1.1 Product identifier

according to Regulation (EC) No. 1907/2006



# ProFLAKE Zn 1400 Zinc Powder

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

Trade name	:	ProFLAKE Zn 1400 Zinc Powder
Product code	:	026141K60
1.2 Relevant identified uses	of the s	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 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

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

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

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

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

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazar	d pictograms	:	¥2	
Signa	l word	:	Warning	
Hazar	d statements	:	H410	Very toxic to aquatic life with long lasting effects.
Preca	utionary statements	:	Prevention: P273 Response: P391 Disposal:	Avoid release to the environment. Collect spillage.
			P501	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

components			
Chemical name	CAS-No.	ClassificationREGUL	Concentration
	EC-No.	ATION (EC) No	(% w/w)
	Index-No.	1272/2008	
	Registration number		
zinc powder — zinc dust	7440-66-6	Aquatic Acute 1;	>= 50 - <= 100
(stabilised)		H400	
	231-175-3	Aquatic Chronic 1;	
	030-001-01-9	H410	
	01-2119467174-37		

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.

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If inhaled		: If unconscious, place in recovery position and seek medic advice. 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. Remove contact lenses. Keep eye wide open while rinsing.			
If swallowed		Never give any	y tract clear. k or alcoholic beverages. thing by mouth to an unconscious person. ersist, 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

### **SECTION 5: Firefighting measures**

5.1	Extinguishing media		
	Suitable extinguishing media	:	Dry sand Special powder against metal fire
	Unsuitable extinguishing media	:	Carbon dioxide (CO2) Water
5.2	Special hazards arising from	the	substance or mixture
	Specific hazards during firefighting	:	Contact with water liberates extremely flammable gas (hydrogen).
			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. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

	e equipment and emergency procedures Use personal protective equipment. Evacuate personnel to safe areas. Avoid dust formation.
<b>6.2 Environmental precautions</b> 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 contai	•

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.

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

### 7.1 Precautions for safe handling

<ul> <li>Advice on safe handling</li> <li>Avoid creating dust.</li> <li>Routine housekeeping should be institudusts do not accumulate on surfaces.</li> <li>For personal protection see section 8.</li> <li>Smoking, eating and drinking should be application area.</li> <li>Dispose of rinse water in accordance waregulations.</li> <li>Advice on protection against fire and explosion</li> <li>Fine dust dispersed in air may ignite. Kand sources of ignition. No smoking. Taken and sources of ignition.</li> </ul>	e prohibited in the vith local and national Keep away from heat
prevent the build up of electrostatic cha containers and apparatuses is essentia equipment. Normal measures for preventive fire pr	arge. Earthing of al. Use explosion-proof
Hygiene measures : General industrial hygiene practice. Do hands before breaks and at the end of from food and drink. Keep away from to Wash hands before breaks and at the end	workday. Keep away obacco products.
Dust explosion class : St2	

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### 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/m3	GB EH40
		TWA (Respirable fraction)	4 mg/m3	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/m3
	Consumers	Ingestion	Long-term systemic effects	2.5 mg/kg
	Consumers	Skin contact	Long-term systemic effects	5 mg/kg
	Consumers	Inhalation	Long-term systemic effects	4.348 mg/m3
zinc powder — zinc dust (stabilised)	Workers	Inhalation	Long-term systemic effects	5 mg/m3
	Workers	Skin contact	Long-term systemic effects	83 mg/kg
	Consumers	Inhalation	Long-term systemic	2.5 mg/m3

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L				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/m3
		Workers	Skin contact	Long-term systemic effects	83 mg/kg
		Consumers	Inhalation	Long-term systemic effects	2.5 mg/m3
		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 equipme Eye/face protection Hand protection Material		Goggles Safety glasses
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

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### **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/m3
Flash point	:	No data available
Auto-ignition temperature	:	Not relevant
Decomposition temperature	:	No data available
рН	:	substance/mixture is non-soluble (in water)
Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility Solubility in other solvents	:	insoluble 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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Self-iç	gnition	:	No data available	9
Dust o	deflagration index (Kst)	:	> 200 - 300 m.b_	_/s
Dust e	explosion class	:	St2	
Miscib	oility with water	:	immiscible	
Minim	um ignition energy	:	> 10 mJ	

### **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.
<b>10.4 Conditions to avoid</b> Conditions to avoid	:	No data available
<b>10.5 Incompatible materials</b> Materials to avoid	:	Acids Bases Oxidizing agents

#### **10.6 Hazardous decomposition products**

This information is not available.

### **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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	Acute i	nhalation toxicity	: LC50 (Rat): 5.41 Exposure time: 4 Test atmosphere	h
		orrosion/irritation ssified based on avail	able information.	
		s eye damage/eye in ssified based on avail		
	Respir	atory or skin sensitis	sation	
	••••••	<b>ensitisation</b> ssified based on avail	able information.	
	-	atory sensitisation ssified based on avail	able information.	
		<b>cell mutagenicity</b> ssified based on avail	able information.	
		<b>ogenicity</b> ssified based on avail	able information.	
	-	<b>luctive toxicity</b> ssified based on avail	able information.	
		- single exposure ssified based on avail	able information.	
		- repeated exposure ssified based on avail	able information.	
	-	<b>tion toxicity</b> ssified based on avail	able information.	
11.2	2 Inform	ation on other hazar	ds	
	Furthe	r information		
	<u>Produc</u> Remark		: No data available	2
	<u>Compo</u>	onents:		
	-	owder — zinc dust (s	•	
	Remark	<s< td=""><td>: No data available</td><td>9</td></s<>	: No data available	9

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SECTION 12: Ecological information								
12.1 Toxic	city							
<u>Com</u>	oonents:							
zinc	oowder — zinc dust (s	tabilised):						
	exicology Assessment	: Very toxic to a	aquatic life.					
Chror	ic aquatic toxicity	: Very toxic to a	aquatic life with long lasting effects.					
	stence and degradabi	lity						
	ccumulative potential ata available							
<b>12.4 Mobi</b> No da	<b>lity in soil</b> ata available							
12.5 Resu	Its of PBT and vPvB a	issessment						
<u>Prodi</u> Asse	u <u>ct:</u> ssment	to be either pe	e/mixture contains no components considered ersistent, bioaccumulative and toxic (PBT), or at and very bioaccumulative (vPvB) at levels of r.					
12.6 Endocrine disrupting properties No data available								
12.7 Othe	r adverse effects							
	u <u>ct:</u> ional ecological nation	unprofessiona	ntal hazard cannot be excluded in the event of al handling or disposal. aquatic life with long lasting effects.					
<u>Com</u>	oonents:							
Addit	<b>oowder — zinc dust (s</b> ional ecological nation	: An environme unprofessiona	ntal hazard cannot be excluded in the event of al handling or disposal. aquatic life with long lasting effects.					

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SECTIO	N 13: Disposal consi	dera	ations		
European Waste Catalogue European Waste Catalogue		:	12 01 04 - non-ferrous metal dust and particles 10 03 21 - other particulates and dust (including ball-mill dust) containing hazardous substances		
13.1 Was	te 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.		

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

14.1 UN number or ID number			
ADR	:	UN 3077	
IMDG	:	UN 3077	
ΙΑΤΑ	:	UN 3077	
14.2 UN proper shipping name			
ADR	:	ENVIRONMENTALLY N.O.S. (Zinc powder, stabilize	HAZARDOUS SUBSTANCE, SOLID,
IMDG	:	ENVIRONMENTALLY N.O.S. (Zinc powder, stabilize	HAZARDOUS SUBSTANCE, SOLID,
ΙΑΤΑ	:	Environmentally hazard (Zinc powder, stabilize	dous substance, solid, n.o.s. d)
14.3 Transport hazard class(es)			
		Class	Subsidiary risks
ADR	:	9	
IMDG	:	9	
ΙΑΤΑ	:	9	
14.4 Packing group			

according to Regulation (EC) No. 1907/2006



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F (   	Classifi Hazard Labels Tunnel <b>IMDG</b>			III M7 90 9 (-) III 9 F-A, S-F IMDG Code segre salts	egation group 7 - Heavy metals and their
F a F F	aircraft Packing	g instruction (cargo	:	956 Y956 III 9	
F ( F	Packing (passei Packing	Passenger) g instruction nger aircraft) g instruction (LQ) g group	:	956 Y956 III 9	
14.5 Environmental hazards					
E	IMDG	nmentally hazardous pollutant	:	yes yes	
14.6		I precautions for use		For single packag	gings <=5L / 5 kg, or combination aining inner packagings <= 5L / 5 kg net per SV375 ADR, 2.10.2.7 IMDG-Code, A197 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.

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### **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,	:	Not applicable
mixtures and articles (Annex XVII)		
Regulation (EC) No 1005/2009 on substances that	:	Not applicable
deplete the ozone layer		
UK REACH List of substances subject to authorisation	:	Not applicable
(Annex XIV)		

15.2 Chemical safety assessment

No data available

#### **SECTION 16: Other information**

Full text of H-Statements		
H400 H410		Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
Full text of other abbreviation	-	
Aquatic Acute	:	Short-term (acute) aquatic hazard

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; AllC - 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 according to Regulation (EC) No. 1907/2006



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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