



Vers 2.3	ion	Revision Date: 06.04.2024		S Number: 50591-00006	Date of last issue: 27.11.2023 Date of first issue: 09.04.2022
	TION 1: Product	IDENTIFICATION	:	Amitraz (50%) So	olid Formulation
	Other m	neans of identification	:	COOPERS AMIT	IK CATTLE DIP AND SPRAY (41044)
	Manufa Compa	icturer or supplier's c ny	letai :		Pty Limited (trading as MSD Animal Health)
	Address	5	:	91-105 Harpin St Bendigo 3550, V	
	Telepho	one	:	1 800 033 461	
	Emerge	ency telephone number	r:	Poisons Informat	ion Centre: Phone 13 11 26
	E-mail a	address	:	EHSDATASTEW	/ARD@msd.com
		mended use of the cl			
	Recom	mended use	:	Veterinary produ	ct

Recommended use	•	velennary produc
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Acute toxicity (Oral)	:	Category 4
Serious eye damage/eye irri- tation	:	Category 1
Skin sensitisation	:	Category 1
Germ cell mutagenicity	:	Category 2
Carcinogenicity	:	Category 1B
Specific target organ toxicity - repeated exposure	:	Category 2 (Liver, Central nervous system)
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H302 Harmful if swallowed.





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		H318 Causes s H341 Suspecte H350 May caus H373 May caus	se an allergic skin reaction. erious eye damage. ed of causing genetic defects. se cancer. se damage to organs (Liver, Central nervous h prolonged or repeated exposure.
Preca	autionary statements	P202 Do not ha and understood P260 Do not br P264 Wash ski P270 Do not ea P272 Contamin the workplace.	eathe dust. n thoroughly after handling. at, drink or smoke when using this product. hated work clothing should not be allowed out of tective gloves/ protective clothing/ eye protec-
		CENTER/ doctor P302 + P352 IF P305 + P351 + water for severa and easy to do. CENTER/ doctor P308 + P313 IF attention.	P330 IF SWALLOWED: Call a POISON or if you feel unwell. Rinse mouth. FON SKIN: Wash with plenty of water. P338 + P310 IF IN EYES: Rinse cautiously with al minutes. Remove contact lenses, if present Continue rinsing. Immediately call a POISON or. Fexposed or concerned: Get medical advice/ skin irritation or rash occurs: Get medical ad-
		Storage: P405 Store lock	ked up.
		Disposal:	of contents/ container to an approved waste

Other hazards which do not result in classification

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
amitraz (ISO)	33089-61-1	>= 30 -< 60
Calcium carbonate	471-34-1	>= 30 -< 60
Nonylphenol, ethoxylated	9016-45-9	>= 1 -< 3
Paraformaldehyde	30525-89-4	>= 1 -< 3



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SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	Harmful if swallowed. May 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.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media		Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
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
Specific extinguishing meth-	:	Use extinguishing measures that are appropriate to local cir-



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oc	ls	Use wate Remove u so.	Evacuate area.				
fo	pecial protective equipment r firefighters azchem Code		In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. 2Z				
SECTI	ON 6. ACCIDENTAL RELE	ASE MEASUF	RES				
tiv	ersonal precautions, protec- e equipment and emer- ency procedures	Follow sa	onal protective equipment. Ife handling advice (see section 7) and personal pro- quipment recommendations (see section 8).				
Er	nvironmental precautions	Prevent fu Retain an Local auth	ease to the environment. urther leakage or spillage if safe to do so. nd dispose of contaminated wash water. horities should be advised if significant spillages e contained.				
	ethods and materials for ntainment and cleaning up	tainer for Avoid disp with comp Dust depo es, as the leased int Local or n posal of th employed mine whic Sections	o or vacuum up spillage and collect in suitable con- disposal. persal of dust in the air (i.e., clearing dust surfaces pressed air). osits should not be allowed to accumulate on surfac- ese may form an explosive mixture if they are re- to the atmosphere in sufficient concentration. national regulations may apply to releases and dis- his material, as well as those materials and items d in the cleanup of releases. You will need to deter- ch regulations are applicable. 13 and 15 of this SDS provide information regarding cal or national requirements.				
SECTI	SECTION 7. HANDLING AND STORAGE						
Τe	echnical measures	causing a Provide a	ctricity may accumulate and ignite suspended dust an explosion. adequate precautions, such as electrical grounding ling, or inert atmospheres.				
Lc	ocal/Total ventilation		nt ventilation is unavailable, use with local exhaust				
Ac	dvice on safe handling	: Do not ge	et on skin or clothing.				

Wash skin thoroughly after handling.

Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as-

Do not breathe dust. Do not swallow. Do not get in eyes.

sessment



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Ηγς	jiene measures	 Keep away fro Protect from m Minimize dust Keep containe Keep away fro Take precautio Do not eat, drin Take care to p environment. If exposure to o flushing system place. When using do Contaminated workplace. Wash contamin The effective o engineering co appropriate de industrial hygie 	
Cor	nditions for safe storage		ly labelled containers. p.
Mat	erials to avoid	Store in accord	lance with the particular national regulations. ith the following product types:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
amitraz (ISO)	33089-61-1	TWA	10 µg/m3 (OEB 3)	Internal
		Wipe limit	1250 µg/100 cm ²	Internal
Calcium carbonate	471-34-1	TWA	10 mg/m3 (Calcium car- bonate)	AU OEL

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis	
		exposure)	concentration		
Formaldehyde	50-00-0	STEL	2 ppm 2.5 mg/m3	AU OEL	
	Further information: Category 2 (Carc. 2) Suspected human car- cinogen, Sensitiser				





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				TWA	1 ppm 1.2 mg/m3	AU OEL
			Further informa cinogen, Sensit		ory 2 (Carc. 2) Suspect	ed human c
				TWA	0.1 ppm	ACGIH
				STEL	0.3 ppm	ACGIH
			protect produc Containment to are required to	ts, workers echnologie control at to uncontr es).	ccordance with GMP pri , and the environment. s suitable for controlling source and to prevent n olled areas (e.g., open-f	compounds
	onal protective equip	oment				
Respi	iratory protection	:	sure assessme	ent demons	ventilation is not availal strates exposures outsic se respiratory protection	le the rec-
	ter type protection	:			id inorganic gas/vapour	
Ма	aterial	:	Chemical-resis	stant gloves	3	
Re	emarks	:	Consider doub	le alovina.		
	protection	:	Wear safety gl If the work env mists or aerose Wear a facesh	asses with rironment o ols, wear th ield or othe	side shields or goggles r activity involves dusty he appropriate goggles. For full face protection if the t to the face with dusts,	conditions, here is a
Skin a	and body protection	:	Work uniform of Additional body task being per posable suits)	y garments formed (e.ç to avoid ex te degowni	ry coat. should be used based g., sleevelets, apron, ga posed skin surfaces. ng techniques to remov	untlets, dis-

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	white
		grey
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available





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Me	Iting point/freezing point	:	No data available	9		
Init ran	ial boiling point and boiling ge	:	No data available			
Fla	sh point	:	Not applicable			
Eva	aporation rate	:	Not applicable			
Fla	mmability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.			
Fla	mmability (liquids)	:	No data available	9		
	per explosion limit / Upper nmability limit	:	No data available			
	ver explosion limit / Lower nmability limit	:	No data available	9		
Va	oour pressure	:	Not applicable			
Re	ative vapour density	:	Not applicable			
Re	lative density	:	No data available	9		
De	nsity	:	No data available	9		
	ubility(ies)		NI 1 7 NI			
	Water solubility	:	No data available			
	rtition coefficient: n- anol/water	:	Not applicable			
Aut	o-ignition temperature	:	No data available			
De	composition temperature	:	No data available	9		
	cosity Viscosity, kinematic	:	Not applicable			
Exp	plosive properties	:	Not explosive			
Oxi	dizing properties	:	The substance o	r mixture is not classified as oxidizing.		
Мо	lecular weight	:	No data available	9		
	rticle characteristics rticle size	:	No data available	9		





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	tivity nical stability bility of hazardous rea	: : IC- :	Stable under no May form explo dling or other m Can react with	strong oxidizing agents. omposition products will be formed upon con
	itions to avoid	:	Exposure to mo Heat, flames ar Avoid dust form	nd sparks. nation.
Incom	patible materials	:	Oxidizing agen Water	ts
Conta air	rdous decomposition	: k	Formaldehyde	
CTION	11. TOXICOLOGICA	LINFO	ORMATION	
Expos	sure routes	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity ful if swallowed.			
<u>Produ</u>				
Acute	oral toxicity	:	Acute toxicity es Method: Calcula	stimate: 946.17 mg/kg ation method
Acute	inhalation toxicity	:	Acute toxicity es Exposure time: Test atmospher Method: Calcula	e: dust/mist
<u>Comp</u>	oonents:			
amitr	az (ISO):			
Acute	oral toxicity	:	LD50 (Rat): > 4	00 mg/kg
			LD50 (Mouse):	> 1,085 mg/kg
			LD50 (Guinea p	ig): > 400 mg/kg
		:	Remarks: No da	ata available
Acute	inhalation toxicity			
	inhalation toxicity dermal toxicity	:	LD50 (Rat): > 1	600 mg/kg





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Acute oral toxicity	 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 420 Assessment: The substance or mixture has no acute oral tox- icity 				
Acute inhalation toxicity	 LC50 (Rat): > 3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhala- tion toxicity 				
Acute dermal toxicity	 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity 				
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				
Acute dermal toxicity	: LD50 (Rat): > 10,000 mg/kg				
Skin corrosion/irritation Not classified based on ava	ilable information				
Components:					
amitraz (ISO): Species Result	: Rabbit : No skin irritation				
Calcium carbonate:					
Species Method Result	 Rabbit OECD Test Guideline 404 No skin irritation 				
Nonylphenol, ethoxylated	:				
Species Method Result	 Rabbit OECD Test Guideline 404 No skin irritation 				



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Para	formaldehyde:			
Spec	-	:	Rabbit	
Resi		:	Skin irritation	
Serie	ous eye damage/eye i	rritati	on	
Cau	ses serious eye damag	e.		
Com	ponents:			
amit	raz (ISO):			
Spec		:	Rabbit	
Resu	ult	:	No eye irritation	
	ium carbonate:			
Spec Resi		:	Rabbit	
Meth		:	No eye irritation OECD Test Guid	eline 405
Non	ylphenol, ethoxylated	:		
Spec		•	Rabbit	
Resi		:	Irreversible effect	
Meth	nod	:	OECD Test Guid	eline 405
Para	formaldehyde:			
Spec		:	Rabbit	
Resu	ult	:	Irreversible effect	is on the eye
Res	piratory or skin sensit	isatio	on	
-	sensitisation	_		
May	cause an allergic skin i	reaction	on.	
•	piratory sensitisation			
Not	classified based on ava	ilable	information.	
<u>Com</u>	ponents:			
amit	raz (ISO):			
	Туре	:	Maximisation Tes	st
Expo Speo	osure routes	:	Dermal Guinea pig	
Resi		:	Not a skin sensiti	zer.
Calc	ium carbonate:			
Test	Туре	:	Local lymph node	e assay (LLNA)
Expo	osure routes	:	Skin contact	
Spec Meth		:	Mouse OECD Test Guid	eline 429
Resi		÷	negative	
			-	



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		ohenol, ethoxylated:			
	Test Ty	ype ure routes	:	Maximisation Tes Skin contact	st
	Specie		÷	Guinea pig	
	Result		:	negative	
	Remar	ks	:	Based on data fro	om similar materials
		rmaldehyde:			
	Test Ty		:	Local lymph node	e assay (LLNA)
	Specie	ure routes s	:	Skin contact Mouse	
	Result		÷	positive	
	Remar	ks	:	Based on data fro	om similar materials
	Assess	sment	:	Probability or evident mans	dence of high skin sensitisation rate in hu-
	Chron	ic toxicity			
		cell mutagenicity cted of causing genetic	: def	ects.	
	Comp	onents:			
	amitra	z (ISO):			
	Genoto	oxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
				Test Type: In vitr Result: negative	o mammalian cell gene mutation test
				Test Type: Chror Result: negative	nosome aberration test in vitro
					damage and repair, unscheduled DNA syn- lian cells (in vitro)
	Calciu	m carbonate:			
	Genoto	oxicity in vitro	:		rial reverse mutation assay (AMES) Test Guideline 471
				Test Type: Chror Method: OECD T Result: negative	nosome aberration test in vitro est Guideline 473
					o mammalian cell gene mutation test est Guideline 476



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	Result: negative
Nonylphenol, ethoxyla Genotoxicity in vitro	ted: : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials
Paraformaldehyde:	
Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: positive Remarks: Based on data from similar materials
	Test Type: In vitro mammalian cell gene mutation test Result: positive Remarks: Based on data from similar materials
	Test Type: in vitro micronucleus test Result: positive Remarks: Based on data from similar materials
	Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Result: positive Remarks: Based on data from similar materials
	Test Type: In vitro sister chromatid exchange assay in mam- malian cells Result: positive Remarks: Based on data from similar materials
Genotoxicity in vivo	 Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: inhalation (vapour) Result: positive Remarks: Based on data from similar materials
	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: Ingestion Result: positive Remarks: Based on data from similar materials
Germ cell mutagenicity - Assessment	: Positive result(s) from in vivo mammalian somatic cell muta- genicity tests.

May cause cancer.



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Com	ponents:		
	az (ISO):		
Expo NOAI Resu Spec	cation Route sure time EL It ies sure time	: Rat : Oral : 2 Years : > 10.18 mg/k : negative : Mouse : 2 Years : 2.3 mg/kg bo	g body weight
Resu		: positive : Liver, Stoma	
Spec Applie Expo Resu Spec Applie Expo Resu Rema Carci ment Repr Not c Com	cation Route sure time It ies cation Route sure time It arks nogenicity - Assess-	: Sufficient evi lable information. : Test Type: Ti	ta from similar materials dence of carcinogenicity in animal experiments hree-generation reproduction toxicity study
	,	Species: Rat Application R Fertility: NOA	
Effec ment	ts on foetal develop-	Species: Rat Application R Development Remarks: No Test Type: E Species: Rat Application R	coute: Oral tal Toxicity: NOAEL: 3 mg/kg body weight significant adverse effects were reported mbryo-foetal development obit



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			Result: Effects c	on foetal development
Calci	um carbonate:			
Effect	ts on fertility	:	reproduction/dev Species: Rat Application Rout	Test Guideline 422
Effect ment	ts on foetal develop-	:	Species: Rat Application Rout	Test Guideline 414
	- single exposure lassified based on avai	ilable	information.	
<u>Com</u>	oonents:			
Paraf	ormaldehyde:			
Asses	ssment	:	May cause respi	iratory irritation.
	0 0		ver, Central nervo	ous system) through prolonged or repeated e
<u>Com</u>	ponents:			
amitr	az (ISO):			
	et Organs ssment	:	Liver, Central ne May cause dama exposure.	ervous system age to organs through prolonged or repeated
Repe	ated dose toxicity			
<u>Com</u>	oonents:			
amitr	az (ISO):			
Speci NOAE Applic Expos	es		Mouse 3 mg/kg Oral 90 Days Liver	
Expos		: : : : : : : : : : : : : : : : : : : :	Dog 0.25 mg/kg Oral 90 Days Central nervous	system, Liver
			14 / 21	



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Calci	um carbonate:				
Speci		:	Rat		
NOAE	EL cation Route	÷	> 1,000 mg/kg Ingestion		
	sure time	:	28 Days		
Metho	od	:	OECD Test Guid	eline 422	
Paraf	ormaldehyde:				
Speci		:	Rat, male		
NOAE Applic	L cation Route	÷	15 mg/kg Ingestion		
Expos	sure time	:	105 Weeks		
Rema	ırks	:	Based on data fr	om similar materials	
Aenir	ation toxicity				
•	assified based on availa	ble	information.		
	rience with human exp				
Com	oonents:				
amitr	az (ISO):				
amitr a Inges	az (ISO): tion	:	Target Organs: C	Central nervous system	
Inges		: DRM		Central nervous system	
Inges CTION	tion	: DRI		Central nervous system	
Inges CTION Ecoto	tion 12. ECOLOGICAL INFO	: DRI		Central nervous system	
Inges CTION Ecoto <u>Comp</u>	tion 12. ECOLOGICAL INFO poincity ponents:	: DRI		Central nervous system	
Inges CTION Ecoto <u>Comp</u> amitra	tion 12. ECOLOGICAL INFO	: DRI	I ATION	nacrochirus (Bluegill sunfish)): 0.45 mg/l	
Inges CTION Ecoto Comp amitra Toxici	tion 12. ECOLOGICAL INFO exicity <u>ponents:</u> az (ISO):	:	LC50 (Lepomis r Exposure time: 9	nacrochirus (Bluegill sunfish)): 0.45 mg/l 6 h nagna (Water flea)): 0.035 mg/l	
Inges CTION Ecoto Comp amitra Toxici aquat	tion 12. ECOLOGICAL INFO points: az (ISO): ty to fish ty to daphnia and other	:	ATION LC50 (Lepomis r Exposure time: 9 EC50 (Daphnia r Exposure time: 4	nacrochirus (Bluegill sunfish)): 0.45 mg/l 6 h nagna (Water flea)): 0.035 mg/l 8 h	
Inges CTION Ecoto Comp amitra Toxici aquat	tion 12. ECOLOGICAL INFO pxicity ponents: az (ISO): ty to fish ty to daphnia and other ic invertebrates ty to algae/aquatic	:	ATION LC50 (Lepomis r Exposure time: 9 EC50 (Daphnia r Exposure time: 4 NOEC (Pseudok mg/l	nacrochirus (Bluegill sunfish)): 0.45 mg/l 6 h nagna (Water flea)): 0.035 mg/l 8 h irchneriella subcapitata (green algae)): 0	
Inges CTION Ecoto Comp amitra Toxici aquat Toxici	tion 12. ECOLOGICAL INFO pxicity ponents: az (ISO): ty to fish ty to daphnia and other ic invertebrates ty to algae/aquatic	:	ATION LC50 (Lepomis r Exposure time: 9 EC50 (Daphnia r Exposure time: 4 NOEC (Pseudok	nacrochirus (Bluegill sunfish)): 0.45 mg/l 6 h nagna (Water flea)): 0.035 mg/l 8 h irchneriella subcapitata (green algae)): 0	
Inges CTION Ecoto Comp amitra Toxici aquat Toxici plants Toxici	tion 12. ECOLOGICAL INFO pxicity ponents: az (ISO): ty to fish ty to daphnia and other ic invertebrates ty to algae/aquatic	:	ATION LC50 (Lepomis r Exposure time: 9 EC50 (Daphnia r Exposure time: 4 NOEC (Pseudok mg/l Exposure time: 9 NOEC (Pimepha	nacrochirus (Bluegill sunfish)): 0.45 mg/l 6 h nagna (Water flea)): 0.035 mg/l 8 h irchneriella subcapitata (green algae)): 0 1 h	
Inges CTION Ecoto Comp amitra Toxici aquat Toxici plants	tion 12. ECOLOGICAL INFO pxicity ponents: az (ISO): ty to fish ty to daphnia and other ic invertebrates ty to algae/aquatic	:	ATION LC50 (Lepomis r Exposure time: 9 EC50 (Daphnia r Exposure time: 4 NOEC (Pseudok mg/l Exposure time: 9	nacrochirus (Bluegill sunfish)): 0.45 mg/l 6 h nagna (Water flea)): 0.035 mg/l 8 h irchneriella subcapitata (green algae)): 0 1 h les promelas (fathead minnow)): 0.00148	
Inges ECTION Ecoto Comp amitr Toxici aquat Toxici plants Toxici icity)	tion 12. ECOLOGICAL INFO pxicity ponents: az (ISO): ty to daphnia and other ic invertebrates ty to algae/aquatic ty to fish (Chronic tox-	::	ATION LC50 (Lepomis r Exposure time: 9 EC50 (Daphnia r Exposure time: 4 NOEC (Pseudok mg/l Exposure time: 9 NOEC (Pimepha mg/l Exposure time: 3	nacrochirus (Bluegill sunfish)): 0.45 mg/l 6 h nagna (Water flea)): 0.035 mg/l 8 h irchneriella subcapitata (green algae)): 0 1 h les promelas (fathead minnow)): 0.00148 2 d	
Inges ECTION Ecoto Comp amitr Toxici aquat Toxici plants Toxici icity) Toxici	tion 12. ECOLOGICAL INFO pxicity ponents: az (ISO): ty to fish ty to daphnia and other ic invertebrates ty to algae/aquatic ty to fish (Chronic tox- ty to daphnia and other ic invertebrates (Chron-	:	ATION LC50 (Lepomis r Exposure time: 9 EC50 (Daphnia r Exposure time: 4 NOEC (Pseudok mg/l Exposure time: 9 NOEC (Pimepha mg/l Exposure time: 3	nacrochirus (Bluegill sunfish)): 0.45 mg/l 6 h nagna (Water flea)): 0.035 mg/l 8 h irchneriella subcapitata (green algae)): 0 1 h les promelas (fathead minnow)): 0.00148 2 d magna (Water flea)): 0.0011 mg/l	



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	Calciu	n carbonate:			
	Toxicity	ν to fish	:	Exposure time: 96	Vater Accommodated Fraction
		to daphnia and other invertebrates	:	Exposure time: 48	Vater Accommodated Fraction
	Toxicity plants	v to algae/aquatic	:	mg/l Exposure time: 72	Vater Accommodated Fraction
				mg/l Exposure time: 72	Vater Accommodated Fraction
	Toxicity	to microorganisms	:	NOEC: 1,000 mg/ Exposure time: 3 Method: OECD T	h
				EC50: > 1,000 mg Exposure time: 3 Method: OECD T	ĥ
	Nonylp	henol, ethoxylated:			
	Toxicity	<i>t</i> to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 0.1 - 1 mg/l 5 h on data from similar materials
		v to daphnia and other invertebrates	:	Exposure time: 48	nia dubia (water flea)): > 0.1 - 1 mg/l 3 h on data from similar materials
	Toxicity plants	∕ to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD T	
				Exposure time: 72 Method: OECD T	



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	Toxicity icity)	to fish (Chronic tox-	:	Exposure time: 10	tipes (Japanese medaka)): > 0.1 - 1 mg/l 00 d on data from similar materials
		to daphnia and other invertebrates (Chron- ty)	:	mg/l Exposure time: 28	s bahia (opossum shrimp)): > 0.001 - 0.01 d on data from similar materials
	Parafor	maldehyde:			
	Toxicity	to fish	:	LC50 : > 1 mg/l Exposure time: 96 Remarks: Based o	bh on data from similar materials
		to daphnia and other invertebrates	:	Exposure time: 48 Method: OECD Te	
	Toxicity plants	to algae/aquatic	:	Exposure time: 72 Method: OECD Te	
	Toxicity icity)	to fish (Chronic tox-	:	Exposure time: 28	tipes (Orange-red killifish)): > 1 mg/l 3 d on data from similar materials
		to daphnia and other invertebrates (Chron- ty)	:	Exposure time: 21 Method: OECD Te	
	Toxicity	to microorganisms	:	EC50: > 10 mg/l Exposure time: 3 Method: OECD Te Remarks: Based o	h est Guideline 209 on data from similar materials
	Persist	ence and degradabili	ty		
	<u>Compo</u>	nents:			
		henol, ethoxylated: adability	:	Result: Not readily Remarks: Based of	y biodegradable. on data from similar materials
	Parafor	maldehyde:			
	Biodegr	adability	:	Result: Readily bio Remarks: Based of	odegradable. on data from similar materials



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Bioa	ccumulative potential			
<u>Com</u>	ponents:			
	amitraz (ISO): Bioaccumulation		: Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 1,333	
	tion coefficient: n- nol/water	:	log Pow: 5.5	
Parti	ylphenol, ethoxylated: tion coefficient: n- nol/water	:	log Pow: 4.48	
Parti	formaldehyde: tion coefficient: n- nol/water	:	log Pow: -1.40 Remarks: Calcula	ation
Mobi	ility in soil			
<u>Com</u>	ponents:			
Distri	raz (ISO): ibution among environ- al compartments	:	log Koc: 3.3	
	r adverse effects ata available			
SECTION	SECTION 13. DISPOSAL CONSIDERA			
•	osal methods te from residues	:	Do not dispose o	f waste into sewer.
1100		•	•	ordance with local regulations.

	•	
		Dispose of in accordance with local regulations.
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

International Regulations

UNRTDG UN number Proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (amitraz (ISO), Nonylphenol, ethoxylated)
Class Packing group Labels Environmentally hazardous	: : :	9 III 9 yes



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UN/IE Prope Class Packi Label Packi aircra Packi ger ai Enviro IMDG UN nu	A-DGR /ID No. per shipping name ss exing group bels exing instruction (cargo graft) exing instruction (passen- aircraft) vironmentally hazardous DG-Code number per shipping name		UN 3077 Environmentally hazardous substance, solid, n.o.s. (amitraz (ISO), Nonylphenol, ethoxylated) 9 III Miscellaneous 956 956 956 yes UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLIE N.O.S. (amitraz (ISO), Nonylphenol, ethoxylated) 9 III			
EmS Code Marina pollutant		:	F-A, S-F ves			
Marine pollutant			5	POL 73/78 and the IBC Code		
	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.					
Natio	National Regulations					
	r shipping name	:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, SOLID,		
Label Hazch	ng group		9 III 9 2Z yes			

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.

SECTION 15. REGULATORY INFORMATION

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

Therapeutic Goods (Poisons	:	Schedule 6 (Please use the original publication to check for	
Standard) Instrument		specific uses, specific conditions or threshold limits that might	
		apply for this chemical)	





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Prohi	bition/Licensing Requir	ements	: There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.				
	The components of this product are reported in the following inventories: AICS : not determined						
DSL		: not determined					
IECS	С	: not determined					

SECTION 16: ANY OTHER RELEVANT INFORMATION

Further information

Revision Date Sources of key data used to compile the Safety Data Sheet	:	06.04.2024 Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/			
Date format	:	dd.mm.yyyy			
Full text of other abbreviations					
ACGIH AU OEL	:	USA. ACGIH Threshold Limit Values (TLV) Australia. Workplace Exposure Standards for Airborne Con- taminants.			
ACGIH / TWA ACGIH / STEL AU OEL / TWA AU OEL / STEL	:	8-hour, time-weighted average Short-term exposure limit Exposure standard - time weighted average Exposure standard - short term exposure limit			

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships;





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n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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