

Issuing Date 15-Jan-2025

Revision date 15-Jan-2025

Revision Number 1

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

### 1.1. Product identifier

**Product Name** Titanium Dioxide Pigment:  
TiONA® 3, TiONA® RCL-69, TiONA® 470 / CR-470, TiONA® 722, TiONA® 4000, TiONA® 8300 / 8300, TiONA® 8400 / 8400, TiONA® 8870 / 8870, TiKON™ 33 / TR-33, TiKON™ 36 / TR-36

### Other means of identification

**REACH registration number** 01-2119489379-17-XXXX (TiO<sub>2</sub>)  
**Synonyms** Titanium dioxide

**Pure substance/mixture** Mixture

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

**Recommended use** Pigment

**Uses advised against** For industrial use only

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

#### Supplier

Tronox Pigments (Holland) BV  
3197KK Rotterdam-Botlek  
The Netherlands  
tele: +31 181 246600

For further information, please contact

**Contact Point** Product Stewardship

**E-mail address** chemprodsteward@tronox.com

### 1.4. Emergency telephone number

**Emergency Telephone** 24 Hour Emergency Phone Number  
CHEMTREC (EMEA): +44 20 3885 0382  
CHEMTREC (International): +1 703 527 3887

Emergency Telephone - §45 - (EC)1272/2008	
Europe	112
Austria	+43 1 3649237
Belgium	+32 2 808 32 37
Denmark	+45 69 91 85 73
Finland	+358 9 42419014
France	+33 9 75 18 14 07
Germany	0800 1817059
Ireland	+353 1 901 4670

Italy	+39 02 4555 7031
Netherlands	+31 85 888 0596
Poland	+48 22 398 80 29
Portugal	+351 308 801 773
Spain	+34 931768511
Sweden	+46 8 525 034 03
Switzerland	+41 435081970
United Kingdom	+44 20 3807 3798

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### **Classification according to Regulation (EC) No. 1272/2008 [CLP]**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### **Hazard statements**

EUH212 - Warning! Hazardous respirable dust may be formed when used. Do not breathe dust

EUH210 - Safety data sheet available on request

### 2.3. Other hazards

**Other hazards** None known.

**PBT & vPvB** The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Titanium dioxide 13463-67-7	>80	01-2119489379-17-XXXX	236-675-5 (022-006-00-2)	-	-	-	-

#### **Full text of H- and EUH-phrases: see section 16**

#### **Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Titanium dioxide 13463-67-7	> 5000	> 2000 (ATEmix)	> 6,82	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

#### Additional information

EU Commission Delegated Regulation (EU) 2020/217 on 4 October 2019 published the 14th ATP to amend the CLP Regulation, specifically Note 10: The classification as a carcinogen (Cat. 2) by inhalation applies only to mixtures in powder form containing 1% or more of titanium dioxide which is in the form of or incorporated in particles with an aerodynamic diameter  $\leq 10\mu\text{m}$ . Testing has confirmed that Tronox's TiONA®, TiKON™ and CristalACTiV™ titanium dioxide products do not contain > 1% particles with an aerodynamic diameter of  $\leq 10\mu\text{m}$  and therefore do not meet the criteria for the EU harmonised classification as a carcinogen (Cat. 2) by inhalation.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	No hazards which require special first aid measures.
<b>Inhalation</b>	Remove to fresh air. (Call a doctor if symptoms occur).
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids.
<b>Skin contact</b>	Wash skin with soap and water.
<b>Ingestion</b>	Clean mouth with water.
<b>Self-protection of the first aider</b>	Use personal protective equipment as required. See section 8 for more information.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Inhalation of dust in high concentration may cause irritation of respiratory system.
-----------------	--

### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Note to doctors</b>	Treat symptomatically.
------------------------	------------------------

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable Extinguishing Media</b>	Product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use extinguishing agent suitable for type of surrounding fire.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.

### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards arising from the chemical</b>	None known.
---	-------------

**Hazardous combustion products** Non-combustible.  
**5.3. Advice for firefighters**

**Special protective equipment and precautions for fire-fighters** Protective equipment and precautions for firefighters.

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

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

**Personal precautions** Ensure adequate ventilation. Avoid contact with skin and eyes. Use personal protective equipment as required.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

### **6.2. Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### **6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information.

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

### **7.1. Precautions for safe handling**

**Advice on safe handling** Ensure adequate ventilation. Avoid contact with skin and eyes. Use personal protection equipment. Wash hands before breaks and after work.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended. Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work.

### **7.2. Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Storage class (TRGS 510)** Not applicable.

### **7.3. Specific end use(s)**

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Titanium dioxide 13463-67-7	-	TWA: 5 mg/m <sup>3</sup> STEL 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10.0 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Titanium dioxide 13463-67-7	-	-	TWA: 6 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	-
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup> (a,TiO <sub>2</sub> ) TWA: 5 mg/m <sup>3</sup> (a,dust)	TWA: 1.25 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	TWA: 0.3 mg/m <sup>3</sup> Peak: 2.4 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Titanium dioxide 13463-67-7	-	-	-	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup>
Chemical name	Sweden		Switzerland		United Kingdom
Titanium dioxide 13463-67-7	NGV: 5 mg/m <sup>3</sup>		TWA: 3 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>

#### Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

#### Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Titanium dioxide 13463-67-7	-	-	1.25 mg/m <sup>3</sup>

#### Derived No Effect Level (DNEL) - General Public

No information available.

#### Predicted No Effect Concentration (PNEC)

No information available.

### 8.2. Exposure controls

#### Engineering controls

Showers  
Eyewash stations  
Ventilation systems.

**Personal protective equipment**

<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles). Appropriate eye/face protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.
<b>Hand protection</b>	No special protective equipment required. Appropriate hand protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.
<b>Skin and body protection</b>	No special protective equipment required. Appropriate skin and body protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction..
<b>Respiratory protection</b>	None under normal use conditions. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.
<b>Recommended filter type:</b>	Filtering Half-face mask (DIN EN 149), B2E2P3 according EN141 & 143 format.
<b>Thermal hazards</b>	None under normal processing.
<b>General hygiene considerations</b>	Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended. Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work.
<b>Environmental exposure controls</b>	Prevent product from entering drains.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	Solid	
<b>Appearance</b>	Powder	
<b>Colour</b>	white	
<b>Odour</b>	None	
<b>Odour threshold</b>	Not applicable	
<b>Property</b>	<b>Values</b>	<b>Remarks</b>
<b>Melting point / freezing point</b>	1830 °C	Melting point / melting range
<b>Boiling point / boiling range</b>	2972 °C	-
<b>Flammability (solid, gas)</b>	No data available	Not flammable
<b>Flammability Limit in Air</b>		Not applicable
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Flash point</b>	No data available	Not applicable
<b>Autoignition temperature</b>	375 °C	Not applicable
<b>Decomposition temperature</b>	=	Not applicable
<b>pH</b>	6 - 9	10g/100ml aqueous solution
<b>pH (as aqueous solution)</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	Not applicable
<b>Dynamic viscosity</b>	No data available	Not applicable
<b>Water solubility</b>	Insoluble in water	-
<b>Solubility(ies)</b>	Insoluble in common solvents	-
<b>Partition coefficient</b>	No data available	Not applicable
<b>Vapour pressure</b>	No data available	Not applicable

Relative density	3.7-4.1	(water = 1)
Bulk density	0.4 - 0.8 g/cm <sup>3</sup>	
Liquid Density	No data available	
Vapour density		No data available
Particle characteristics		Method: Median equivalent diameter as measured by Laser Diffraction (this value is independent of aerodynamic diameter)
Particle Size	0.5 µm	Method: Median equivalent diameter (MED) as measured by Laser Diffraction
Particle Size Distribution	0.3 - 0.7 µm	

**9.2. Other information**

VOC content None

**9.2.1. Information with regards to physical hazard classes**

Explosives Not an explosive

Explosive properties Not an explosive

Oxidising properties None known

**9.2.2. Other safety characteristics**

None known

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Reactivity Stable.

**10.2. Chemical stability**

Stability Stable under normal conditions.

**Explosion data**

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions None under normal processing.

Hazardous polymerisation None under normal processing.

**10.4. Conditions to avoid**

Conditions to avoid None known.

**10.5. Incompatible materials**

Incompatible materials None known based on information supplied.

**10.6. Hazardous decomposition products**

Hazardous decomposition products None known.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	Inhalation of dust in high concentration may cause irritation of respiratory system.
<b>Eye contact</b>	Inert foreign body hazard only.
<b>Skin contact</b>	Repeated exposure may cause skin dryness or cracking.
<b>Ingestion</b>	Not an expected route of exposure.

**Symptoms related to the physical, chemical and toxicological characteristics**

<b>Symptoms</b>	Inhalation of dust in high concentration may cause irritation of respiratory system.
-----------------	--

**Acute toxicity**

Based on available data, the classification criteria are not met

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Titanium dioxide	> 5000 mg/kg ( Rat )	-	> 6,82 mg/L ( Rat ) 4 h

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met.
<b>Respiratory or skin sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met. See section 3 for more information.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>Developmental toxicity</b>	Based on available data, the classification criteria are not met.
<b>Teratogenicity</b>	None known.
<b>STOT - single exposure</b>	Based on available data, the classification criteria are not met.
<b>STOT - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.

**11.2. Information on other hazards****11.2.1. Endocrine disrupting properties**



Endocrine disrupting properties None known.

#### 11.2.2. Other information

Other adverse effects None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecotoxicity Not considered to be harmful to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Titanium dioxide	ErC50: >100 mg/l (72h, Pseudokirchneriella subcapitata)	LC50: >1000 mg/l (96h, Pimephales promelas)	-	-

### 12.2. Persistence and degradability

Persistence and degradability Titanium Dioxide, is an inorganic metal oxide, therefore this does not apply.

### 12.3. Bioaccumulative potential

Bioaccumulation None known.

### 12.4. Mobility in soil

Mobility in soil Not mobile.

Mobility Not mobile.

### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

### 12.6. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

### 12.7. Other adverse effects

Other adverse effects None known.

PMT or vPvM properties Based on available data, the classification criteria are not met.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.  
Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Waste codes / waste designations according to EWC / AVV** Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14: Transport information

### IATA

14.1	UN number or ID number	Not regulated
14.2		
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable
14.6	Special Precautions for Users	
	Special Provisions	None

### IMDG

14.1	UN number or ID number	Not regulated
14.2		
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable
14.6	Special Precautions for Users	
	Special Provisions	None
14.7	Maritime transport in bulk according to IMO instruments	Not applicable

### RID

14.1	UN number or ID number	Not regulated
14.2		
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable
14.6	Special Precautions for Users	
	Special Provisions	None

### ADR

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable
14.6	Special Precautions for Users	
	Special Provisions	None

## SECTION 15: Regulatory information

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

#### National regulations

##### **Germany**

Water hazard class (WGK) non-hazardous to water (nwg)

##### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorisations and/or restrictions on use:**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AIIC</b>	Complies
<b>NZIoC</b>	Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AIIC** - Australian Inventory of Industrial Chemicals  
**NZIoC** - New Zealand Inventory of Chemicals **NZIC** - New Zealand Inventory of Chemicals

**15.2. Chemical safety assessment****Chemical Safety Report**

A Chemical Safety Assessment has been carried out for this substance

**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet****Legend**

SVHC: Substances of Very High Concern for Authorisation:  
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances  
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

**Legend Section 8: Exposure controls/personal protection**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value Ceiling Limit Value	Sk*	Skin designation
+	Sensitisers		

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
European Chemicals Agency (ECHA) (ECHA\_API)  
Environmental Protection Agency  
Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
National Institute of Technology and Evaluation (NITE)  
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
U.S. National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

<b>Prepared By</b>	Product Stewardship
<b>Issuing Date</b>	15-Jan-2025
<b>Revision date</b>	15-Jan-2025
<b>Reason for revision</b>	Not applicable
<b>Restrictions on use</b>	This product is not intended for consumption, cosmetic, pharmaceutical or medical end use. Tronox will not knowingly sell product for use into these applications.
<b>Training Advice</b>	This document contains important information to ensure the safe storage, handling and use of this product. It is the responsibility of your organization to ensure that the information contained within this document is communicated to the end user and that all necessary training to enable the product to be used correctly has been given.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

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.

**End of Safety Data Sheet**