

Version 6.2	Revision Date: 06.04.2024		S Number: 32056-00016		sue: 30.09.2023 sue: 06.06.2017	
Section 1	I: Identification					
Prod	uct name	:	Amitraz Solid Fo	rmulation		
Man	ufacturer or supplier's o	deta	ils			
Com	pany	:	MSD			
Addr	Address		33 Whakatiki Street - Private Bag 908 Upper Hutt - New Zealand			
Tele	phone	:	0800 800 543			
Eme	rgency telephone numbe	r:	0800 764 766 (0 CHEMCALL)	800 POISON)	0800 243 622 (0800	
E-ma	ail address	:	EHSDATASTEW	/ARD@msd.co	m	
Reco	ommended use of the cl	hem	ical and restriction	ons on use		
Reco	ommended use	:	Veterinary produ	ict		

Recommended use	:	Veterinary produc
Restrictions on use	:	Not applicable

#### Section 2: Hazard 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 1
Specific target organ toxicity - repeated exposure	:	Category 2
Hazardous to the aquatic environment - acute hazard	:	Category 1
Hazardous to the aquatic environment - chronic hazard	:	Category 1

#### **GHS** label elements



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Haza	rd pictograms		
Signa	al word	: Danger	<b>v v v</b>
Haza	rd statements	H317 May ca H318 Cause H341 Suspe H350 May ca H373 May ca peated expo	ul if swallowed. ause an allergic skin reaction. es serious eye damage. cted of causing genetic defects. ause cancer. ause damage to organs through prolonged or re- sure. oxic to aquatic life with long lasting effects.
Preca	autionary statements	P202 Do not and understo P261 Avoid P264 Wash P270 Do not P272 Contar the workplac P273 Avoid	a special instructions before use. t handle until all safety precautions have been reacted. breathing dust. skin thoroughly after handling. t eat, drink or smoke when using this product. minated work clothing should not be allowed out of the environment. protective gloves/ protective clothing/ eye protec-
		CENTER/ do P302 + P352 P305 + P357 water for sev and easy to CENTER/ do P308 + P313 attention.	<ul><li>3 IF exposed or concerned: Get medical advice/</li><li>3 If skin irritation or rash occurs: Get medical adon.</li></ul>
		Storage:	
		P405 Store I <b>Disposal:</b> P501 Dispos disposal plar	se of contents/ container to an approved waste



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#### Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity: 10 %

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 10 %

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 10 %

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 10 %

#### 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	50
Calcium carbonate	471-34-1	>= 10 -<= 20
Aluminium silicate	12141-46-7	>= 10 -<= 20
Paraformaldehyde	30525-89-4	2.55
Sodium bis(2-ethylhexyl)sulfosuccinate	577-11-7	1

#### 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	:	Harmful if swallowed.
and effects, both acute and		May cause an allergic skin reaction.
delayed		Causes serious eye damage.
		Suspected of causing genetic defects.
		May cause cancer.



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Pro	otection of first-aiders	:	exposure. First Aid responde and use the recor	ge to organs through prolonged or repeated ers should pay attention to self-protection, nmended personal protective equipment
No	Notes to physician			I for exposure exists (see section 8). cally and supportively.
Sectior	1 5: Fire-fighting measures	S		
	itable extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical	
	suitable extinguishing dia	:	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 potential dust explosion hazard. Exposure to combustion products may be a hazard to health	
	Hazardous combustion prod- ucts		Carbon oxides Silicon oxides Metal oxides Nitrogen oxides (I Sulphur oxides	NOx)
Sp od	ecific extinguishing meth- s	:	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
for	ecial protective equipment firefighters zchem Code	:	In the event of fire	e, wear self-contained breathing apparatus. rective equipment.
Section	6: Accidental release me	as	ures	
tive	rsonal precautions, protec- e equipment and emer- ncy procedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
En	Environmental precautions		Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages



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		Dust deposits should not be allowed to accumulate on surfac- es, as these may form an explosive mixture if they are re- leased into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.
Section 7	: Handling and storage	
	nical measures /Total ventilation	<ul> <li>Static electricity may accumulate and ignite suspended dust causing an explosion.</li> <li>Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.</li> <li>If sufficient ventilation is unavailable, use with local exhaust</li> </ul>
Advic	e on safe handling	<ul> <li>ventilation.</li> <li>Do not get on skin or clothing. Do not breathe dust. Do not swallow. Do not get in eyes.</li> <li>Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment</li> <li>Keep container tightly closed.</li> <li>Keep away from water.</li> <li>Protect from moisture.</li> <li>Minimize dust generation and accumulation.</li> <li>Keep container closed when not in use.</li> <li>Keep away from heat and sources of ignition.</li> <li>Take precautionary measures against static discharges.</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Take care to prevent spills, waste and minimize release to the available.</li> </ul>
Hygie	ene measures	<ul> <li>environment.</li> <li>If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.</li> <li>When using do not eat, drink or smoke.</li> <li>Contaminated work clothing should not be allowed out of the workplace.</li> </ul>
Cond	itions for safe storage	<ul> <li>Wash contaminated clothing before re-use.</li> <li>Keep in properly labelled containers.</li> <li>Store locked up.</li> <li>Keep tightly closed.</li> </ul>
Mate	rials to avoid	<ul> <li>Store in accordance with the particular national regulations.</li> <li>Do not store with the following product types: Strong oxidizing agents</li> </ul>



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#### 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 <sup>2</sup>	Internal
Aluminium silicate	12141-46-7	WES-TWA (Respirable dust)	1 mg/m3 (Aluminium)	NZ OEL
		TWA (Res- pirable par- ticulate mat- ter)	1 mg/m3 (Aluminium)	ACGIH
Calcium carbonate	471-34-1	WES-TWA	10 mg/m3 (Calcium car- bonate)	NZ OEL

#### Occupational exposure limits of decomposition products

Occupational exposure limits of decomposition products						
Components	CAS	S-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
Formaldehyde	50-0	0-0	WES-STEL	0.6 ppm	NZ OEL	
		ther information	ation: Skin sensi	tiser, Known or presu	imed human	
			TWA	0.1 ppm	ACGIH	
			STEL	0.3 ppm	ACGIH	
<ul> <li>Engineering measures</li> <li>Processing may form hazardous compounds (see section 10). Minimize workplace exposure concentrations. Apply measures to prevent dust explosions. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). If sufficient ventilation is unavailable, use with local exhaust ventilation.</li> </ul>					st ducts, i) are de- nto the nent).	
Personal protective equip	ment					
Respiratory protection Filter type Hand protection	sur om	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and inorganic gas/vapour type				
Material	: Ch	emical-resi	stant gloves			

: Choose gloves to protect hands against chemicals depending



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Eye p	protection	:	stance and speci determined for th applications, we chemicals of the glove manufactur end of workday. Wear the followin	tion and quantity of the hazardous sub- fic to place of work. Breakthrough time is not e product. Change gloves often! For special recommend clarifying the resistance to aforementioned protective gloves with the rer. Wash hands before breaks and at the g personal protective equipment: ht goggles must be worn.
Skin	Skin and body protection		If splashes are lik Face-shield Select appropriat resistance data a potential. Skin contact mus	tely to occur, wear: e protective clothing based on chemical nd an assessment of the local exposure t be avoided by using impervious protective aprons, boots, etc).
Section 9	: Physical and chemic	cal pro	operties	
Appe	arance	:	powder	
Colour		:	white	

Colour	:	white
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	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
Vapour pressure	:	No data available
Relative vapour density	:	No data available

#### SAFETY DATA SHEET



# Amitraz Solid Formulation

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Relati	ve density	: No data avail	able
Densi	ty	: No data avail	able
	ility(ies) ater solubility	: insoluble	
	on coefficient: n-	: No data avail	able
	ol/water gnition temperature	: No data avail	able
Decor	mposition temperature	: No data avail	able
Viscos Vis	sity scosity, kinematic	: No data avail	able
Explo	sive properties	: Not explosive	
Oxidiz	zing properties	: The substanc	e or mixture is not classified as oxidizing.
Molec	cular weight	: Not applicable	e
	le characteristics le size	: No data avail	able

#### Section 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. 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.
Conditions to avoid	:	Exposure to moisture Heat, flames and sparks. Avoid dust formation.
Incompatible materials	:	Oxidizing agents Water
Hazardous decomposition pr Contact with water or humid air		

#### Section 11: Toxicological information

Exposure routes	:	Inhalation
		Skin contact



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		Ingestion Eye contact	
	<b>e toxicity</b> ful if swallowed.		
Prod	uct:		
Acute	oral toxicity		estimate: 958.7 mg/kg ulation method
Acute	inhalation toxicity	Exposure time Test atmosph	
<u>Com</u>	oonents:		
	az (ISO):		
Acute	oral toxicity	: LD50 (Rat): >	400 mg/kg
		LD50 (Mouse)	): > 1,085 mg/kg
		LD50 (Guinea	ı pig): > 400 mg/kg
Acute	inhalation toxicity	: Remarks: No	data available
Acute	e dermal toxicity	: LD50 (Rat): >	1,600 mg/kg
Calci	um carbonate:		
Acute	oral toxicity		2,000 mg/kg D Test Guideline 420 The substance or mixture has no acute oral tox-
Acute	inhalation toxicity		e: 4 h
Acute	e dermal toxicity		2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal
Alum	inium silicate:		
	oral toxicity	: LD50 (Rat): > Assessment: icity	2,000 mg/kg The substance or mixture has no acute oral tox-

#### SAFETY DATA SHEET



Acute inhalation toxicity Acute dermal toxicity	<ul> <li>LC50 (Rat): &gt; 2.18 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity</li> <li>LD50 (Rat): &gt; 5,000 mg/kg</li> </ul>
	Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	: LD50 (Rat): > 5,000 mg/kg
Acute definal toxicity	
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
Sodium bis(2-ethylhexyl)s	
Acute oral toxicity	: LD50 (Rat): 3,080 mg/kg
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg
Skin corrosion/irritation Not classified based on avail	lable information.
Components:	
amitraz (ISO):	
Species Result	: Rabbit : No skin irritation
Calcium carbonate:	
Species Method Result	<ul> <li>Rabbit</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> </ul>
Aluminium silicate:	
Species Result Remarks	<ul> <li>Rabbit</li> <li>No skin irritation</li> <li>Based on data from similar materials</li> </ul>
Paraformaldehyde:	
Species Result	: Rabbit : Skin irritation
Sodium bis(2-ethylhexyl)s	
Species	: Rabbit



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Me Re:	thod sult	: OECD Test ( : Skin irritation	
	r <b>ious eye damage/eye</b> uses serious eye damag		
Co	mponents:		
	<b>itraz (ISO):</b> ecies sult	: Rabbit : No eye irritat	ion
6.			
Spe Res	<b>lcium carbonate:</b> ecies sult thod	: Rabbit : No eye irritat : OECD Test (	
Alu	iminium silicate:		
Re: Me	ecies sult thod marks	: Rabbit : No eye irritat : OPPTS 870. : Based on da	
Par	raformaldehyde:		
	ecies	: Rabbit : Irreversible e	ffects on the eye
So	dium bis(2-ethylhexyl)	sulfosuccinate:	
Spe Res	ecies sult thod	: Rabbit : Irreversible e	ffects on the eye Guideline 405
Re	spiratory or skin sens	itisation	
-	<b>in sensitisation</b> y cause an allergic skin	reaction.	
Re	spiratory sensitisatior	1	
-	mponents:		
am	itraz (ISO):		
Exp Spe	Test Type:Maximisation TestExposure routes:DermalSpecies:Guinea pigResult:Not a skin sensitizer.		

•	Ouniea pig
:	Not a skin sensitizer.



Test Typ Exposur Species Method Result	e routes <b>um silicate:</b> pe	<ul> <li>Local lymph node assay (LL</li> <li>Skin contact</li> <li>Mouse</li> <li>OECD Test Guideline 429</li> <li>negative</li> <li>Local lymph node assay (LL</li> <li>Skin contact</li> </ul>		
Test Typ Exposur Species Method Result Alumini Test Typ Exposur Species	e routes um silicate:	<ul> <li>Skin contact</li> <li>Mouse</li> <li>OECD Test Guideline 429</li> <li>negative</li> <li>Local lymph node assay (LL</li> </ul>		
Exposur Species Method Result Alumini Test Typ Exposur Species	e routes <b>um silicate:</b> pe	<ul> <li>Skin contact</li> <li>Mouse</li> <li>OECD Test Guideline 429</li> <li>negative</li> <li>Local lymph node assay (LL</li> </ul>		
Exposur Species Method Result Alumini Test Typ Exposur Species	e routes <b>um silicate:</b> pe	<ul> <li>Skin contact</li> <li>Mouse</li> <li>OECD Test Guideline 429</li> <li>negative</li> <li>Local lymph node assay (LL</li> </ul>		
Species Method Result Alumini Test Typ Exposur Species	<b>um silicate:</b>	<ul> <li>Mouse</li> <li>OECD Test Guideline 429</li> <li>negative</li> <li>Local lymph node assay (LL</li> </ul>		
Method Result Alumini Test Typ Exposur Species	0e	<ul><li>negative</li><li>Local lymph node assay (LL</li></ul>		
Result Alumini Test Typ Exposur Species	0e	: Local lymph node assay (LL		
Test Typ Exposur Species	0e			
Exposur Species				
Exposur Species			NA)	
Species				
		: Mouse		
		: negative		
Parafor	naldehyde:			
Test Typ	e	: Local lymph node assay (LL	NA)	
Exposur		: Skin contact		
Species		: Mouse		
Result		: positive		
Remarks	6	: Based on data from similar materials		
Assessn	nent	: Probability or evidence of hig mans	: Probability or evidence of high skin sensitisation rate in himans	
Sodium	bis(2-ethylhexyl)	ulfosuccinate:		
Test Typ		: Human repeat insult patch te	est (HRIPT)	
Exposur		: Skin contact		
Species	0 100100	: Humans		
Result		: negative		
Chronic	toxicity			
	ell mutagenicity			
	ed of causing gene	c defects.		
<u>Compor</u>				
amitraz				
Genotox	icity in vitro	: Test Type: Bacterial reverse Result: negative	mutation assay (AMES)	
		Test Type: In vitro mammalia Result: negative	an cell gene mutation test	
		Test Type: Chromosome ab Result: negative	erration test in vitro	
		Test Type: DNA damage and thesis in mammalian cells (ir Result: negative	d repair, unscheduled DNA s <u>y</u> n vitro)	



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	ium carbonate: otoxicity in vitro		Bacterial reverse mutation assay (AMES) CD Test Guideline 471 ative
			Chromosome aberration test in vitro CD Test Guideline 473 ative
			n vitro mammalian cell gene mutation test CD Test Guideline 476 ative
۸lum	ninium silicate:		
	ptoxicity in vitro	: Test Type: I Result: nega	Bacterial reverse mutation assay (AMES) ative
		Test Type: I Result: nega	n vitro mammalian cell gene mutation test ative
		Result: nega	Chromosome aberration test in vitro ative ased on data from similar materials
Geno	otoxicity in vivo	cytogenetic Species: Ra Application Result: nega	Route: Ingestion
Doro	formaldehyde:		
	ptoxicity in vitro	Result: posi	Bacterial reverse mutation assay (AMES) tive ased on data from similar materials
		Result: posi	n vitro mammalian cell gene mutation test tive ased on data from similar materials
		Result: posi	n vitro micronucleus test tive ased on data from similar materials
		thesis in ma Result: posi	DNA damage and repair, unscheduled DNA syn- mmalian cells (in vitro) tive ased on data from similar materials
		Test Type: I malian cells	n vitro sister chromatid exchange assay in mam-



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		Result: positive Remarks: Based on data from similar materials
Geno	otoxicity in vivo	<ul> <li>Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)</li> <li>Species: Rat</li> <li>Application Route: inhalation (vapour)</li> <li>Result: positive</li> <li>Remarks: Based on data from similar materials</li> </ul>
		Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: Ingestion Result: positive Remarks: Based on data from similar materials
	n cell mutagenicity - ssment	: Positive result(s) from in vivo mammalian somatic cell muta- genicity tests.
Sodi	um bis(2-ethylhexyl)	ulfosuccinate:
	ptoxicity 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: equivocal
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials
	<b>inogenicity</b> cause cancer.	
<u>Com</u>	ponents:	
Spec Appli	cation Route sure time EL	<ul> <li>Rat</li> <li>Oral</li> <li>2 Years</li> <li>&gt; 10.18 mg/kg body weight</li> <li>negative</li> </ul>
LOAI Resu	sure time EL	<ul> <li>Mouse</li> <li>2 Years</li> <li>2.3 mg/kg body weight</li> <li>positive</li> <li>Liver, Stomach</li> </ul>



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Alum	inium silicate:		
Speci	ies	: Rat	
Applic	cation Route	: Ingestion	
	sure time	: 104 weeks	
Resul Rema		: negative : Based on da	ata from similar materials
Paraf	ormaldehyde:		
Speci	-	: Rat	
	cation Route	: Ingestion	
	sure time	: 105 weeks	
Resu	lt	: negative	
Speci	ies	: Rat	
	cation Route	: Inhalation	
	sure time	: 28 Months	
Resul Rema		: positive	ata from similar materials
Carcii ment	nogenicity - Assess-	: Sufficient ev	idence of carcinogenicity in animal experiments
Repr	oductive toxicity		
Not c	lassified based on ava	ilable information.	
<u>Com</u>	ponents:		
-	<u>ponents:</u> az (ISO):		
amitr		Species: Ra	
amitr	az (ISO):	Species: Ra Application	t Route: Oral
amitr	az (ISO):	Species: Ra Application Fertility: NO	t
amitr Effect	az (ISO):	Species: Ra Application Fertility: NO Result: No s : Test Type: B	t Route: Oral AEL: > 4.8 mg/kg body weight ignificant adverse effects were reported Embryo-foetal development
amitr Effect	r <b>az (ISO):</b> ts on fertility	Species: Ra Application Fertility: NO Result: No s : Test Type: E Species: Ra	t Route: Oral AEL: > 4.8 mg/kg body weight ignificant adverse effects were reported Embryo-foetal development t
amitr Effect	r <b>az (ISO):</b> ts on fertility	Species: Ra Application Fertility: NO Result: No s : Test Type: E Species: Ra Application	t Route: Oral AEL: > 4.8 mg/kg body weight ignificant adverse effects were reported Embryo-foetal development t Route: Oral
amitr Effect	r <b>az (ISO):</b> ts on fertility	Species: Ra Application Fertility: NO Result: No s : Test Type: E Species: Ra Application Developmer	t Route: Oral AEL: > 4.8 mg/kg body weight ignificant adverse effects were reported Embryo-foetal development t
amitr Effect	r <b>az (ISO):</b> ts on fertility	Species: Ra Application Fertility: NO Result: No s : Test Type: E Species: Ra Application Developmer Remarks: N Test Type: E	t Route: Oral AEL: > 4.8 mg/kg body weight ignificant adverse effects were reported Embryo-foetal development t Route: Oral ntal Toxicity: NOAEL: 3 mg/kg body weight o significant adverse effects were reported Embryo-foetal development
amitr Effect	r <b>az (ISO):</b> ts on fertility	Species: Ra Application Fertility: NO Result: No s : Test Type: E Species: Ra Application Developmer Remarks: N Test Type: E Species: Ra	t Route: Oral AEL: > 4.8 mg/kg body weight ignificant adverse effects were reported Embryo-foetal development t Route: Oral Intal Toxicity: NOAEL: 3 mg/kg body weight o significant adverse effects were reported Embryo-foetal development bbit
amitr Effect	r <b>az (ISO):</b> ts on fertility	Species: Ra Application Fertility: NO Result: No s : Test Type: E Species: Ra Application Developmer Remarks: N Test Type: E Species: Ra Application	t Route: Oral AEL: > 4.8 mg/kg body weight ignificant adverse effects were reported Embryo-foetal development t Route: Oral Intal Toxicity: NOAEL: 3 mg/kg body weight o significant adverse effects were reported Embryo-foetal development bbit Route: Oral
amitr Effect	r <b>az (ISO):</b> ts on fertility	Species: Ra Application Fertility: NO Result: No s : Test Type: E Species: Ra Application Developmer Remarks: N Test Type: E Species: Ra Application Developmer	t Route: Oral AEL: > 4.8 mg/kg body weight ignificant adverse effects were reported Embryo-foetal development t Route: Oral Intal Toxicity: NOAEL: 3 mg/kg body weight o significant adverse effects were reported Embryo-foetal development bbit
amitr Effect Effect ment	r <b>az (ISO):</b> ts on fertility ts on foetal develop-	Species: Ra Application Fertility: NO Result: No s : Test Type: E Species: Ra Application Developmer Remarks: N Test Type: E Species: Ra Application Developmer	t Route: Oral AEL: > 4.8 mg/kg body weight ignificant adverse effects were reported Embryo-foetal development t Route: Oral Intal Toxicity: NOAEL: 3 mg/kg body weight o significant adverse effects were reported Embryo-foetal development bbit Route: Oral Intal Toxicity: NOAEL: 5 mg/kg body weight
amitr Effect ment	r <b>az (ISO):</b> ts on fertility	Species: Ra Application Fertility: NO Result: No s : Test Type: E Species: Ra Application Developmer Remarks: N Test Type: E Species: Ra Application Developmer Result: Effec	t Route: Oral AEL: > 4.8 mg/kg body weight ignificant adverse effects were reported Embryo-foetal development t Route: Oral Intal Toxicity: NOAEL: 3 mg/kg body weight o significant adverse effects were reported Embryo-foetal development bbit Route: Oral ntal Toxicity: NOAEL: 5 mg/kg body weight



rsion	Revision Date: 06.04.2024	SDS Number: Date of last issu 1732056-00016 Date of first issu	
		Application Route: Ingestion Method: OECD Test Guideline 42 Result: negative	2
Effects ment	s on foetal develop-	: Test Type: Embryo-foetal develop Species: Rat Application Route: Ingestion Method: OECD Test Guideline 414 Result: negative	
Alumi	nium silicate:		
Effects ment	s on foetal develop-	: Test Type: Embryo-foetal develop Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from sim	
Sodiu	m bis(2-ethylhexyl)	osuccinate:	
Effects	s on fertility	: Test Type: Three-generation repro Species: Rat Application Route: Ingestion Result: negative	oduction toxicity study
Effects ment	s on foetal develop-	: Test Type: Embryo-foetal develop Species: Rat Application Route: Ingestion Result: negative	ment
	- single exposure assified based on ava	le information.	
<u>Comp</u>	onents:		
	ormaldehyde: sment	: May cause respiratory irritation.	
	- repeated exposure ause damage to orga	hrough prolonged or repeated exposu	ıre.
<u>Comp</u>	onents:		
amitra	<b>az (ISO):</b> t Organs	<ul><li>Liver, Central nervous system</li><li>May cause damage to organs thro</li></ul>	ugh prolonged or repeated
	sment	exposure.	agit protonged of repeated
Asses	sment ormaldehyde:		



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	Remar	ks	:	Based on nationa	l or regional regulation.
	Remarks		•	Dased on hallona	
	Repeated dose toxicity				
	Comp	onents:			
	amitra	z (ISO):			
	Exposi		:	Mouse 3 mg/kg Oral 90 Days Liver	
	Exposi			Dog 0.25 mg/kg Oral 90 Days Central nervous s	system, Liver
	Calciu	m carbonate:			
		L ation Route ure time	:	Rat > 1,000 mg/kg Ingestion 28 Days OECD Test Guide	eline 422
	Alumiı	nium silicate:			
		L ation Route ure time		Rat > 100 mg/kg Ingestion 104 Weeks Based on data fro	om similar materials
	Parafo	rmaldehyde:			
	Specie NOAEI Applica	s L ation Route ure time		Rat, male 15 mg/kg Ingestion 105 Weeks Based on data fro	om similar materials
	Sodiur	n bis(2-ethylhexyl)su	lfos	succinate:	
	Specie NOAEI Applica	S	:	Rat 750 mg/kg Ingestion 90 Days	



ersion .2	Revision Date: 06.04.2024		9S Number: 32056-00016	Date of last issue: 30.09.2023 Date of first issue: 06.06.2017
Not c	ration toxicity lassified based on availa rience with human exp			
Com	ponents:			
amitr Inges	r <b>az (ISO):</b> stion	:	Target Organs: C	entral nervous system
ection 1	2: Ecological information	on		
Ecot	oxicity			
Com	ponents:			
	r <b>az (ISO):</b> tity to fish	:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 0.45 mg/l 5 h
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 0.035 mg/l 3 h
Toxic plants	ity to algae/aquatic s	:	NOEC (Pseudoki mg/l Exposure time: 9 <sup>-</sup>	rchneriella subcapitata (green algae)): 0.04 I h
	ctor (Acute aquatic tox-	:	10	
icity) Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Pimephal mg/l Exposure time: 32	es promelas (fathead minnow)): 0.00148 2 d
aquat	tity to daphnia and other tic invertebrates (Chron-	:	NOEC (Daphnia i Exposure time: 2 <sup>-</sup>	nagna (Water flea)): 0.0011 mg/l I d
ic tox M-Fa toxici	ctor (Chronic aquatic	:	10	
	ium carbonate:			
Toxic	ity to fish	:	Exposure time: 96	Vater Accommodated Fraction
	ity to daphnia and other tic invertebrates	:	Exposure time: 48	Vater Accommodated Fraction
Toxic plants	tity to algae/aquatic s	:	NOELR (Pseudoł mg/l Exposure time: 72	kirchneriella subcapitata (green algae)): 50 2 h



/ersion 5.2	Revision Date: 06.04.2024		9S Number: 32056-00016	Date of last issue: 30.09.2023 Date of first issue: 06.06.2017
			Method: OECD T EL50 (Pseudokire mg/l Exposure time: 7 Test substance: V	Nater Accommodated Fraction Test Guideline 201 chneriella subcapitata (green algae)): > 100 2 h Nater Accommodated Fraction Test Guideline 201
Toxici	ty to microorganisms	:	NOEC: 1,000 mg Exposure time: 3 Method: OECD T EC50: > 1,000 m Exposure time: 3	/l h est Guideline 209 g/l
Alumi	inium silicate:			
	<b>exicology Assessment</b> ic aquatic toxicity	:	No toxicity at the	limit of solubility
	<b>ormaldehyde:</b> ty to fish	:	LC50 : > 1 mg/l Exposure time: 9 Remarks: Based	6 h on data from similar materials
	ty to daphnia and other ic invertebrates	:	Exposure time: 4 Method: OECD T	ulex (Water flea)): > 1 mg/l 8 h est Guideline 202 on data from similar materials
Toxici plants	ty to algae/aquatic	:	Exposure time: 7 Method: OECD T	esmus subspicatus (green algae)): > 1 mg/l 2 h fest Guideline 201 on data from similar materials
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time: 2	atipes (Orange-red killifish)): > 1 mg/l 8 d on data from similar materials
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2 Method: OECD T	magna (Water flea)): > 1 mg/l 1 d est Guideline 211 on data from similar materials
Toxici	ty to microorganisms	:		h est Guideline 209 on data from similar materials



sion	Revision Date: 06.04.2024		OS Number: 32056-00016	Date of last issue: 30.09.2023 Date of first issue: 06.06.2017
Sodiu	um bis(2-ethylhexyl)su	lfos	uccinate:	
Toxici	ity to fish	:	Exposure time: 9	io (zebra fish)): 49 mg/l 96 h e 67/548/EEC, Annex V, C.1.
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia i Exposure time: 4	magna (Water flea)): 6.6 mg/l 48 h
Toxici plants	ity to algae/aquatic	:	ErC50 (Desmode Exposure time: 7	esmus subspicatus (green algae)): 82.5 mg 72 h
			EC10 (Desmode Exposure time: 7	esmus subspicatus (green algae)): 22 mg/l 72 h
	ity to daphnia and other	:		magna (Water flea)): 9 mg/l
aquat ic toxi	ic invertebrates (Chron- icity)		Exposure time: 2 Method: OECD	21 d Test Guideline 211
Toxici	ity to microorganisms	:	EC50 (Pseudom Exposure time: 1	ionas putida): 164 mg/l I6 h
			•	
Persi	stence and degradabil	ity		
	stence and degradabil	ity		
<u>Comp</u> Paraf	ormaldehyde:	ity		
<u>Comp</u> Paraf	ponents:	ity :	Result: Readily b	
<u>Comp</u> Paraf Biode	oonents: formaldehyde: gradability	:	Result: Readily b Remarks: Based	biodegradable.
Comr Paraf Biode Sodiu	ormaldehyde:	: Ifos	Result: Readily b Remarks: Based	biodegradable. I on data from similar materials biodegradable. 91.2 %
Comp Paraf Biode Sodiu Biode	oonents: ormaldehyde: gradability um bis(2-ethylhexyl)su	: Ifos	Result: Readily to Remarks: Based succinate: Result: Readily to Biodegradation:	biodegradable. I on data from similar materials biodegradable. 91.2 %
Comp Paraf Biode Sodiu Biode	oonents: formaldehyde: gradability um bis(2-ethylhexyl)su gradability	: Ifos	Result: Readily to Remarks: Based succinate: Result: Readily to Biodegradation:	biodegradable. I on data from similar materials biodegradable. 91.2 %
Comp Paraf Biode Sodiu Biode Biode	oonents: formaldehyde: gradability um bis(2-ethylhexyl)su gradability ccumulative potential	: Ifos	Result: Readily to Remarks: Based succinate: Result: Readily to Biodegradation:	biodegradable. I on data from similar materials biodegradable. 91.2 %
Comp Paraf Biode Sodiu Biode Biode	conents: formaldehyde: gradability um bis(2-ethylhexyl)su gradability ccumulative potential conents:	: Ifos	Result: Readily k Remarks: Based succinate: Result: Readily k Biodegradation: Exposure time: 2	biodegradable. I on data from similar materials biodegradable. 91.2 %
Comp Paraf Biode Sodiu Biode Bioac Comp Bioac Partiti	conents: formaldehyde: gradability um bis(2-ethylhexyl)sul gradability ccumulative potential conents: az (ISO):	: Ifos	Result: Readily k Remarks: Based succinate: Result: Readily k Biodegradation: Exposure time: 2	piodegradable. d on data from similar materials piodegradable. 91.2 % 28 d
Comp Paraf Biode Sodiu Biode Biode Comp amitra Bioac Partiti octano Paraf	conents: formaldehyde: gradability um bis(2-ethylhexyl)sul gradability ccumulative potential conents: az (ISO): ccumulation	: Ifos	Result: Readily b Remarks: Based <b>Succinate:</b> Result: Readily b Biodegradation: Exposure time: 2 Species: Lepom Bioconcentration	piodegradable. I on data from similar materials piodegradable. 91.2 % 28 d

#### Sodium bis(2-ethylhexyl)sulfosuccinate:

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### **Amitraz Solid Formulation**

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Partit	ion coefficient: n-	:	log Pow: 1.998				
octan	nol/water		Remarks: Calcu	lation			
Mobi	lity in soil						
Com	ponents:						
Distri	r <b>az (ISO):</b> bution among environ- al compartments	:	log Koc: 3.3				
	<b>r adverse effects</b> ata available						
ection 1	3: Disposal considerat	ions	6				
Disp	osal methods						
Wast	e from residues	:		of waste into sewer.			
Contaminated packaging		:	<ul> <li>Dispose of in accordance with local regulations.</li> <li>Empty containers should be taken to an approved waste han dling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>				
ection 1	4: Transport informatio	on	If not otherwise	specified: Dispose of as unused product.			
<b>Inter</b> UNR <sup>-</sup> UN n	national Regulations TDG umber	on :	UN 3077	<u> </u>			
<b>Inter</b> UNR <sup>-</sup> UN n	national Regulations	<b>on</b> :	UN 3077 ENVIRONMEN N.O.S.	<u> </u>			
Intern UNR UN n Prope	national Regulations TDG umber er shipping name	<b>on</b> : :	UN 3077 ENVIRONMEN <sup>-</sup> N.O.S. (amitraz (ISO)) 9	<u> </u>			
Intern UNR UN n Prope Class Packi	national Regulations TDG umber er shipping name	<b>on</b>	UN 3077 ENVIRONMEN <sup>-</sup> N.O.S. (amitraz (ISO)) 9 III	<u> </u>			
Intern UNR UN n Prope Class Packi Labe	national Regulations TDG umber er shipping name	<b>.</b>	UN 3077 ENVIRONMEN <sup>-</sup> N.O.S. (amitraz (ISO)) 9	<u> </u>			
Intern UNR UN n Prope Class Packi Label Envir	national Regulations TDG umber er shipping name s ing group ls	<b>.</b>	UN 3077 ENVIRONMEN <sup>-</sup> N.O.S. (amitraz (ISO)) 9 III 9	<u> </u>			
Intern UNR UN n Prope Class Packi Label Envir IATA UN/II	national Regulations TDG umber er shipping name s ing group ls onmentally hazardous -DGR D No.	<b>on</b>	UN 3077 ENVIRONMEN N.O.S. (amitraz (ISO)) 9 III 9 yes UN 3077	TALLY HAZARDOUS SUBSTANCE, SOLID,			
Intern UNR UN n Prope Class Packi Label Envir IATA UN/II Prope	national Regulations TDG umber er shipping name s ing group ls onmentally hazardous -DGR D No. er shipping name	<b>on</b>	UN 3077 ENVIRONMEN N.O.S. (amitraz (ISO)) 9 III 9 yes UN 3077 Environmentally (amitraz (ISO))	<u> </u>			
Intern UNR UN n Prope Class Packi Label Envir IATA UN/II Prope	national Regulations TDG umber er shipping name s ing group ls onmentally hazardous -DGR D No. er shipping name	<b>on</b>	UN 3077 ENVIRONMEN N.O.S. (amitraz (ISO)) 9 III 9 yes UN 3077 Environmentally (amitraz (ISO)) 9	TALLY HAZARDOUS SUBSTANCE, SOLID,			
Intern UNR UN n Prope Class Packi Label Envir IATA UN/IE Prope Class Packi	national Regulations TDG umber er shipping name s ing group ls onmentally hazardous -DGR D No. er shipping name	<b>on</b>	UN 3077 ENVIRONMEN N.O.S. (amitraz (ISO)) 9 III 9 yes UN 3077 Environmentally (amitraz (ISO)) 9 III	TALLY HAZARDOUS SUBSTANCE, SOLID,			
Intern UNR UN n Prope Class Packi Label Envir IATA UN/II Prope Class Packi Label	national Regulations TDG umber er shipping name s ing group ls onmentally hazardous -DGR D No. er shipping name s ing group ls ing group ls	<b>on</b>	UN 3077 ENVIRONMEN N.O.S. (amitraz (ISO)) 9 III 9 yes UN 3077 Environmentally (amitraz (ISO)) 9	TALLY HAZARDOUS SUBSTANCE, SOLID,			
Intern UNR UN n Prope Class Packi Label Envir IATA UN/II Prope Class Packi Label Packi aircra Packi	national Regulations TDG umber er shipping name s ing group ls onmentally hazardous -DGR D No. er shipping name s ing group ls ing group ls	<b>on</b>	UN 3077 ENVIRONMEN N.O.S. (amitraz (ISO)) 9 III 9 yes UN 3077 Environmentally (amitraz (ISO)) 9 III Miscellaneous	TALLY HAZARDOUS SUBSTANCE, SOLID,			
Intern UNR UN n Prope Class Packi Label Envir IATA UN/IE Prope Class Packi Label Packi aircra Packi ger a	national Regulations TDG umber er shipping name s ing group ls onmentally hazardous -DGR D No. er shipping name s ing group ls ing instruction (cargo aft) ing instruction (passen-	<b>on</b>	UN 3077 ENVIRONMENT N.O.S. (amitraz (ISO)) 9 III 9 yes UN 3077 Environmentally (amitraz (ISO)) 9 III Miscellaneous 956	TALLY HAZARDOUS SUBSTANCE, SOLID,			
Intern UNR UN n Prope Class Packi Label Envir IATA UN/IE Prope Class Packi Label Packi aircra Packi ger a Envir	national Regulations TDG umber er shipping name s ing group ls onmentally hazardous -DGR D No. er shipping name s ing group ls ing instruction (cargo aft) ing instruction (passen- ircraft) onmentally hazardous G-Code	<b>on</b>	UN 3077 ENVIRONMENT N.O.S. (amitraz (ISO)) 9 III 9 yes UN 3077 Environmentally (amitraz (ISO)) 9 III Miscellaneous 956 956 yes	TALLY HAZARDOUS SUBSTANCE, SOLID,			
Intern UNR UN n Prope Class Packi Label Envir IATA UN/IE Prope Class Packi Label Packi aircra Packi ger a Envir	national Regulations TDG umber er shipping name s ing group ls onmentally hazardous -DGR D No. er shipping name s ing group ls ing instruction (cargo aft) ing instruction (passen- ircraft) onmentally hazardous	<b>on</b>	UN 3077 ENVIRONMENT N.O.S. (amitraz (ISO)) 9 III 9 yes UN 3077 Environmentally (amitraz (ISO)) 9 III Miscellaneous 956 956 yes UN 3077	TALLY HAZARDOUS SUBSTANCE, SOLID,			



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Label EmS	ing group	N.O.S. (amitraz (ISO)) : 9 : III : 9 : F-A, S-F : yes	
	-	-	POL 73/78 and the IBC Code
	pplicable for product a	as supplied.	
	onal Regulations		
	5433 umber er shipping name	: UN 3077 : ENVIRONMEN <sup>-</sup> N.O.S. (amitraz (ISO))	TALLY HAZARDOUS SUBSTANCE, SOLID,
Label Hazc	ing group	: 9 : III : 9 : 2Z : no	
The the tase of tas tase of tas tase of tas tase of tas tase o	d upon the properties	(s) provided herein are of the unpackaged mate sifications may vary by r	for informational purposes only, and solely erial as it is described within this Safety Data mode of transportation, package sizes, and var
Section 1	5: Regulatory inform	ation	
Safet ture	y, health and enviro	nmental regulations/le	egislation specific for the substance or mix-
	<b>D Approval Number</b>		
	able Exposure Limits pplicable	(TEL)	
	onmental Exposure Li pplicable	mits (EEL)	
		product are reported ir	n the following inventories:

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

#### Section 16: Other information

NZ OEL / WES-STEL



#### Amitraz Solid Formulation

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R	Revision Date	:	06.04.2024	
F	urther information			
S	fources of key data used to ompile the Safety Data the sheet	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- opa.eu/
D	ate format	:	dd.mm.yyyy	
F	ull text of other abbreviation	ons		
	ICGIH IZ OEL	:		eshold Limit Values (TLV) rkplace Exposure Standards for Atmospher-
A	.CGIH / TWA .CGIH / STEL IZ OEL / WES-TWA	:	8-hour, time-weig Short-term exposi Workplace Expos	

:

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; 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

Workplace Exposure Standard - Short-Term Exposure Limit

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



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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.

NZ / EN