

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STANDART RESIST 211 Aluminium Powder

Version 1.2      Revision Date: 26.03.2018      SDS Number: 102000000283      Print Date: 19.11.2018  
Date of first issue: 24.01.2017

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

#### 1.1 Product identifier

Trade name : STANDART RESIST 211 Aluminium Powder  
Product code : 049185D70 049185D70

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

This information is not available.

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

Company : ECKART GmbH  
Guentersthal 4  
91235 Hartenstein  
  
Telephone : +499152770  
  
Telefax : +499152777008  
  
E-mail address of person responsible for the SDS : msds.eckart@altana.com

#### 1.4 Emergency telephone number

GBK Gefahrgut Büro GmbH, Ingelheim, Germany:  
From outside US : (001) 352-323-3500  
(First call in English, response in your language is possible)  
US & Canada (toll free) : 1-800-5355-053

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Flammable solids, Category 1      H228: Flammable solid.

**Information concerning particular hazards for human and environment:** : Please refer to our website for further important safety instructions for handling aluminium powder:  
[http://www.eckart.net/fileadmin/eckart/Service/GDA\\_Alupulver\\_Safety\\_engl.pdf](http://www.eckart.net/fileadmin/eckart/Service/GDA_Alupulver_Safety_engl.pdf)

#### 2.2 Label elements

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

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Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H228      Flammable solid.
Precautionary statements	:	<b>Prevention:</b> P210      Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P240      Ground and bond container and receiving equipment. P241      Use explosion-proof electrical/ ventilating/ lighting equipment. P280      Wear protective gloves/ protective clothing/ eye protection/ face protection. <b>Response:</b> P370 + P378      In case of fire: Use for extinction: Special powder for metal fires. P370 + P378      In case of fire: Use for extinction: Dry sand.

### 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

#### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification REGULATION (EC) No 1272/2008	Concentration (% w/w)
aluminium powder (stabilised)	7429-90-5 231-072-3 013-002-00-1 01-2119529243-45	Flam. Sol. 1; H228	>= 50 - <= 100

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice      :    Move the victim to fresh air.  
  
Move out of dangerous area.

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- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water.  
  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

None known.

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

This information is not available.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Dry sand  
Special powder against metal fire
- Unsuitable extinguishing media : ABC powder  
Carbon dioxide (CO<sub>2</sub>)  
Water  
Foam

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

- Specific hazards during firefighting : Contact with water liberates extremely flammable gas (hydrogen).

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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### SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Evacuate personnel to safe areas.  
Avoid dust formation.  
Remove all sources of ignition.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Use mechanical handling equipment.  
Do not use a vacuum cleaner.

Do not flush with water.  
Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For personal protection see section 8.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid creating dust.  
Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.  
Store away from heat.

For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Use explosion-proof equipment. During processing, dust may form explosive mixture in air. Take measures to prevent the build up of electrostatic charge. When transferring from one container to another apply earthing measures and use conductive hose material.

Keep away from open flames, hot surfaces and sources of ignition.

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Hygiene measures : Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : Earthing of containers and apparatuses is essential. Reaction with water liberates extremely flammable gas (hydrogen) Use explosion-proof equipment. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep container closed when not in use.

No smoking. Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Protect from humidity and water.

Advice on common storage : Do not store together with oxidizing and self-igniting products. Never allow product to get in contact with water during storage. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Further information on storage stability : Keep in a dry place. No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

This information is not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis (Version Date)
aluminium powder (stabilised)	7429-90-5	TWA (Respirable fraction)	1,5 mg/m <sup>3</sup>	SK OEL (2007-06-20)
		TWA (Inhalable fraction)	4 mg/m <sup>3</sup>	SK OEL (2007-06-20)
		TWA (Solid aerosols, total fraction)	10 mg/m <sup>3</sup>	SK OEL (2007-06-20)
		TWA (Solid aerosols, respirable fraction)	1,5 mg/m <sup>3</sup>	SK OEL (2007-06-20)
silicon dioxide	7631-86-9	TWA (Total fraction)	10 mg/m <sup>3</sup>	SK OEL (2011-11-23)

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Further information	<p>The OEL for solid aerosols is determined as value of an average workday of the exposure to the total concentration of the solid aerosol (NPELc) or to the respiration fraction (NPELr). A workplace can be considered acceptable, if the appropriate solid aerosol complies with both OEL-values. In case components occur in a mixture, the OEL for the individual components of the mixture apply., Solid aerosols with a mainly fibrogenic influence, A insoluble solid aerosol will be considered as fibrogenic, if the substance contains more than 1% of a fibrogenic component and during animal test an obvious fibrogenic reaction of the lungs was shown. As fibrogenic are considered insoluble solid aerosols, including aerosol droplets containing more than 1% and during animal tests an obvious fibrogenic reaction of the lungs was shown. For the aerosol containing fibrogenic components always use the respirable fraction and concentration of fibrogenic components. If the aerosol contains less than 1% SiO<sub>2</sub> and does not contain asbestos, it is considered an aerosol not otherwise specified.</p>			
		TWA (Respirable fraction)	2 mg/m <sup>3</sup>	SK OEL (2011-11-23)
Further information	<p>The respirable fraction is the part of the components of the solid aerosols ≤ 5 µm, which is taken from the air sample out of the respiration area of the employer with a specified method and which components can get through in the alveoli. Measurement of the respirable fraction is according to the Johannesburg convention (STN EN 481). Measurement strategy, choosing the appropriate processing procedure and treatment should be taken from STN EN 482 and STN EN 689., Solid aerosols with a mainly fibrogenic influence, A insoluble solid aerosol will be considered as fibrogenic, if the substance contains more than 1% of a fibrogenic component and during animal test an obvious fibrogenic reaction of the lungs was shown. As fibrogenic are considered insoluble solid aerosols, including aerosol droplets containing more than 1% and during animal tests an obvious fibrogenic reaction of the lungs was shown. For the aerosol containing fibrogenic components always use the respirable fraction and concentration of fibrogenic components. If the aerosol contains less than 1% SiO<sub>2</sub> and does not contain asbestos, it is considered an aerosol not otherwise specified.</p>			
Further information	<p>If the contents of fibrous constituent &gt; 1% in the respirable fraction of the substance, the respirable fraction is calculated according to the formula: <math>NPHVr = 10/Fr</math> (mg/m<sup>3</sup>), The respirable fraction is the part of the components of the solid aerosols ≤ 5 µm, which is taken from the air sample out of the respiration area of the employer with a specified method and which components can get through in the alveoli. Measurement of the respirable fraction is according to the Johannesburg convention (STN EN 481). Measurement strategy, choosing the appropriate processing procedure and treatment should be taken from STN EN 482 and STN EN 689., Solid aerosols with a mainly fibrogenic influence, A insoluble solid aerosol will be considered as fibrogenic, if the substance contains more than 1% of a fibrogenic component and during animal test an obvious fibrogenic reaction of the lungs was shown. As fibrogenic are considered insoluble solid aerosols, including aerosol droplets containing more than 1% and during animal tests an obvious fibrogenic reaction of the lungs was shown. For the aerosol containing fibrogenic components always use the respirable fraction and concentration of fibrogenic components. If the aerosol contains less than 1% SiO<sub>2</sub> and does not contain asbestos, it is considered an aerosol not otherwise specified.</p>			

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		TWA (Solid aerosols, total fraction)	10 mg/m <sup>3</sup> (Silica)	SK OEL (2011-11-23)
Further information	The OEL for solid aerosols is determined as value of an average workday of the exposure to the total concentration of the solid aerosol (NPELc) or to the respiration fraction (NPELr). A workplace can be considered acceptable, if the appropriate solid aerosol complies with both OEL-values. In case components occur in a mixture, the OEL for the individual components of the mixture apply., Solid aerosols with a mainly fibrogenic influence, A insoluble solid aerosol will be considered as fibrogenic, if the substance contains more than 1% of a fibrogenic component and during animal test an obvious fibrogenic reaction of the lungs was shown. As fibrogenic are considered insoluble solid aerosols, including aerosol droplets containing more than 1% and during animal tests an obvious fibrogenic reaction of the lungs was shown. For the aerosol containing fibrogenic components always use the respirable fraction and concentration of fibrogenic components. If the aerosol contains less than 1% SiO <sub>2</sub> and does not contain asbestos, it is considered an aerosol not otherwise specified.			
		TWA (Solid aerosols, respirable fraction)	2 mg/m <sup>3</sup>	SK OEL (2011-11-23)
Further information	The respirable fraction is the part of the components of the solid aerosols <= 5 µm, which is taken from the air sample out of the respiration area of the employer with a specified method and which components can get through in the alveoli. Measurement of the respirable fraction is according to the Johannesburg convention (STN EN 481). Measurement strategy, choosing the appropriate processing procedure and treatment should be taken from STN EN 482 and STN EN 689., Solid aerosols with a mainly fibrogenic influence, A insoluble solid aerosol will be considered as fibrogenic, if the substance contains more than 1% of a fibrogenic component and during animal test an obvious fibrogenic reaction of the lungs was shown. As fibrogenic are considered insoluble solid aerosols, including aerosol droplets containing more than 1% and during animal tests an obvious fibrogenic reaction of the lungs was shown. For the aerosol containing fibrogenic components always use the respirable fraction and concentration of fibrogenic components. If the aerosol contains less than 1% SiO <sub>2</sub> and does not contain asbestos, it is considered an aerosol not otherwise specified.			

### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
aluminium powder (stabilised)	7429-90-5	Aluminium (Aluminium): 60 µg/g creatinine (Urine)	No restrictions	SI OEL
		Aluminium (Aluminium): 0.2518 micromoles per millimole creatinine (Urine)	No restrictions	SI OEL

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

Substance name	End Use	Exposure routes	Potential health effects	Value
aluminium powder (stabilised)	Workers	Inhalation	long term – local effects	3,72 mg/m <sup>3</sup>
	Consumers	Oral	long term – systemic effects	3,95 mg/kg

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

Substance name	Environmental Compartment	Value
aluminium powder (stabilised)	Fresh water	0,0749 mg/l
	clarification plant	20 mg/l

## 8.2 Exposure controls

### Personal protective equipment

Eye protection : Face-shield  
Safety glasses

Hand protection  
Material : Leather  
Glove length : Long sleeve gloves

Remarks : Leather gloves The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.  
The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Anti-static and fire resistant protective clothing. DIN EN 11612; EN 533; EN 1149-1. Anti-static safety shoes.  
Dust impervious protective suit  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Use suitable breathing protection if workplace concentration requires.  
Breathing apparatus with filter.  
P1 filter

### Environmental exposure controls

Water : The product should not be allowed to enter drains, water courses or the soil.



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### SECTION 9: Physical and chemical properties

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

Appearance	: powder
Colour	: silver
Odour	: odourless
Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: 660 °C
Boiling point/boiling range	: 2.467 °C
Flash point	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Self-ignition	: No data available
Auto-ignition temperature	: 340 °C
Smoldering temperature	: 230 °C
Decomposition temperature	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: 30 g/m <sup>3</sup>
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: 2,5 g/cm <sup>3</sup>
Bulk density	: No data available
Water solubility	: No data available

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Solubility in other solvents : No data available  
Partition coefficient: n-octanol/water : No data available  
Decomposition temperature : No data available  
Viscosity, dynamic : No data available  
Viscosity, kinematic : No data available  
Flow time : No data available

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Contact with acids and alkalis may release hydrogen.  
Stable under recommended storage conditions.  
Dust may form explosive mixture in air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Acids  
Bases  
Oxidizing agents  
Water

### 10.6 Hazardous decomposition products

Contact with water or humid air : This information is not available.

Thermal decomposition : This information is not available.

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

Not classified based on available information.

##### Components:

##### aluminium powder (stabilised):

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

##### Skin corrosion/irritation

Not classified based on available information.

##### Serious eye damage/eye irritation

Not classified based on available information.

##### Respiratory or skin sensitisation

##### Skin sensitisation

Not classified based on available information.

##### Respiratory sensitisation

Not classified based on available information.

##### Germ cell mutagenicity

Not classified based on available information.

##### Carcinogenicity

Not classified based on available information.

##### Reproductive toxicity

Not classified based on available information.

##### STOT - single exposure

Not classified based on available information.

##### STOT - repeated exposure

Not classified based on available information.

##### Aspiration toxicity

Not classified based on available information.

##### Further information

##### Product:

Remarks: No data available

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### SECTION 12: Ecological information

#### 12.1 Toxicity

No data available

#### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : 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..

#### 12.6 Other adverse effects

**Product:**

Additional ecological information : No data available

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### SECTION 13: Disposal considerations

European Waste Catalogue : 12 01 04 - non-ferrous metal dust and particles  
European Waste Catalogue : 10 03 21 - other particulates and dust (including ball-mill dust) containing dangerous substances

#### 13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.  
In accordance with local and national regulations.

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### SECTION 14: Transport information

#### 14.1 UN number

**ADR** : UN 1309  
**IMDG** : UN 1309  
**IATA** : UN 1309

#### 14.2 UN proper shipping name

**ADR** : ALUMINIUM POWDER, COATED  
**IMDG** : ALUMINIUM POWDER, COATED  
**IATA** : Aluminium powder, coated

#### 14.3 Transport hazard class(es)

**ADR** : 4.1  
**IMDG** : 4.1  
**IATA** : 4.1

#### 14.4 Packing group

**ADR**  
Packing group : II  
Classification Code : F3  
Hazard Identification Number : 40  
Labels : 4.1  
Tunnel restriction code : (E)

**IMDG**  
Packing group : II  
Labels : 4.1  
EmS Code : F-G, S-G  
Remarks : IMDG Code segregation group 15 - Powdered metals

#### **IATA (Cargo)**

Packing instruction (cargo aircraft) : 448  
Packing instruction (LQ) : Y441  
Packing group : II  
Labels : Flammable Solid

#### **IATA (Passenger)**

Packing instruction (passenger aircraft) : 445  
Packing instruction (LQ) : Y441  
Packing group : II  
Labels : Flammable Solid

#### 14.5 Environmental hazards

**ADR**  
Environmentally hazardous : no

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### IMDG

Marine pollutant : no

### 14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

### 15.2 Chemical safety assessment

This information is not available.

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## SECTION 16: Other information

### Full text of H-Statements

H228 : Flammable solid.

### Full text of other abbreviations

Flam. Sol. : Flammable solids  
SI OEL : Slovakia. Biological Limit Values  
SK OEL : Slovakia. Chemical factors at work - Maximum acceptable exposure limits for chemical factors in the working environment  
SK OEL / TWA : Long term exposure limit

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 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 -

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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

### Further information

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.

SK / EN