

## Silver Alloy [Ag, Cu, Zn]

Version 4.0

DE

SDS Number: 300000002696

Revision Date: 10.06.2021

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

Product identifier : Silver Alloy [Ag, Cu, Zn]

Trade name : Ag 925/50/25; Ag 935/60/5; Ag 935/49/16; AgCu5Zn5; 750 AgL1; 750/753 Lot cdf; 700 Lot cdf; 675 AgL1; 600 AgL2; 4404 cdf; L-Ag60; L-Ag67; L-Ag70; L-Ag75; AgCu4,9Zn1,6; AgCu26Zn14; AgCu23,5Zn9; AgCu17,4Zn12,6; AgCu23Zn2

Product code : 300000002696

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

Use of the Sub-  
stance/Mixture : wires, sheets metal, tubes

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

Company : Allgemeine Gold- und Silberscheideanstalt AG  
Kanzlerstrasse 17  
75175 Pforzheim  
Germany

E-mail address of person  
responsible for the SDS : EHS-Info@agosi.de

#### 1.4 Emergency telephone number

##### Poison Center

Telephone : +49 30 192 40

Hours of operation : 24HRS

##### Supplier

Emergency telephone num-  
ber : For transport in Europe, Central- and South America, Israel  
and Africa (Non-Arabic speaking countries): (+32) 3 213 15 70  
For transport in the Middle East (Israel excluded) & Arabic  
speaking Africa: (+32) 3 213 33 79  
For transport in the USA and Canada: (+1)-877 986 4267  
For transport in Asian and the Pacific (China excluded): (+65)  
62 64 78 36  
For transport in China: (+86) 400 88 71 190

Hours of operation : This telephone number is available 24 hours per day, 7 days  
per week.

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Not a hazardous substance or mixture.

#### 2.2 Label elements

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

Not a hazardous substance or mixture.

##### Additional Labelling

EUH210 Safety data sheet available on request.

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 30 %

#### 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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 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)
Substances with a workplace exposure limit :			
silver	7440-22-4 231-131-3 01-2119555669-21		<= 100

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General advice : Do not leave the victim unattended.

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- If inhaled : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
- In case of skin contact : Cover wound with sterile dressing.
- In case of eye contact : Remove contact lenses.  
Protect unharmed eye.  
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

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Water mist  
Water spray jet  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

- Unsuitable extinguishing media : High volume water jet

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

- Hazardous combustion products : Metal oxides

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : No special protective equipment required.
- 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

### 6.2 Environmental precautions

- Environmental precautions : No special environmental precautions required.

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

Methods for cleaning up : Sweep up and shovel.  
Pick up and transfer to properly labelled containers.

### 6.4 Reference to other sections

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice. Wash hands before breaks and at the end of workday.

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

Storage class (TRGS 510) : 13, Non Combustible Solids

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

### 7.3 Specific end use(s)

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
silver	7440-22-4	TWA	0,01 mg/m <sup>3</sup> (Silver)	2006/15/EC
		Further information: Indicative		
		TWA	0,1 mg/m <sup>3</sup>	2000/39/EC
		Further information: Indicative		
		AGW (Inhalable fraction)	0,1 mg/m <sup>3</sup>	DE TRGS 900
		Peak-limit: excursion factor (category): 8;(II)		
		TWA (Dust and fume)	0,1 mg/m <sup>3</sup>	ACGIH

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

Substance name	End Use	Exposure routes	Potential health effects	Value
silver	Workers	Inhalation	Long-term systemic effects	0,1 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic	0,04 mg/m <sup>3</sup>

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			effects	
	Consumers	Oral	Long-term systemic effects	1,2 mg/kg
Copper	Workers	Dermal	Acute systemic effects	273 mg/kg
	Workers	Inhalation	Acute systemic effects	18,2 mg/m3
	Consumers	Dermal	Long-term systemic effects	137 mg/kg
	Consumers	Dermal	Acute systemic effects	273 mg/kg
	Consumers	Inhalation	Acute systemic effects	18,2 mg/m3
	Consumers	Oral	Acute systemic effects	0,16 mg/kg
	Consumers	Oral	Long-term systemic effects	0,16 mg/kg
zinc	Workers	Inhalation	Long-term systemic effects	5 mg/m3
	Workers	Dermal	Long-term systemic effects	83 mg/kg
	Consumers	Inhalation	Long-term systemic effects	2,5 mg/m3
	Consumers	Oral	Long-term systemic effects	0,83 mg/kg
	Consumers	Dermal	Long-term systemic effects	83 mg/kg

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

Substance name	Environmental Compartment	Value
silver	Fresh water	0,00004 mg/l
Remarks:	Assessment Factors	
	Marine water	0,00086 mg/l
	Assessment Factors	
	Fresh water sediment	438 mg/kg dry weight (d.w.)
	Assessment Factors	
	Marine sediment	438 mg/kg dry weight (d.w.)
	Assessment Factors	
	Soil	1,41 mg/kg dry weight (d.w.)
	Sewage treatment plant	0,025 mg/l
	Assessment Factors	
Copper	Fresh water	0,0078 mg/l
Remarks:	Sensitivity Distribution	
	Marine water	0,0052 mg/l
	Sensitivity Distribution	
	Fresh water sediment	87 mg/kg dry weight (d.w.)
	Sensitivity Distribution	
	Soil	65,5 mg/kg dry weight (d.w.)
	Sensitivity Distribution	

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	Sewage treatment plant	0,23 mg/l
Assessment Factors		
zinc	Fresh water	0,0206 mg/l
	Marine water	0,0061 mg/l
	Sewage treatment plant	0,052 mg/l
	Fresh water sediment	117,8
	Marine sediment	56,5
	Soil	35,6

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Wear safety glasses with side shields or goggles.

Hand protection  
Material : Leather gloves

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : massive form

Colour : white

Odour : odourless

Melting point/range : 720 - 900 °C

Flammability : May be combustible at high temperature.

Flash point : Not applicable

Solubility(ies)  
Water solubility : insoluble

Relative density : 9,1 - 10,3

Density : 9,1 - 10,3 g/cm<sup>3</sup>

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

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### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.

### 10.4 Conditions to avoid

### 10.5 Incompatible materials

### 10.6 Hazardous decomposition products

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

##### Product:

Acute dermal toxicity : Remarks: No data available

##### Components:

##### **silver:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 10 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 436

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 402

#### Skin corrosion/irritation

##### Product:

Remarks : No data available

##### Components:

##### **silver:**

Species : Rabbit  
Exposure time : 72 h  
Method : OECD Test Guideline 404  
Result : No skin irritation

#### Serious eye damage/eye irritation

##### Product:

Remarks : No data available

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### Components:

#### **silver:**

Species : Guinea pig  
Exposure time : 72 h  
Method : OECD Test Guideline 405  
Result : No eye irritation

### **Respiratory or skin sensitisation**

#### Product:

Remarks : No data available

### Components:

#### **silver:**

Exposure routes : Skin contact  
Species : Guinea pig  
Method : OPPTS 870.2600  
Result : Does not cause skin sensitisation.  
Remarks : Based on read across from structural related substance

Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.  
Remarks : Based on read across from structural related substance

### **Germ cell mutagenicity**

#### Product:

Genotoxicity in vitro : Remarks: No data available

### Components:

#### **silver:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Bacteria  
Method: OECD Test Guideline 471  
Result: negative

Test system: mammalian cells  
Method: OECD Test Guideline 476  
Result: positive  
Remarks: Based on read across from structural related substance

Test Type: Micronucleus test  
Test system: mammalian cells  
Method: OECD Test Guideline 487  
Result: negative  
Remarks: Based on read across from structural related substance



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Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mammalian-Animal  
Method: OECD Test Guideline 474  
Result: negative

Germ cell mutagenicity- Assessment : Overall, there is no consistent evidence of induction of genetic toxicity with relevance to humans.

**Carcinogenicity**

**Product:**

Remarks : No data available

**Reproductive toxicity**

**Product:**

Effects on fertility : Remarks: No data available

**Components:**

**silver:**

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Dose: 62,5; 125, 250 milligram per kilogram  
Duration of Single Treatment: 28 days  
General Toxicity - Parent: NOAEL: > 250 mg/kg body weight  
General Toxicity F1: NOAEL: > 250 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: No effects on fertility and early embryonic development were detected.  
GLP: yes

Effects on foetal development : Species: Rat  
Strain: Sprague-Dawley  
Application Route: Oral  
Dose: 6,5; 19,4; 64,6 milligram per kilogram  
General Toxicity Maternal: LOAEL: 19,4 mg/kg body weight  
Developmental Toxicity: NOAEL: > 64,6 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects, Maternal toxicity  
GLP: yes  
Remarks: unit expressed as mg metal/kg  
Based on read across from structural related substance

Species: Rat  
Strain: Sprague-Dawley  
Application Route: Oral  
Dose: 6,5; 19,4; 64,6 milligram per kilogram  
General Toxicity Maternal: NOAEL: 6,5 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects  
GLP: yes

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Remarks: unit expressed as mg metal/kg  
Based on read across from structural related substance

### STOT - single exposure

#### Product:

Remarks : No data available

### STOT - repeated exposure

#### Product:

Remarks : No data available

### Repeated dose toxicity

#### Components:

##### silver:

Species : Rat  
NOAEL : 30 mg/kg  
LOAEL : 300 mg/kg  
Application Route : Oral  
Exposure time : 28 d  
Dose : 30; 300; 1000  
Method : OECD Test Guideline 407

Species : Rat  
NOAEL : 30 mg/kg  
LOAEL : 125 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Number of exposures : 1/d  
Dose : 30; 125; 500  
Method : OECD Test Guideline 408

Species : Rat, male and female  
NOAEL : 133 µg/m<sup>3</sup>  
LOAEL : 515 µg/m<sup>3</sup>  
Application Route : inhalation (dust/mist/fume)  
Exposure time : 6 h/d 90 d  
Number of exposures : 5/7 d  
Method : OECD Test Guideline 413

Species : Rat  
NOAEL : 9 mg/kg  
Application Route : Oral  
Exposure time : 28 d  
Dose : 2,25; 4,5; 9

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### 11.2 Information on other hazards

#### Endocrine disrupting properties

##### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Further information

##### Product:

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **silver:**

Toxicity to fish : Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : Remarks: No toxicity at the limit of solubility

Toxicity to fish (Chronic toxicity) : Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: No toxicity at the limit of solubility

Toxicity to soil dwelling organisms : EC10: 5,3 mg/kg  
Exposure time: 28 d  
Species: Eisenia fetida (earthworms)

NOEC: 22,5 mg/kg  
Exposure time: 28 d  
Species: Eisenia fetida (earthworms)

Plant toxicity : 0,13 mg/kg  
Test period: 17 d  
Species: Lactuca sativa (lettuce)

Sediment toxicity : NOEC: 12 mg/kg  
Duration: 10 d  
Species: Hyalella azteca  
Remarks: Fresh water

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### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

#### Components:

#### silver:

Bioaccumulation : Bioconcentration factor (BCF): 70

### 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 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

#### Product:

Additional ecological information : No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of in accordance with the European Directives on waste and hazardous waste.  
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.

Contaminated packaging : Dispose of contaminated packaging as if unused product.

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### SECTION 14: Transport information

#### 14.1 UN number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 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.

### SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

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

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

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

Water contaminating class : nwg not water endangering

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- (Germany) Code Number: 1.443  
Remarks: VwVwS  
Classification according to AwSV, Annex 1 (4)
- TA Luft List (Germany) : Total dust:  
Not applicable  
Inorganic substances in powdered form:  
portion Class 3: 70 %  
  
Inorganic substances in vapour or gaseous form:  
Not applicable  
Organic Substances:  
Not applicable  
Carcinogenic substances:  
Not applicable  
Mutagenic:  
Not applicable  
Toxic to reproduction:  
Not applicable
- Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Not applicable

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

- TCSI : On the inventory, or in compliance with the inventory
- TSCA : All substances listed as active on the TSCA inventory
- AIIC : On the inventory, or in compliance with the inventory
- DSL : All components of this product are on the Canadian DSL
- ENCS : Not in compliance with the inventory
- ISHL : Not in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory
- NZIoC : On the inventory, or in compliance with the inventory
- CH INV : On the inventory, or in compliance with the inventory

**15.2 Chemical safety assessment**

**SECTION 16: Other information**

**Full text of other abbreviations**

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2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2006/15/EC	:	Europe. Indicative occupational exposure limit values
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
DE TRGS 900	:	Germany. TRGS 900 - Occupational exposure limit values.
2000/39/EC / TWA	:	Limit Value - eight hours
2006/15/EC / TWA	:	Limit Value - eight hours
ACGIH / TWA	:	8-hour, time-weighted average
DE TRGS 900 / AGW	:	Time Weighted Average

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; AIIIC - 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 carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; 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.

DE / EN