

Vers 4.1	sion	Revision Date: 28.09.2024		0S Number: 27321-00015	Date of last issue: 06.07.2024 Date of first issue: 27.04.2020
SEC		1: Identification of	the	substance/mixt	ure and of the company/undertaking
1.1 F	Product	identifier			
	Trade r	name	:	Amoxicillin Trihyd	rate Formulation
1.2 F	Relevan	nt identified uses of t	he s	ubstance or mixt	ure and uses advised against
	Use of	the Sub- Mixture	:	Veterinary produc	-
	Recom on use	mended restrictions	:	Not applicable	
1.3 E	Details	of the supplier of the	saf	ety data sheet	
	Compa	••	:	MSD 20 Spartan Road 1619 Spartan, So	outh Africa
	Telepho	one	:	+27119239300	
		address of person sible for the SDS	:	EHSDATASTEW	ARD@msd.com
1.4 E	Emerge	ncy telephone numb	er		

+1-908-423-6000

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

:

Hazard pictograms



Signal word

Hazard statements

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



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		H410 Ve	ery toxic to aquatic life with long lasting effects.
Precau	utionary statements	P273 Av	on: void breathing dust. void release to the environment. lear respiratory protection.
		keep com P342 + P3 POISON (	IF INHALED: Remove person to fresh air and fortable for breathing.

Hazardous components which must be listed on the label:

Amoxicillin Trihydrate

#### 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.

Dust contact with the eyes can lead to mechanical irritation.

Contact with dust can cause mechanical irritation or drying of the skin.

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. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Amoxicillin Trihydrate	61336-70-7	Resp. Sens. 1A; H334 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 1	>= 70 - < 90

For explanation of abbreviations see section 16.



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SECTION	N 4: First aid meas	ures	
4.1 Descr	iption of first aid me	asures	
Gene	eral advice	vice immediate	accident or if you feel unwell, seek medical ad- ely. ns persist or in all cases of doubt seek medical
Prote	ction of first-aiders	and use the re	nders should pay attention to self-protection, commended personal protective equipment ntial for exposure exists (see section 8).
lf inha	aled	If not breathing	ove to fresh air. g, give artificial respiration. difficult, give oxygen. tention.
In cas	se of skin contact	: Wash with wat Get medical at	er and soap. tention if symptoms occur.
In cas	se of eye contact		e well with water. tention if irritation develops and persists.
lf swa	allowed	Get medical at	DO NOT induce vomiting. tention if symptoms occur. horoughly with water.
4.2 Most i	important symptoms	and effects, both ac	ute and delayed
Risks	5	: May cause alle ties if inhaled.	ergy or asthma symptoms or breathing difficul-
		other respirato tive airways dy Contact with du the skin.	osure may aggravate preexisting asthma and ry disorders (e.g. emphysema, bronchitis, reac- rsfunction syndrome). ust can cause mechanical irritation or drying of rith the eyes can lead to mechanical irritation.
4.3 Indica	tion of any immedia	te medical attention a	and special treatment needed
Treat	•		natically and supportively.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.



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5.2 S	Special	hazards arising from	the	substance or mi	xture
	Specific fighting	hazards during fire-	:	concentrations, and 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	
5.3 A	Advice f	or firefighters			
	Special for firefi	protective equipment ghters	:		e, wear self-contained breathing apparatus. rective equipment.
	Specific ods	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, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

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

mine which regulations are applicable.	Methods for cleaning up	<ul> <li>Surround spill with absorbents and place a damp covering over the area to minimise entry of the material into the air. Add excess liquid to allow the material to enter into solution. Soak up with inert absorbent material. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Clean up remaining materials from spill with suitable absorbent.</li> <li>Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.</li> </ul>
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		Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.
	nce to other sections as: 7, 8, 11, 12 and 13.	
SECTION	7: Handling and st	orage
7.1 Precau	tions for safe handlir	ıg
Techni	cal measures	<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> </ul>
	Fotal ventilation on safe handling	<ul> <li>Use only with adequate ventilation.</li> <li>Do not breathe dust.</li> <li>Do not swallow.</li> <li>Avoid contact with eyes.</li> </ul>
		<ul> <li>Avoid prolonged or repeated contact with skin.</li> <li>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>Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitisers.</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>Take care to prevent spills, waste and minimize release to the</li> </ul>
Hygien	ne 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. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.</li> <li>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.</li> </ul>
7.2 Conditi	ons for safe storage,	including any incompatibilities
	ements for storage and containers	: Keep in properly labelled containers. Keep tightly closed. Store in accordance with the particular national regulations.
Advice	on common storage	: Do not store with the following product types: Strong oxidizing agents
73 Specifi	c end use(s)	
-	c use(s)	: No data available



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#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
Amoxicillin Trihy- drate	61336-70-7	TWA 1 mg/m3 (OEB 1)		Internal	
	Further information: RSEN				

#### 8.2 Exposure controls

#### **Engineering measures**

Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

#### 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
Land protection		potential for direct contact to the face with dusts, mists, or aerosols.
Hand protection Material	:	Chemical-resistant gloves
Skin and body protection Respiratory protection		Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type	:	Particulates type (P)

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

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

Appearance Colour Odour Odour Threshold	:	powder white to off-white No data available No data available
рН	:	4,5 - 6,5 (as aqueous solution)
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	Not applicable
Evaporation rate	:	Not applicable



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	Flamm	ability (solid, gas)	:	May form explos dling or other me	ive dust-air mixture during processing, han- eans.
		explosion limit / Upper ability limit	:	No data available	9
		explosion limit / Lower ability limit	:	No data available	9
	Vapou	r pressure	:	Not applicable	
	Relativ	e vapour density	:	Not applicable	
	Relativ	e density	:	No data available	9
	Densit	y	:	No data available	9
	Wa Partitic octano	ity(ies) ter solubility on coefficient: n- I/water gnition temperature	:	0,3125 g/l partly Not applicable No data available	
	Decom	position temperature	:	No data available	e
	Viscos Vise	ity cosity, kinematic	:	Not applicable	
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2		nformation ability (liquids)	:	Not applicable	
	Molecu	ular weight	:	No data available	9
	Particle	e size	:	No data available	e

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

#### 10.1 Reactivity

Not classified as a reactivity hazard.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	May form explosive dust-air mixture during processing, han-
		dling or other means.
		Can react with strong oxidizing agents.

10.4 Conditions to avoid



ersion .1	Revision Date: 28.09.2024	SDS Number: 5727321-0001	5 Date of first issue: 06.07.2024 5 Date of first issue: 27.04.2020
Cond	litions to avoid		nes and sparks. It formation.
0.5 Incol	mpatible materials		
	rials to avoid	: Oxidizing	agents
	a <b>rdous decompositic</b> azardous decompositi	-	iown.
ECTION	N 11: Toxicologica	information	
1.1 Infor	mation on toxicolog	ical effects	
	nation on likely routes		
	e toxicity lassified based on ava	ailable information.	
Com	ponents:		
Amo	xicillin Trihydrate:		
Acute	e oral toxicity	: LD50 (Rat)	): > 8.000 mg/kg
		LD50 (Mou	use): > 10.000 mg/kg
		LD50 (Dog	ı): > 3.000 mg/kg
	corrosion/irritation lassified based on ava	ailable information.	
	bus eye damage/eye lassified based on ava		
Resp	iratory or skin sens	tisation	
-	sensitisation lassified based on ava	ailable information.	
-	<b>iratory sensitisation</b> cause allergy or asthn		eathing difficulties if inhaled.
-	ponents:	-	
Amo	xicillin Trihydrate:		
Resu Rema		: Sensitiser : May cause	e sensitisation by inhalation.

Not classified based on available information.



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<u>Com</u>	oonents:		
	<b>xicillin Trihydrate:</b> toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
Geno	toxicity in vivo	: Test Type: M Species: Mo Result: nega	
		Test Type: R Species: Mo Result: nega	
	nogenicity lassified based on ava	ailable information.	
	oductive toxicity lassified based on ava	ailable information.	
	oonents:		
Amo	kicillin Trihydrate:		
Effect	ts on fertility	Result: Redu	Route: Oral AEL: 200 mg/kg body weight
		Result: Redu	Route: Oral EL: 500 mg/kg body weight
Effect ment	ts on foetal develop-		
		Result: Some based on an	use
		Test Type: D Species: Rat Application F Developmen	



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		weight g	Reduced embryonic survival, Reduced offspring ain s: Not classified due to inconclusive data.
	<b>- single exposure</b> lassified based on ava	lable information	on.
	<b>- repeated exposure</b> lassified based on ava		on.
Com	oonents:		
<b>Amo</b> Rema	<b>xicillin Trihydrate:</b> arks	: Not clas	sified due to inconclusive data.
Repe	ated dose toxicity		
Com	oonents:		
Speci Applic	cation Route sure time	: Rat : Oral : 6 Month	s ficant adverse effects were reported
Speci Applio	es cation Route sure time	: Dog : Oral : 6 Month	
•	ration toxicity lassified based on ava	lable information	on.
Expe	rience with human ex	posure	
Com	oonents:		
<b>Amo</b> Inges	<b>kicillin Trihydrate:</b> tion	flatulenc	ns: Nausea, Vomiting, Abdominal pain, Diarrhoe e, skin rash, Breathing difficulties s: May produce an allergic reaction.
ECTION	12: Ecological inf	ormation	
2.1 Toxic	city		
Com	oonents:		
Amo	kicillin Trihydrate:		
	ity to fish	Exposur	arassius auratus (goldfish)): 0,035 mg/l e time: 96 h OECD Test Guideline 203
Toxic	ity to algae/aquatic	: NOEC (	green algae): 530 mg/l



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plant	S		Exposure time: 72	2 h
			EC50 (Synechoco 0,0022 mg/l Exposure time: 96	occus leopoliensis (blue-green algae)): S h
			NOEC (blue-gree Exposure time: 72	n algae): 0,0057 mg/l 2 h
M-Fa icity)	actor (Acute aquatic tox-	:	100	
M-Fa toxici	ictor (Chronic aquatic ity)	:	1	
12.2 Pers	istence and degradabil	lity		
<u>Com</u>	ponents:			
	xicillin Trihydrate: egradability	:	Result: Readily bi Biodegradation: 8 Exposure time: 28 Method: OECD T	38 %
12.3 Bioa	ccumulative potential			
<u>Com</u>	ponents:			
Amo	xicillin Trihydrate:			
Bioad	ccumulation	:	Remarks: Bioacci	umulation is unlikely.
	tion coefficient: n- nol/water	:	log Pow: -0,124 Method: OECD T	est Guideline 107
	<b>ility in soil</b> ata available			
12.5 Rest	ults of PBT and vPvB as	sse	ssment	
<u>Prod</u> Asse	l <mark>uct:</mark> ssment	:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or d very bioaccumulative (vPvB) at levels of
<u>Com</u>	ponents:			
	xicillin Trihydrate: ssment	:	(PBT) Product d	persistent, bioaccumulative, and toxic oes not contain substances which are very ry bioaccumulative (vPvB) at levels of 0.1%



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12.6 Oth	er adverse effects		
-	duct: ocrine disrupting poten-	The substance/mixture does not contain components of ered to have endocrine disrupting properties according REACH Article 57(f) or Commission Delegated regulat (EU) 2017/2100 or Commission Regulation (EU) 2018/ levels of 0.1% or higher.	g to tion
SECTIO	N 13: Disposal consi	rations	
13.1 Was	ste treatment methods		
Proc Con	duct taminated packaging	<ul> <li>Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Care not product specific, but application specific. Waste codes should be assigned by the user, preferable discussion with the waste disposal authorities. Do not dispose of waste into sewer.</li> <li>Empty containers should be taken to an approved was dling site for recycling or disposal. If not otherwise specified: Dispose of as unused production.</li> </ul>	oly in ste han-
SECTIO	N 14: Transport infor	ation	
14.1 UN			
ADN		: UN 3077	
	-	: UN 3077	
RID	L. C.	: UN 3077	
IMD	G	: UN 3077	
IATA		: UN 3077	
	proper shipping name		
ADN		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, S N.O.S. (Amoxicillin Trihydrate)	OLID,
ADR	R	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, S N.O.S. (Amoxicillin Trihydrate)	OLID,
RID		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, S N.O.S. (Amoxicillin Trihydrate)	OLID,
IMD	G	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, S N.O.S. (Amoxicillin Trihydrate)	OLID,
ΙΑΤΑ	A	Environmentally hazardous substance, solid, n.o.s. (Amoxicillin Trihydrate)	
14.3 Trar	nsport hazard class(es)		

### SAFETY DATA SHEET



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			Class	Subsidiary risks
ADN		:	9	
ADR		:	9	
RID		:	9	
IMDG		:	9	
ΙΑΤΑ		:	9	
14.4 Packi	ng group			
Classi	ng group fication Code d Identification Number	:	III M7 90 9	
Classi Hazar Labels	ng group fication Code d Identification Number s el restriction code	:	III M7 90 9 (-)	
Classi Hazar Labels	ng group fication Code d Identification Number	:	III M7 90 9	
IMDG Packir Labels EmS (		:	III 9 F-A, S-F	
Packir aircraf	<b>(Cargo)</b> ng instruction (cargo t) ng instruction (LQ)		956 Y956	
	ng group	:	III Miscellaneous	
	(Passenger) ng instruction (passen-	:	956	
Packir	ng instruction (LQ) ng group	:	Y956 III Miscellaneous	
14.5 Envir	onmental hazards			
<b>ADN</b> Enviro	nmentally hazardous	:	yes	
<b>ADR</b> Enviro	nmentally hazardous	:	yes	
<b>RID</b> Enviro	nmentally hazardous	:	yes	



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-	<b>MDG</b> Marine pollutant	: yes					
	<b>ATA (Passenger)</b> Environmentally hazardous	: yes					
	<b>ATA (Cargo)</b> Environmentally hazardous	: yes					
14.6 \$	Special precautions for use	er					
t S	based upon the properties of	the unpackaged mater cations may vary by m	or informational purposes only, and solely ial as it is described within this Safety Data ode of transportation, package sizes, and var-				
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code							
F	Remarks	: Not applicable for	product as supplied.				
SECTION 15: Regulatory information							

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mix-ture

The components of this	product are repo	orted in the follow	ing inventories:
The components of this	produot die rept		ing 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				
H334	:	May cause allergy or asthma symptoms or breathing difficul- ties if inhaled.		
H400	:	Very toxic to aquatic life.		
H410	:	Very toxic to aquatic life with long lasting effects.		
Full text of other abbreviations				
Aquatic Acute Aquatic Chronic Resp. Sens.	:	Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Respiratory sensitisation		

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; Regula-



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tion (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - 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	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-
Sheet		cy, http://echa.europa.eu/

<b>Classification of the</b>	Classification procedure:	
Resp. Sens. 1	H334	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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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