

WM 0712474	Order number: 0712474	
Version 4.0	Revision Date 02.11.2017	Print Date 06.12.2017

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name	:	SANET ZITROTAN 2 X 5 LITER
Identification number	:	61219

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture	: Cleaning agent
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Restricted to professional users.

#### 1.3 Details of the supplier of the safety data sheet

Company	: tana Chemie GmbH
	Rheinallee 96
	55120 Mainz
Telephone	: +49613196403
Telefax	: +4961319642414
E-mail address	: Produktsicherheit@werner-mertz.com
Responsible/issuing person	
Contact person	: Product development / product safety

#### 1.4 Emergency telephone number

+49(0)6131-19240

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### 2.2 Label elements

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

Not a hazardous substance or mixture.

Safety data sheet available on request.

#### 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. No information available.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Chemical nature	: Aqueous solution
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Hazardous	components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)



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	Registration number		
citric acid	77-92-9 201-069-1 01-2119457026-42	Eye Irrit. 2; H319	>= 2 - < 5
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3 01-2119488639-16	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412 SCL 5 - < 10 % 2; H319 >= 10,0 % 1; H318	>= 1 - < 2

For explanation of abbreviations see section 16.

# **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

	General advice	:	No hazards which require special first aid measures.	
	If inhaled	:	Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.	
	In case of skin contact	:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.	
	In case of eye contact	:	Protect unharmed eye. If easy to do, remove contact lens, if worn. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.	
	If swallowed	:	Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.	
4.2 I	Most important symptoms and effe	ect	s, both acute and delayed	
	Symptoms	:	No information available.	
	Risks	:	No information available.	
4.3 I	4.3 Indication of any immediate medical attention and special treatment needed			
	Treatment	:	For specialist advice physicians should contact the Poisons Information Service.	



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SECTION 5: Firefighting measure	s			
5.1 Extinguishing media				
Suitable extinguishing media	:	Use extinguishing measures that are approcircumstances and the surrounding environ	•	
5.2 Special hazards arising from the	sul	ostance or mixture		
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to encourses.	ter drains or water	
Hazardous combustion products	:	No hazardous combustion products are kn	lown	
5.3 Advice for firefighters				
Special protective equipment for firefighters	:	In the event of fire, wear self-contained bre	eathing apparatus.	
Further information	:	Collect contaminated fire extinguishing wa not be discharged into drains. Fire residue extinguishing water must be disposed of in regulations.	s and contaminated fire	

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Use personal protective equipment.
6.2 Environmental precautions	

Environmental precautions	: Try to prevent the material from entering drains or water courses.
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#### 6.3 Methods and materials for containment and cleaning up

N	<i>l</i> ethods for cleaning up	:	Neutralize with chalk, alkali solution or ammonia. Sweep up and shovel. Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Advice on safe handling

: For personal protection see section 8. No special handling advice required.



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Advice on protection against fire and explosion	: Normal measures for preventive fire prote	ction.		
Hygiene measures	: Wash hands before breaks and at the end of workday.			
7.2 Conditions for safe storage, incl	uding any incompatibilities			
Requirements for storage areas and containers	e areas : Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container.			
Advice on common storage	: No special restrictions on storage with oth	er products.		
Other data	: No decomposition if stored and applied as	directed.		
No decomposition if stored and applied as directed.				
7.3 Specific end use(s)				
Specific use(s)				

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

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### DNEL

Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3:	: End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 2750 mg/kg
	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 175 mg/m3
	End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 1650 mg/kg
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 52 mg/m3
	End Use: Consumers Exposure routes: Ingestion



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	Potential health effects: Long-term systemic eff Value: 15 mg/kg	ects		
	End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term local effects Value: 0,132 mg/cm2			
	End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term local effects Value: 0,079 mg/cm2			
PNEC				
citric acid 77-92-9:	: Fresh water Value: 0,44 mg/l			
	Marine water Value: 0,044 mg/l			
	STP Value: > 1000 mg/l			
	Fresh water sediment Value: 34,6 mg/kg			
	Marine sediment Value: 3,46 mg/kg			
	Soil Value: 33,1 mg/kg			
Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3:	: Fresh water Value: 0,24 mg/l			
	Marine water Value: 0,024 mg/l			
	Fresh water sediment Value: 0,9168 mg/kg			
	Marine sediment Value: 0,09168 mg/kg			
	Soil Value: 7,5 mg/kg			
	STP Value: 10000 mg/kg			
	intermittent release Value: 0,071 mg/l			



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8.2 Exposure controls				
Personal protective equipment				
Eye protection	: not required under normal use			
Hand protection				
Material	: not required under normal use			
	For prolonged or repeated contact use p Chemical resistant gloves made of butyl category III according to EN 374-1: 2003	rubber or nitrile rubber		
Remarks	: Take note of the information given by the permeability and break through times, ar conditions (mechanical strain, duration o	nd of special workplace		
Skin and body protection	: not required under normal use			
Respiratory protection	: not required under normal use			
Environmental exposure controls	5			
General advice	: Try to prevent the material from entering	drains or water courses.		

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

## 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	red
Odour	:	like fruit
Odour Threshold	:	No data available
рН	:	ca. 2,4
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Burning rate	:	No data available
Lower explosion limit	:	No data available
Upper explosion limit	:	No data available



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Vapour pressure	: No data available	
Relative vapour density	: No data available	
Relative density	: No data available	
Density	: ca. 1,025 g/cm3	
Water solubility	: soluble	
Solubility in other solvents	: No data available	
Partition coefficient: n- octanol/water	: No data available	
Ignition temperature	: No data available	
Thermal decomposition	: No data available	
Viscosity, dynamic	: ca. 1.200 mPa.s	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

#### 9.2 Other information

none

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

#### 10.1 Reactivity

Stable under recommended storage conditions., No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions					
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# **SECTION 11: Toxicological information** 11.1 Information on toxicological effects Product : According to the classification criteria of the European Union, the Skin corrosion/irritation product is not considered as being a skin irritant. Serious eye damage/eye : According to the classification criteria of the European Union, the irritation product is not considered as being an eye irritant. Respiratory or skin sensitisation : No data available Further information : No data available Components: citric acid 77-92-9: Acute oral toxicity : LD50 Oral Mouse: 5.400 mg/kg Method: OECD Test Guideline 401 LD50 Oral Rat: 11.700 mg/kg Method: OECD Test Guideline 401 LD50 Oral Mouse: 5.000 mg/kg LD50 Oral : 3.000 mg/kg Acute dermal toxicity : LD50 Dermal Rat: > 2.000 mg/kg Acute toxicity (other routes of : see user defined free text Rat: 725 mg/kg administration) Application Route: see user defined free text see user defined free text Mouse: 940 mg/kg Application Route: see user defined free text Skin corrosion/irritation : Result: Mild skin irritation Serious eye damage/eye : Result: Eye irritation irritation Respiratory or skin sensitisation : Result: Does not cause skin sensitisation. Carcinogenicity - Assessment : Not classifiable as a human carcinogen.



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Repeated dose toxicity	: Rat: NOAEL: 4.000 mg/kg LOAEL: 8.000 mg/kg Application Route: Oral Exposure time: 10 d	
Alcohols, C12-14, ethoxylated, s 68891-38-3:	sulfates, sodium salts	
Acute oral toxicity	: LD50 Oral Rat: 4.100 mg/kg Method: OECD Test Guideline 401 GLP: no	
	LD50 Oral Rat: 2.000 - 5.000 mg/kg Method: OECD Test Guideline 401 Test substance: see user defined free te	ext
	LD50 Oral Rat: > 5.000 mg/kg Method: OECD Test Guideline 401 Test substance: see user defined free te	ext
Acute dermal toxicity	: LD50 Rat: > 2.000 mg/kg Method: OECD Test Guideline 402 GLP: yes	
Skin corrosion/irritation	: Species: Rabbit Method: OECD Test Guideline 404	
Serious eye damage/eye irritation	: Species: Rabbit Method: OECD Test Guideline 405 Test substance: see user defined free te	ext
	Species: Rabbit Method: OECD Test Guideline 405 Test substance: see user defined free te	ext
Respiratory or skin sensitisation	: Test Method: Maximisation Test Species: Guinea pig Result: Did not cause sensitisation on la Method: OECD Test Guideline 406	boratory animals.
Germ cell mutagenicity		
Genotoxicity in vitro	: Result: negative Method: OECD Test Guideline 471	
Reproductive toxicity	: Species: Rat Application Route: Oral NOAEL: > 300 mg/kg, F1: > 300 mg/kg, Method: OECD Test G	Guideline 416



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Teratogenicity	<ul> <li>Species: Rat Application Route: Oral</li> <li>&gt;1.000 mg/kg</li> <li>&gt; 1.000 mg/kg</li> <li>Method: see user defined free text</li> </ul>			
Repeated dose toxicity	: Rat: NOAEL: > 225 mg/kg Application Route: Oral Exposure time: 90 Days Method: see user defined free text Target Organs: Liver			
STOT - repeated exposure	: Exposure routes: Ingestion Target Organs: Liver			

# **SECTION 12: Ecological information**

12.1 Toxicity

1 TOXICITY	
<u>Components:</u> citric acid  77-92-9:	
Toxicity to fish :	LC50 (Leuciscus idus (Golden orfe)): 440 - 760 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 1.535 mg/l Exposure time: 24 h
	EC50 (Daphnia magna (Water flea)): ca. 120 mg/l Exposure time: 72 h
Toxicity to algae :	NOEC (Scenedesmus quadricauda (Green algae)): 425 mg/l Exposure time: 8 Days Test Type: static test
Toxicity to bacteria :	(Pseudomonas putida): > 10.000 mg/l Exposure time: 16 h
Alcohols, C12-14, ethoxylated, su 68891-38-3:	lfates, sodium salts
Toxicity to fish :	LC50 (Danio rerio (zebra fish)): 7,1 mg/l Exposure time: 96 h Test Type: flow-through test Method: OECD Test Guideline 203 GLP: yes
	LC50 (Fish): > 1 - 10 mg/l



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		Test Type: semi-static test Method: OECD Test Guideline 203		
		LC50 (Leuciscus idus (Golden orfe)): 1 Method: OECD Test Guideline 203	0 - 100 mg/l	
		NOEC (Oncorhynchus mykiss (rainbow Exposure time: 28 d Test Type: flow-through test Method: OECD Test Guideline 204	v trout)): 0,14 mg/l	
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia pulex (Water flea)): 7,4	l mg/l	
		EC50 (Daphnia magna (Water flea)): > Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202	1 - 10 mg/l	
		NOEC (Daphnia magna (Water flea)): Exposure time: 21 d Test Type: flow-through test Method: OECD Test Guideline 211	0,27 mg/l	
Toxicity to algae	:	EC50 (Desmodesmus subspicatus (gre Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201 GLP: yes	een algae)): 27,7 mg/l	
		EC50 (Scenedesmus subspicatus): 10 Method: OECD Test Guideline 201	- 100 mg/l	
		EC50 (Desmodesmus subspicatus (gre Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201	een algae)): > 10 - 100 mg/l	
		NOEC : 0,95 mg/l Test Type: Growth inhibition Method: OECD Test Guideline 201		
Toxicity to bacteria	:	EC50 (Pseudomonas putida): > 10 g/l Exposure time: 16 h Test Type: Cell multiplication inhibition Method: DIN 38412 GLP: yes	test	
		EC10 (Pseudomonas putida): > 10 g/l Test Type: Cell multiplication inhibition GLP:	test	
Toxicity to fish (Chronic toxicity)	:	NOEC: 1,2 mg/l		
		NOEC: 1 - 10 mg/l		



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		Species: Leuciscus idus (Golden orfe)	
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: > 0,1 - 1 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211	
12.2 Persistence and degradability			
Product:			
Biodegradability	:	Remarks: The surfactant(s) contained in (comply) with the biodegradability criteria (EC) No. 648/2004 on detergents.	
<u>Components:</u> citric acid 77-92-9:			
Biodegradability	:	Result: Readily biodegradable Biodegradation: 97 % Exposure time: 28 d Method: OECD 301 B	
		Result: Readily biodegradable Biodegradation: 100 % Exposure time: 19 d Method: OECD 301 E	
Biochemical Oxygen Demand (BOD)	:	526 mg/g	
Chemical Oxygen Demand (COD)	:	728 mg/g	
ThOD	:	0,75 g/g	
l Alcohols, C12-14, ethoxylated, 68891-38-3:	sul	fates, sodium salts	
Biodegradability	:	Test Type: aerobic Result: rapidly biodegradable Biodegradation: > 70 % Exposure time: 28 d Method: OECD 301 A	
12.3 Bioaccumulative potential			
<u>Components:</u> citric acid			
77-92-9: Bioaccumulation	:	Remarks: Bioaccumulation is unlikely.	
Partition coefficient: n- octanol/water	:	log Pow: -1,72	



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Alcohols, C12-14, ethoxylated, so 68891-38-3: Bioaccumulation	Ilfates, sodium salts : Remarks: Bioaccumulation is unlikely.	
l 12.4 Mobility in soil		
<u>Components:</u> Alcohols, C12-14, ethoxylated, si 68891-38-3:		
Distribution among environmental compartments	: Adsorption/Soil Medium:Soil Koc: 191Method: see user defined free	e text
12.5 Results of PBT and vPvB assess	ment	
Product:		
Assessment	: This substance/mixture contains no co either persistent, bioaccumulative and and very bioaccumulative (vPvB) at le	toxic (PBT), or very persistent
<u>Components:</u> citric acid 77-92-9:		
Assessment	: This substance is not considered to be and toxic (PBT) This substance is no persistent and very bioaccumulating (	t considered to be very
Alcohols, C12-14, ethoxylated, si 68891-38-3:	ulfates, sodium salts	
Assessment	: This substance is not considered to be bioaccumulating (vPvB) This substar persistent, bioaccumulating and toxic	nce is not considered to be
12.6 Other adverse effects		
Product:		
Additional ecological information	: There is no data available for this proc	luct.

## **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods Product : Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging : Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.



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Waste Code	European Waste Catalogue 20 01 29* According to the European Waste Catalogue product specific, but application specific. Wa assigned by the user, preferably in discussio disposal authorities.	ste codes should be

#### **SECTION 14: Transport information**

## 14.1 UN number

ADR Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

14.2 Proper shipping name Not regulated as a dangerous good

#### 14.3 Transport hazard class

ADR Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

#### 14.4 Packing group

ADR Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

# 14.5 Environmental hazards

ADR Not dangerous goods Not regulated as a dangerous good IATA Not dangerous goods

#### 14.6 Special precautions for user

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

## **SECTION 15: Regulatory information**

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

: Directive 96/82/EC does not apply



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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	: Not applicable	
TA Luft List (Germany)	<ul> <li>Total dust: Not applicable</li> <li>Inorganic substances in powdered form: Not</li> <li>Inorganic substances in vapour or gaseous f 0,01 %</li> <li>Organic Substances: portionClass 1: &lt; 0,01</li> <li>Carcinogenic substances: Not applicable</li> <li>Mutagenic: Not applicable</li> <li>Toxic to reproduction: Not applicable</li> </ul>	orm: : portionClass 3: <
Volatile organic compounds (VOC) content	: Percent volatile: 0,02 % 3,19 g/l VOC content excluding water	
Volatile organic compounds (VOC) content	: Percent volatile: 0,02 % 0,15 g/l VOC content valid only for coating materials	used on wood surfaces
according to Detergents Regulation EC 648/2004	: <5% Anionic surfactants, Perfumes	

#### 15.2 Chemical safety assessment

There is no data available for this product.

## **SECTION 16: Other information**

#### Full text of H-Statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

#### **Further information**

Classification procedure:

Calculation method

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS -Australian Inventory of Chemical Substances; 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



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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; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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