO):		
Spec Appli	ies cation Route sure time EL	: Rat : Oral : 2 Years : > 10.18 mg/kg body weight : negative	
LOAI Resu	sure time EL	 Mouse 2 Years 2.3 mg/kg body weight positive Liver, Stomach 	
Para	formaldehyde:		
Spec Appli	ies cation Route sure time	: Rat : Ingestion : 105 weeks : negative	
Spec Appli Expo Resu Rema	cation Route sure time It	 Rat Inhalation 28 Months positive Based on data from similar materials 	
Carci ment	inogenicity - Assess-	: Sufficient evidence of carcinogenicity in animal expe	riments
Repr	oductive toxicity		
-	-		

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<u>Co</u>	mponents:			
am	nitraz (ISO):			
	ects on fertility	:	Species: Rat Application Route Fertility: NOAEL:	generation reproduction toxicity study : Oral > 4.8 mg/kg body weight cant adverse effects were reported
Eff me	ects on foetal develop- ent	:	Species: Rat Application Route Developmental To	ro-foetal development :: Oral oxicity: NOAEL: 3 mg/kg body weight nificant adverse effects were reported
			Species: Rabbit Application Route Developmental To	ro-foetal development : Oral oxicity: NOAEL: 5 mg/kg body weight foetal development
Ca	Icium carbonate:			
Eff	ects on fertility	:		
me	ects on foetal develop- ent	:	Test Type: Embry Species: Rat Application Route Method: OECD To Result: negative	
II ST	OT - single exposure			
No	t classified based on availa	able	information.	
<u>Co</u>	mponents:			
	raformaldehyde: sessment	:	May cause respira	atory irritation.
	OT - repeated exposure by cause damage to organs	s thr	ough prolonged or	repeated exposure.
<u>Co</u>	mponents:			
am	hitraz (ISO):			
	rget Organs sessment	:	Liver, Central ner May cause damag exposure.	vous system ge to organs through prolonged or repeated
			16/26	

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Repeated dose toxicity

Components:

amitraz (ISO):

Species	: Mouse
NOAEL	: 3 mg/kg
Application Route	: Oral
Exposure time	: 90 Days
Application Route Exposure time Target Organs	: Liver
Species	: Dog
NOAEL	: 0.25 mg/kg
Application Route	: Oral
Exposure time	: 90 Days
NOAEL Application Route Exposure time Target Organs	: Central nervous system, Liver
Paraformaldehyde:	
Species	: Rat, male

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

Calcium carbonate:

Species	: Rat
NOAEL	: > 1,000 mg/kg
Application Route	: Ingestion
Exposure time	: 28 Days
Species NOAEL Application Route Exposure time Method	: OECD Test Guideline 422

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

amitraz (ISO):

Ingestion

: Target Organs: Central nervous system

SECTION 12: Ecological information

12.1 Toxicity

Components:

amitraz (ISO):

Toxicity to fish

: LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.45 mg/l

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II			Exposure time: 96	5 h
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.035 mg/l 3 h
Toxicit plants	ty to algae/aquatic	:	NOEC (Pseudokin mg/l Exposure time: 91	rchneriella subcapitata (green algae)): 0.04 I h
M-Fac icity)	tor (Acute aquatic tox-	:	10	
Toxicit icity)	ty to fish (Chronic tox-	:	NOEC: 0.00148 n Exposure time: 32 Species: Pimepha	
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 21	
M-Fac toxicity	tor (Chronic aquatic	:	10	
Nonyl	phenol, ethoxylated:			
Toxicit	ty to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 0.1 - 1 mg/l 5 h on data from similar materials
	ty to daphnia and other c invertebrates	:	Exposure time: 48	nia dubia (water flea)): > 0.1 - 1 mg/l 3 h on data from similar materials
Toxicit plants	ty to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD To	
			Exposure time: 72 Method: OECD Te	
M-Fac icity)	tor (Acute aquatic tox-	:	1	
Toxicit icity)	ty to fish (Chronic tox-	:	NOEC: > 0.1 - 1 r Exposure time: 10 Species: Oryzias Remarks: Based	
	ty to daphnia and other c invertebrates (Chron-	:	NOEC: > 0.001 - 0 Exposure time: 28	

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ic toxic	sity)		Species: Mysidopsis bahia (opossum shrimp) Remarks: Based on data from similar materials	
M-Fac toxicity	tor (Chronic aquatic /)	:	10	
Parafo	ormaldehyde:			
	ty to fish	:	LC50 : > 1 mg/l Exposure time: 96 Remarks: Based o	h n data from similar materials
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia pulex (Water flea)): > 1 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials	
Toxicit plants	ty to algae/aquatic	:	ErC50 (Desmodesmus subspicatus (green algae)): > 1 mg Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials	
Toxicit	y to microorganisms	:	EC50 : > 10 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials	
Toxicit icity)	ty to fish (Chronic tox-	:		d atipes (Orange-red killifish) n data from similar materials
	ty to daphnia and other c invertebrates (Chron- city)	:	 NOEC: > 1 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 Remarks: Based on data from similar materials 	
Calciu	ım carbonate:			
	y to fish	:	Exposure time: 96	ater Accommodated Fraction
	ty to daphnia and other cinvertebrates	:	 EL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202 	
Toxicit plants	ty to algae/aquatic	:	mg/l Exposure time: 72	ater Accommodated Fraction

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	y to microorganisms	mg/l Exposure time: 7 Test substance: V Method: OECD T : NOEC : 1,000 mg Exposure time: 3 Method: OECD T EC50 : > 1,000 m Exposure time: 3 Method: OECD T	Water Accommodated Fraction Test Guideline 201 g/l h Test Guideline 209 ng/l

12.2 Persistence and degradability

Components:

Nonylphenol, ethoxylated:

Biodegradability	:	Result: Not readily biodegradable. Remarks: Based on data from similar materials
Paraformaldehyde:		

Biodegradability : Result: Readily biodegradable. Remarks: Based on data from similar materials

12.3 Bioaccumulative potential

Components:

amitraz (ISO): Bioaccumulation	:	Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 1,333
Partition coefficient: n- octanol/water	:	log Pow: 5.5
Nonylphenol, ethoxylated:		
Partition coefficient: n- octanol/water	:	log Pow: 4.48
Paraformaldehyde:		
Partition coefficient: n- octanol/water	:	log Pow: -1.40 Remarks: Calculation
12.4 Mobility in soil		

Components:

amitraz (ISO): Distribution among environ- : log Koc: 3.3

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	l compartments			
12.5 Resu	Its of PBT and vPvB a	sse	ssment	
<u>Produ</u> Asses	<u>ict:</u> sment	:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 Other	adverse effects			
<u>Produ</u> Endoc tial	ict: rine disrupting poten-	:		nixture contains components considered to isrupting properties for environment accord- I Article 57(f).
Comp	onents:			
Nonyl	phenol, ethoxylated:	_		considered to have appleaving discusting
tial	rine disrupting poten-	:		considered to have endocrine disrupting ing to UK REACH Article 57(f) for environ-

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 han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN 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,

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		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	3	 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 Tran	sport hazard class(es)	
		Class Subsidiary risks
ADN		: 9
ADR		: 9
RID		: 9
IMDO	3	: 9
ΙΑΤΑ		: 9
14.4 Pack	ing group	
Class	ing group sification Code rd Identification Number Is	: III : M7 : 90 : 9
Class Haza Label	ing group sification Code rd Identification Number ls el restriction code	: III : M7 : 90 : 9 : (-)
RID Packi Class	ing group sification Code rd Identification Number	: III : M7 : 90 : 9
Labe	ing group	: III : 9 : F-A, S-F
	(Cargo) ing instruction (cargo	: 956

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aircraft) Packing instruction (LQ) Packing group Labels	: Y956 : III : Miscellaneous	
IATA (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ) Packing group Labels	- : 956 : Y956 : III : Miscellaneous	
14.5 Environmental hazards		
ADN Environmentally hazardous ADR	: yes	
Environmentally hazardous	: yes	
RID Environmentally hazardous	: yes	
IMDG Marine pollutant	: yes	
IATA (Passenger) Environmentally hazardous	: yes	
IATA (Cargo) Environmentally hazardous	: yes	
14.6 Special precautions for us		

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 Transport in bulk according to Annex II of Marpol and the IBC Code

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	: Conditions of restriction for the fol- lowing entries should be considered: Number on list 46a.: Nonylphenol, ethoxylated
	Number on list 46b: Nonylphenol, ethoxylated
	Substance(s) or mixture(s) are listed

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				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.
	EACH Candidate list o ern (SVHC) for Authoris	f substances of very high sation	า :	Nonylphenol, ethoxylated
The F	Persistent Organic Poll	utants Regulations (retai as amended for Great B		Not applicable
	lation (EC) on substan	ces that deplete the ozor	ne :	Not applicable
UK R	UK REACH List of substances subject to authorisation (Annex XIV)			Nonylphenol, ethoxylated
ĠB E	,	zardous chemicals - Prio gulation	r:	amitraz (ISO) Nonylphenol, ethoxylated
0 (

Control of Major Accident Hazards Regulations 2015 (COMAH)

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL	100 t	200 t
	HAZARDS		

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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.

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H315 H317 H318 H332 H335 H341 H350 H373 H400		: Ma : Car : Har : Ma : Sus : Ma : Ma exp	uses serious er rmful if inhaled y cause respira spected of caus y cause cance	ergic skin reaction. ye damage. atory irritation. sing genetic defects. r. ge to organs through prolonged or repeated	
H410			Very toxic to aquatic life with long lasting effects.		
Full te	ext of other abbrevia	tions			
	ic Acute ic Chronic am. rrit. Sens. RE SE	: Sho : Lor : Cai : Sei : Sei : Ski : Ski : Spo : Spo : Eui fror	ng-term (chroni rcinogenicity rious eye dama rm cell mutage n irritation n sensitisation ecific target org ecific target org rope. Directive		
GB EH40 2004/37/EC / STEL 2004/37/EC / TWA GB EH40 / TWA GB EH40 / STEL		: UK : Sho : Lor : Lor : Sho	UK. EH40 WEL - Workplace Exposure Limits Short term exposure limit Long term exposure limit Long-term exposure limit (8-hour TWA reference period) Short-term exposure limit (15-minute 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 - 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 UK REACH Regulations SI 2019/758

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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 Sheet	eChem Portal searcl	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/	
Classification of the mixtur	e:	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.

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