

Version 2.14	Revision Date: 30.09.2023		lumber: 0-00020	Date of last issue: 04.04.2023 Date of first issue: 05.10.2016
SECTION	1: Identification of	the sub	ostance/m	ixture and of the company/undertaking
1.1 Produ	ct identifier			
Trade	ename	: Flu	uralaner (wit	h Vitamin E) Formulation
I.2 Releva	ant identified uses of	he subs	stance or m	ixture and uses advised against
	of the Sub- e/Mixture	: Ve	terinary pro	duct
Reco on us	mmended restrictions e	: No	ot applicable	
1.3 Details	s of the supplier of the	e safety	data sheet	
Comp	bany	: MS		and
			Spartan Ro 19 Spartan	, South Africa
Telep	hone	: +2	711923930	0
	il address of person Insible for the SDS	: EH	ISDATASTI	EWARD@msd.com
1 4 Emerc	gency telephone numb	or		
-)8-423-6000			
SECTION	V 2: Hazards identifi	cation		
	fication of the substa			
Long	term (chronic) aquatic	• •	Cat- H4	10: Very toxic to aquatic life with long lasting
egory			effe	ects.
	elements			
	Iling (REGULATION (E	C) No 1	272/2008)	
⊓aza	rd pictograms		NV.	

		$\overline{\mathbf{\nabla}}$
Signal word	:	Warning
Hazard statements	:	H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P273 Avoid release to the environment.



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Response:

P391 Collect spillage.

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Fluralaner	864731-61-3	Repr. 2; H361d Aquatic Chronic 1; H410 M-Factor (Chronic aquatic toxicity):	>= 1 - < 2,5
		1.000	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	In the case of accident or if you feel unwell, seek med vice immediately. When symptoms persist or in all cases of doubt seek advice.	
Protection of first-aiders	First Aid responders should pay attention to self-prote and use the recommended personal protective equip when the potential for exposure exists (see section 8)	ment
If inhaled	If inhaled, remove to fresh air. Get medical attention.	
In case of skin contact	In case of contact, immediately flush skin with soap a of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.	nd plenty
In case of eye contact	Flush eyes with water as a precaution.	



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			Get medical att	ention if irritation develops and persists.	
lf swa	llowed	:	Get medical att	O NOT induce vomiting. ention. oroughly with water.	
	mportant symptoms a known.	nd e	effects, both acu	ite and delayed	
4.3 Indica	tion of any immediate	meo	dical attention a	nd special treatment needed	
Treat	-	:		atically and supportively.	
SECTION	1 5: Firefighting meas	sur	es		
5.1 Exting	uishing media				
Suital	ble extinguishing media	:	Water spray Alcohol-resistar Carbon dioxide Dry chemical		
Unsuitable extinguishing media			None known.		
5.2 Specia	al hazards arising from	the	e substance or r	nixture	
Speci fightir	fic hazards during fire- ng	:	Exposure to co	mbustion products may be a hazard to health.	
Haza ucts	rdous combustion prod-	:	Carbon oxides Chlorine compo Fluorine compo		
5.3 Advice	e for firefighters				
	al protective equipment efighters	:		ire, wear self-contained breathing apparatus. rotective equipment.	
Speci ods	fic extinguishing meth-	:	cumstances an Use water spra	ng measures that are appropriate to local cir- d the surrounding environment. y to cool unopened containers. naged containers from fire area if it is safe to do	

reisonal 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).					



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6.2 Enviror	nmental precautions					
Enviro	nmental precautions	Prevent further I Prevent spreadi barriers). Retain and disp Local authorities	 Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. 			
6.3 Method	Is and material for co	ntainment and clear	ning up			
Methods for cleaning up		For large spills, ment to keep ma be pumped, stor Clean up remain bent. Local or nationa posal of this ma employed in the mine which regu Sections 13 and	ert absorbent material. provide dyking or other appropriate contain- aterial from spreading. If dyked material can re recovered material in appropriate container. hing materials from spill with suitable absor- I regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- ulations are applicable. I 15 of this SDS provide information regarding mational requirements.			

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	See Engineering measure CONTROLS/PERSONAL	
Local/Total ventilation Advice on safe handling	Use only with adequate ve Avoid inhalation of vapour Do not swallow. Avoid contact with eyes. Avoid prolonged or repeat Handle in accordance with practice, based on the res sessment	entilation. r or mist.
Hygiene measures	If exposure to chemical is flushing systems and safe place. When using do not nated clothing before re-u The effective operation of engineering controls, prop appropriate degowning an	a facility should include review of per personal protective equipment, ad decontamination procedures, ring, medical surveillance and the

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage : Keep in properly labelled containers. Store in accordance with



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areas	and containers		the particular nat	ional regulations.
Advice on common storage		: Do not store with the following product types: Strong oxidizing agents Gases		
-	ic end use(s) fic use(s)	:	No data available	9

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis		
		of exposure)				
Fluralaner	864731-61-	TWA	100 μg/m3 (OEB 2)	Internal		
	3					
	Further information: Skin					
		Wipe limit	1000 μg/100 cm²	Internal		

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Diethylene glycol monoethyl ether	Workers	Inhalation	Long-term systemic effects	61 mg/m3
	Workers	Inhalation	Long-term local ef- fects	30 mg/m3
	Workers	Skin contact	Long-term systemic effects	83 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	37 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	18 mg/m3
	Consumers	Skin contact	Long-term systemic effects	25 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	50 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Vitamin E	Fresh water	0,516 mg/l
	Marine water	0,0516 mg/l
	Intermittent use/release	0,1 mg/l
	Sewage treatment plant	1000 mg/l
	Fresh water sediment	280000 mg/kg
	Marine sediment	28000 mg/kg
	Soil	228000 mg/kg
Diethylene glycol monoethyl ether	Fresh water	1,98 mg/l
	Marine water	0,198 mg/l



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Freshwater - intermittent	19,8 mg/l
Sewage treatment plant	500 mg/l
Fresh water sediment	7,32 mg/kg dry weight (d.w.)
Marine sediment	0,732 mg/kg dry weight (d.w.)
Soil	0,34 mg/kg dry weight (d.w.)
Oral (Secondary Poisoning)	444 mg/kg food

8.2 Exposure controls

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.

Personal protective equipment

Eye/face protection Hand protection Material		Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
		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	:	Combined particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	liquid yellow No data available No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	103 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable



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		explosion limit / Upper ability limit	:	No data available	
		explosion limit / Lower ability limit	:	No data available	9
	Vapou	pressure	:	No data available	9
	Relativ	e vapour density	:	No data available	9
	Relativ	e density	:	No data available	9
	Density	/	:	1.045 kg/m³ (25 °	°C)
	Partitio octano	er solubility n coefficient: n-	:	soluble Not applicable No data available	9
	Decom	position temperature	:	No data available	9
		cosity, dynamic	:	0,145 Pas (25 °C	,
	Viso	cosity, kinematic	:	139 mm2/s (25 °	C)
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
		nformation ability (liquids)	:	No data available	9
	Molecu	ılar weight	:	Not applicable	
	Particle	e size	:	Not applicable	

SECTION 10: Stability and reactivity

10.1 Reactivity Not classified as a reactivity hazar	d.
10.2 Chemical stability Stable under normal conditions.	
10.3 Possibility of hazardous reaction	ns
Hazardous reactions :	Can react with strong oxidizing agents.
10.4 Conditions to avoid	
Conditions to avoid :	None known.



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0.5 Inco	mpatible materials			
Mate	rials to avoid	:	Oxidizing agents	
10.6 Haza	ardous decomposition	oro	ducts	
	azardous decomposition			
SECTIO	N 11: Toxicological in	for	mation	
11 1 Infor	mation on toxicologica	l ef	fects	
	mation on likely routes of			
expo	sure		Skin contact	
			Ingestion Eye contact	
Acut	e toxicity			
Not c	lassified based on availa	ble	information.	
<u>Com</u>	ponents:			
Flura	laner:			
Acute	e oral toxicity	:	LD50 (Rat): > 2.0	
				tality observed at this dose. rerse effects were reported
Acute	e dermal toxicity	:	LD50 (Rat): > 2.0	00 mg/kg
	·			ificant adverse effects were reported
Skin	corrosion/irritation			
Not c	lassified based on availa	ble	information.	
<u>Com</u>	ponents:			
Flura	laner:			
Spec		:	Rabbit	
Resu	llt	:	No skin irritation	
Serio	ous eye damage/eye irri	itati	on	
Not c	lassified based on availa	ble	information.	
<u>Com</u>	ponents:			
Flura	alaner:			
Spec		:		
Resu	llt	:	Mild eye irritation	
Resp	piratory or skin sensitis	atio	on	
Skin	sensitisation			
	lassified based on availa	ble	information.	



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Resp	iratory sensitisation		
-	lassified based on avai	able information	on.
Com	ponents:		
Flura	laner:		
Test ⁻		: Maximis	ation Test
Expo: Speci	sure routes	: Dermal : Guinea	big
Resu			in sensitizer.
	cell mutagenicity	al la la faces d	
	lassified based on avai	able information	DN.
-	ponents:		
	laner:	-	
Geno	toxicity in vitro	: Test Typ Result: r	e: Bacterial reverse mutation assay (AMES) negative
		Test Typ Result: r	pe: Mouse Lymphoma negative
		Test Typ Result: r	e: Chromosomal aberration negative
Geno	toxicity in vivo	Species Cell type	e: Bone marrow on Route: Oral
Carci	inogenicity		
Not c	lassified based on avai	able information	on.
<u>Com</u>	ponents:		
Flura	laner:		
Carci ment	nogenicity - Assess-	: No data	available
-	oductive toxicity lassified based on avai	able information	on.
<u>Com</u>	ponents:		
Flura	laner:		
Effect	ts on fertility	Species Applicat General General	on Route: Oral Toxicity - Parent: NOAEL: 50 mg/kg body weight Toxicity F1: LOAEL: 100 mg/kg body weight No effects on fertility, Postimplantation loss., Adver



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			Species: Dog Application Route Fertility: NOAEL: Result: No effects ment were detect	75 mg/kg body weight son fertility and early embryonic develop-
Effects on foetal develop- ment		:	Result: Embryoto	e: Oral oxicity: NOAEL: 100 mg/kg body weight xic effects and adverse effects on the off- cted only at high maternally toxic doses, No
			Result: Skeletal n	
			Test Type: Devel Species: Rabbit Application Route Developmental T Result: Skeletal n	e: Dermal oxicity: NOAEL: 100 mg/kg body weight
Reproductiv sessment	e toxicity - As-	:	Suspected of dar	naging the unborn child.
-	jle exposure d based on availa	able	information.	
STOT - repe	eated exposure			
	d based on availa ose toxicity	able	information.	
Component	-			
Fluralaner: Species		:	Dog	
NOAEL Application I Exposure tir Target Orga Remarks	ne	:	1 mg/kg Oral 52 Weeks Liver No significant adv	verse effects were reported
Species		:	Juvenile dog 56 - 280 mg/kg	····



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Expos Targe	L cation Route sure time t Organs		Rat 400 mg/kg Oral 90 Days Liver, thymus glau	nd
Expos	EL cation Route sure time t Organs		Rat 500 mg/kg Dermal 90 Days Liver No significant adv	verse effects were reported
•	ation toxicity assified based on availa	ble	information.	
Comp	oonents:			
Flura l Not ap	laner: oplicable			
Expe	rience with human exp	osi	ire	
<u>Comp</u>	oonents:			
Flura				
	contact ontact	:	Remarks: May irri Remarks: May ca	
SECTION	12: Ecological infor	ma	tion	
12.1 Toxic	ity			
Comp	oonents:			
Flural				
Toxici	ty to fish	:	Exposure time: 96 Method: OECD T	
	ty to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD T	
Toxici plants	ty to algae/aquatic	:	0,08 mg/l Exposure time: 72 Method: OECD T	
Toxici	ty to fish (Chronic tox-	:	NOEC: >= 0,049	mg/l



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	icity)				
		/ to daphnia and other invertebrates (Chron- ity)			
	M-Fact	or (Chronic aquatic)	:	1.000	
		tence and degradabil a available	lity		
12.3	Bioaco	cumulative potential			
	Compo	onents:			
	Flurala Bioaccu	n er: umulation	:		h factor (BCF): 79,4 est Guideline 305
	Partitio octanol	n coefficient: n- /water	:	log Pow: 4,5	
12.4	Mobilit	ty in soil			
	Compo	onents:			
		ner: Ition among environ- compartments	:	log Koc: 4,1	
12.5	Result	s of PBT and vPvB as	sse	ssment	
	<u>Produc</u> Assess		:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
	Compo	onents:			
	Flurala Assess	-	:	This substance is lating and toxic (F	not considered to be persistent, bioaccumu- PBT).
12.6	Other a	adverse effects			
	Produc Endocr tial	:t: ine disrupting poten-	:	ered to have end	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation



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			(EU) 2017/210 levels of 0.1%	00 or Commission Regulation (EU) 2018/605 at or higher.		
SECTION	I 13: Disposal cons	idera	tions			
13.1 Wast	e treatment methods					
Product			Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.			
Conta	aminated 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	I 14: Transport info	rmati	on			
14.1 UN n	umber					
ADN			UN 3082			
ADR			UN 3082			
RID			UN 3082			
IMDG	i		: UN 3082			
IATA		: UN 3082				
14.2 UN p	roper shipping name					
ADN			ENVIRONMEI N.O.S. (Fluralaner)	NTALLY HAZARDOUS SUBSTANCE, LIQUID,		
ADR			ENVIRONMEI N.O.S. (Fluralaner)	NTALLY HAZARDOUS SUBSTANCE, LIQUID,		
RID			: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluralaner)			
IMDG			ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluralaner)			
ΙΑΤΑ			Environmentally hazardous substance, liquid, n.o.s. (Fluralaner)			
14.3 Trans	sport hazard class(es)				
			Class	Subsidiary risks		
ADN		:	9			
ADR		:	9			
			9			



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IN	MDG		:	9	
	ATA		:	9	
14.4 P	Packin	g group			
P C H	Classifi	g group cation Code Identification Number	:	III M6 90 9	
Pi C H La	lassifi lazard abels	g group cation Code Identification Number restriction code	:	III M6 90 9 (-)	
P C H	Classifi	g group cation Code Identification Number	:	III M6 90 9	
P: La	MDG Packing abels EmS Co	g group ode	:	III 9 F-A, S-F	
Pa ai Pa Pa	Packing ircraft) Packing	Cargo) g instruction (cargo g instruction (LQ) g group	:	964 Y964 III Miscellaneous	
IA Pi ge Pi Pi	ATA (F Packing er airc Packing	Passenger) g instruction (passen- raft) g instruction (LQ) g group	:	964 Y964 III Miscellaneous	
14.5 E	Inviro	nmental hazards			
	DN Inviron	mentally hazardous	:	yes	
А	DR	mentally hazardous	:	yes	
	RID Environ	mentally hazardous	:	yes	
	MDG Iarine	pollutant	:	yes	
		Passenger) mentally hazardous	:	yes	



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IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

The components of this product are reported in the following inventories:

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information	:	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of H-Statements

	Suspected of damaging the unborn child. Very toxic to aquatic life with long lasting effects.
Full text of other abbreviations	5

Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Repr.	:	Reproductive toxicity

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships car-



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rying 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/

Classification of the mixture:

Classification procedure:

Aquatic Chronic 1	H410	Calculation method
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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

ZA / EN