according to Regulation (EC) No. 1907/2006



ProFLAKE Zn 3000 Zinc Powder

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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	G	CKART GmbH Juentersthal 4 1235 Hartenstein
Telephone	: +4	499152770
Telefax	: +4	499152777008
E-mail address of person responsible for the SDS	: <u>m</u>	sds.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, H400: Very toxic to aquatic life. Category 1

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)

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Haza	rd pictograms	:		
Signa	al word	:	Warning	
Haza	rd statements	:	H410	Very toxic to aquatic life with long lasting effects.
Preca	autionary statements	:	Prevention: P273 Response: P391 Disposal: 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

Componente			
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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lf inha	aled	advice.	ous, place in recovery position and seek medical
	e of skin contact	: Wash off in	s persist, call a physician.
In cas	e of eye contact	Remove co	with water as a precaution. Intact lenses. Vide open while rinsing.
lf swa	llowed	Do not give Never give	ratory tract clear. milk or alcoholic beverages. anything by mouth to an unconscious person. s 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

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

6.1 Personal precautions, protec	tive	e 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 con	tai	nment 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.

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.

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	Dust exp	plosion class	:	Wash hands befo St2	re breaks and at the end of workday.		
7.2 (Conditio	ns for safe storage,	inc	uding any incom	patibilities		
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.			
				place. Electrical in	ghtly closed in a dry and well-ventilated nstallations / working materials must comply gical safety standards.		
		nformation on conditions	:	Protect from hum	idity and water.		
	Further i storage	nformation on stability	:	No decomposition	n 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

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	oowder — zinc (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
	oowder — zinc (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	Fresh water	0.0206 mg/l
(stabilised)		
	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	nt :	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

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Resp	iratory protection	concentration of the suitable bits the suitable bits of the suitable bit	protection according to the amount and of the dangerous substance at the work place. reathing protection if workplace concentration		
		requires. Respirator with a dust filter P1 filter			

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	:	insoluble
	Solubility in other solvents	:	No data available

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	Partition coefficient: n- octanol/water		:	No data available	e
	Vapour pressure		:	No data available	e
	Relative density Density Relative vapour density Particle Size Distribution 9.2 Other information Self-ignition Dust deflagration index (Kst) Dust explosion class Miscibility with water		:	No data available	e
			:	No data available	9
			:	No data available	9
			:		
9.2					
			:	No data available	9
			:	> 200 - 300 m.b_	_/s
			:	St2	
			:	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.
10.4 Conditions to avoid		
Conditions to avoid	:	No data available
10.5 Incompatible materials		
Materials to avoid	:	Acids Bases Oxidizing agents

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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

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.

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11.2 lı	11.2 Information on other hazards						
F	urthe	r information					
	Produc						
R	Remarl	<s< td=""><td>:</td><td>No data available</td><td></td></s<>	:	No data available			
<u>C</u>	Compo	onents:					
z	inc po	owder — zinc dust (st	abi	lised):			
R	Remarl	<s< td=""><td>:</td><td>No data available</td><td></td></s<>	:	No data available			
SECT	TION	12: Ecological infor	ma	tion			
12.1 T	Foxicit	У					
<u>C</u>	Compo	onents:					
z	inc po	owder — zinc dust (st	abi	lised):			
		icology Assessment	:	Very toxic to aqua	atic life.		
С	Chronic	aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.			
		tence and degradabil	ity				
		a available s umulative potential					
		a available					
		y in soil					
		a available		4			
		s of PBT and vPvB as	sse	ssment			
	<u>Produc</u> Assess		:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or d very bioaccumulative (vPvB) at levels of		
		rine disrupting prope a available	rtie	S			
12.7 C	Other a	adverse effects					
A	Produc Addition nforma	nal ecological	:		hazard cannot be excluded in the event of ndling or disposal.		



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			Very toxic to aqu	atic life with long lasting effects.	
<u>Com</u>	ponents:				
zinc	powder — zinc dust (s	tabi	lised):		
	tional ecological mation	:	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.		
SECTIO	N 13: Disposal consi	der	ations		
	pean Waste Catalogue pean Waste Catalogue	:	 12 01 04 - non-ferrous metal dust and particles 10 03 21 - other particulates and dust (including ball-mill containing hazardous substances 		
13.1 Was	te treatment methods				
Prod	uct	:	 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. 		
Conta	aminated 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 HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc powder, stabilized)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc powder, stabilized)
ΙΑΤΑ	:	Environmentally hazardous substance, solid, n.o.s. (Zinc powder, stabilized)

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14.3 T	ransp	port hazard class(es)			
	•	ζ,		Class	Subsidiary risks
Α	DR		:	9	,
IN	MDG		:	9	
IA	ΑΤΑ		:	9	
14.4 P	Packir	ng group			
Δ	DR				
P C H L	Packin Classifi Iazard .abels	g group ication Code I Identification Number restriction code		III M7 90 9 (-)	
P Li E	MDG Packing abels EmS C Remar			III 9 F-A, S-F IMDG Code segr salts	egation group 7 - Heavy metals and their
P ai P P	Packin ircraft Packin	Cargo) g instruction (cargo) g instruction (LQ) g group		956 Y956 III 9	
P (p P P	Packin passe Packin	Passenger) g instruction nger aircraft) g instruction (LQ) g group	: : : :	956 Y956 III 9	
14.5 E	Enviro	onmental hazards			
	DR Inviror	nmentally hazardous	:	yes	
	MDG /larine	pollutant	:	yes	
14.6 S	Specia	al precautions for use	r		
R	Remar	ks	:	packagings conta	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

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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.

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 H410	Very toxic to aquatic life.Very toxic to aquatic life with long lasting effects.
Full toyt of other obbre	

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; AIIC - 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;

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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; 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.

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