

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ProFLAKE Zn 3000 Zinc Powder

Version 3.1      Revision Date: 17.03.2023      SDS Number: 102000002493      Print Date: 15.04.2024  
Date of first issue: 24.01.2014

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

#### 1.1 Product identifier

Trade name : ProFLAKE Zn 3000 Zinc Powder  
Product code : 026196K60

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

Use of the Substance/Mixture : Colouring agents, pigments

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

Company : ECKART Suisse SA  
Route de la Brasserie 2  
1963 Vétroz  
Telephone : +410273454800  
Telefax : +410273454859  
E-mail address of person responsible for the SDS : [msds.eckart@altana.com](mailto:msds.eckart@altana.com)

#### 1.4 Emergency telephone number

NCEC: +44 1235 239670 (Europe)  
Call and response in your language is possible.  
Contract no.: ECKART29003-NCEC.

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Short-term (acute) aquatic hazard, Category 1      H400: Very toxic to aquatic life.  
Long-term (chronic) aquatic hazard, Category 1      H410: Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ProFLAKE Zn 3000 Zinc Powder

Version 3.1      Revision Date: 17.03.2023      SDS Number: 102000002493      Print Date: 15.04.2024  
Date of first issue: 24.01.2014

Hazard pictograms	:		
Signal word	:	Warning	
Hazard statements	:	H410	Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	<b>Prevention:</b> P273 <b>Response:</b> P391 <b>Disposal:</b> P501	Avoid release to the environment. Collect spillage. Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Other hazards

Combustible Solids

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	ClassificationREGULATION (EC) No 1272/2008	Concentration (% w/w)
zinc powder — zinc dust (stabilised)	7440-66-6  231-175-3 030-001-01-9 01-2119467174-37	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 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.  
Remove from exposure, lie down.  
No hazards which require special first aid measures.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ProFLAKE Zn 3000 Zinc Powder

Version	Revision Date:	SDS Number:	Print Date: 15.04.2024
3.1	17.03.2023	102000002493	Date of first issue: 24.01.2014

---

- |                         |   |                                                                                                                                                                               |
|-------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| If inhaled              | : | If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.                                                                 |
| In case of skin contact | : | Wash off immediately with soap and plenty of water.                                                                                                                           |
| In case of eye contact  | : | Flush eyes with water as a precaution.<br>Remove contact lenses.<br>Keep eye wide open while rinsing.                                                                         |
| If swallowed            | : | Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>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   | : | Dry sand<br>Special powder against metal fire |
| Unsuitable extinguishing media | : | Carbon dioxide (CO <sub>2</sub> )<br>Water    |

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

- |                                      |   |                                                                                                                                                   |
|--------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Specific hazards during firefighting | : | Contact with water liberates extremely flammable gas (hydrogen).<br><br>Do not allow run-off from fire fighting to enter drains or water courses. |
|--------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------|

#### 5.3 Advice for firefighters

- |                                               |   |                                                                                                                                                                                                                         |
|-----------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Special protective equipment for firefighters | : | Wear self-contained breathing apparatus for firefighting if necessary.                                                                                                                                                  |
| Further information                           | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ProFLAKE Zn 3000 Zinc Powder

Version 3.1      Revision Date: 17.03.2023      SDS Number: 102000002493      Print Date: 15.04.2024  
Date of first issue: 24.01.2014

---

### 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.

#### 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 : Do not flush with water.  
  
Use mechanical handling equipment.  
  
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.  
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 : Fine dust dispersed in air may ignite. Keep away from heat and sources of ignition. No smoking. Take measures to prevent the build up of electrostatic charge. Earthing of containers and apparatuses is essential. Use explosion-proof equipment.  
  
Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice. Do not smoke. Wash hands before breaks and at the end of workday. Keep away from food and drink. Keep away from tobacco products.  
Wash hands before breaks and at the end of workday.

Dust explosion class : St2

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ProFLAKE Zn 3000 Zinc Powder

Version 3.1      Revision Date: 17.03.2023      SDS Number: 102000002493      Print Date: 15.04.2024  
Date of first issue: 24.01.2014

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

Requirements for storage areas and containers : Store in original container. Keep container tightly closed in a dry and well-ventilated place. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - 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.

Further information on storage stability : 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
zinc powder — zinc dust (stabilised)	7440-66-6	TWA (Inhalable)	10 mg/m <sup>3</sup>	GB EH40
		TWA (Respirable fraction)	4 mg/m <sup>3</sup>	GB EH40

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Fatty acids, C16-18	Workers	Skin contact	Long-term systemic effects	10 mg/kg
	Workers	Inhalation	Long-term systemic effects	17.632 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	2.5 mg/kg
zinc powder — zinc dust (stabilised)	Workers	Skin contact	Long-term systemic effects	5 mg/kg
	Workers	Inhalation	Long-term systemic effects	4.348 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	5 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	83 mg/kg
	Workers	Inhalation	Long-term systemic effects	5 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	2.5 mg/m <sup>3</sup>

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ProFLAKE Zn 3000 Zinc Powder

Version  
3.1

Revision Date:  
17.03.2023

SDS Number:  
102000002493

Print Date: 15.04.2024  
Date of first issue: 24.01.2014

			effects	
	Consumers	Skin contact	Long-term systemic effects	83 mg/kg
	Consumers	Ingestion	Long-term systemic effects	0.83 mg/kg
zinc powder — zinc dust (stabilised)	Workers	Inhalation	Long-term systemic effects	5 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	83 mg/kg
	Consumers	Inhalation	Long-term systemic effects	2.5 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	83 mg/kg
	Consumers	Ingestion	Long-term systemic effects	0.83 mg/kg

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

Substance name	Environmental Compartment	Value
zinc powder — zinc dust (stabilised)	Fresh water	0.0206 mg/l
	Marine water	0.0061 mg/l
	STP	0.100 mg/l
	Fresh water sediment	235.6 mg/kg
	Marine sediment	121 mg/kg
	Soil	35.6 mg/kg

## 8.2 Exposure controls

### Personal protective equipment

Eye/face protection : Goggles  
Safety glasses

Hand protection  
Material : Leather

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.  
Recommended preventive skin protection The exact break through time can be obtained from the protective glove producer and this has to be observed.  
The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : 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.  
Respirator with a dust filter  
P1 filter

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ProFLAKE Zn 3000 Zinc Powder

Version 3.1      Revision Date: 17.03.2023      SDS Number: 102000002493      Print Date: 15.04.2024  
Date of first issue: 24.01.2014

---

### SECTION 9: Physical and chemical properties

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

Physical state : solid

Colour : grey

Odour : characteristic

Odour Threshold : No data available

Freezing point : No data available

Boiling point/boiling range : No data available

Flammability : Combustible Solids

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : > 200 g/m<sup>3</sup>

Flash point : No data available

Auto-ignition temperature : Not relevant

Decomposition temperature : No data available

pH : substance/mixture is non-soluble (in water)

Viscosity, kinematic : No data available

Solubility(ies)  
Water solubility : insoluble  
Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Vapour pressure : No data available

Relative density : No data available

Density : No data available

Relative vapour density : No data available

Particle Size Distribution :

#### 9.2 Other information

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ProFLAKE Zn 3000 Zinc Powder

Version 3.1      Revision Date: 17.03.2023      SDS Number: 102000002493      Print Date: 15.04.2024  
Date of first issue: 24.01.2014

---

Self-ignition : No data available

Dust deflagration index (Kst) : > 200 - 300 m.b./s

Dust explosion class : St2

Miscibility with water : immiscible

Minimum ignition energy : > 10 mJ

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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 : Reacts with alkalis, acids, halogenes and oxidizing agents.  
Contact with acids and alkalis may release hydrogen.  
Avoid dust clouds, they may form explosible dust-air-mixture.  
Risk of dust explosion.  
No decomposition if stored and applied as directed.

#### 10.4 Conditions to avoid

Conditions to avoid : No data available

#### 10.5 Incompatible materials

Materials to avoid : Acids  
Bases  
Oxidizing agents

#### 10.6 Hazardous decomposition products

This information is not available.

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### SECTION 11: Toxicological information

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

##### Acute toxicity

Not classified based on available information.

##### Components:

##### **zinc powder — zinc dust (stabilised):**

Acute oral toxicity : (Rat): > 2,000 mg/kg

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ProFLAKE Zn 3000 Zinc Powder

Version	Revision Date:	SDS Number:	Print Date: 15.04.2024
3.1	17.03.2023	102000002493	Date of first issue: 24.01.2014

---

Acute inhalation toxicity : LC50 (Rat): 5.41 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.

## 11.2 Information on other hazards

### **Further information**

#### **Product:**

Remarks : No data available

#### **Components:**

##### **zinc powder — zinc dust (stabilised):**

Remarks : No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ProFLAKE Zn 3000 Zinc Powder

Version 3.1      Revision Date: 17.03.2023      SDS Number: 102000002493      Print Date: 15.04.2024  
Date of first issue: 24.01.2014

---

### SECTION 12: Ecological information

#### 12.1 Toxicity

**Components:**

**zinc powder — zinc dust (stabilised):**

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

#### 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 Endocrine disrupting properties

No data available

#### 12.7 Other adverse effects

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

**Components:**

**zinc powder — zinc dust (stabilised):**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

---

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ProFLAKE Zn 3000 Zinc Powder

Version 3.1      Revision Date: 17.03.2023      SDS Number: 102000002493      Print Date: 15.04.2024  
Date of first issue: 24.01.2014

---

### 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 hazardous substances

#### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
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.  
In accordance with local and national regulations.

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR : UN 3077  
IMDG : UN 3077  
IATA : UN 3077

#### 14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Zinc powder, stabilized)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Zinc powder, stabilized)

IATA : Environmentally hazardous substance, solid, n.o.s.  
(Zinc powder, stabilized)

#### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADR	: 9	
IMDG	: 9	
IATA	: 9	

#### 14.4 Packing group

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ProFLAKE Zn 3000 Zinc Powder

Version 3.1      Revision Date: 17.03.2023      SDS Number: 102000002493      Print Date: 15.04.2024  
Date of first issue: 24.01.2014

---

### ADR

Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

### IMDG

Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Remarks : IMDG Code segregation group 7 - Heavy metals and their salts

### IATA (Cargo)

Packing instruction (cargo aircraft) : 956  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : 9

### IATA (Passenger)

Packing instruction (passenger aircraft) : 956  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : 9

## 14.5 Environmental hazards

### ADR

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

## 14.6 Special precautions for user

Remarks : For single packagings <=5L / 5 kg, or combination packagings containing inner packagings <= 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be applied.

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

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ProFLAKE Zn 3000 Zinc Powder

Version	Revision Date:	SDS Number:	Print Date: 15.04.2024
3.1	17.03.2023	102000002493	Date of first issue: 24.01.2014

### SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable

#### 15.2 Chemical safety assessment

No data available

### SECTION 16: Other information

#### Full text of H-Statements

H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - 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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ProFLAKE Zn 3000 Zinc Powder

Version	Revision Date:	SDS Number:	Print Date: 15.04.2024
3.1	17.03.2023	102000002493	Date of first issue: 24.01.2014

---

Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; 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.

GB / EN