

Globally Harmonized System of Classification and Labelling of
Chemicals (GHS)

ProFLAKE Zn 2000 Zinc Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

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

1.1 Product identifier

Trade name : ProFLAKE Zn 2000 Zinc Powder
Material number : 026143K50

Substance No. : Index-No. : 030-001-01-9
EINECS-No. : 231-175-3

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

This information is not available.

1.3 Details of the supplier of the safety data sheet

Company : ECKART GmbH
Guentersthal 4
91235 Hartenstein
Telephone : +499152770
Telefax : +499152777008
E-mail address : msds.eckart@altana.com
Responsible/issuing person

1.4 Emergency telephone number

NCEC:

(contract no.: ECKART29003-NCEC)

+44 1235 239671 (Middle East/Africa, call and response in your language)

+1 215 207 0061 (Americas, call and response in your language)

+65 3158 1074 (Asia-Pacific, call and response in your language)

ProFLAKE Zn 2000 Zinc Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

SECTION 2: Hazards identification**GHS Classification**

: Short-term (acute) aquatic hazard, Category 1, H400
Long-term (chronic) aquatic hazard, Category 1, H410

GHS-Labeling

Symbol(s)

:



Signal word

: Warning

Hazard statements

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

Precautionary statements

: **Prevention:**
P273 Avoid release to the environment.
Response:
P391 Collect spillage.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label**Other hazards which do not result in classification**

Combustible Solids

SECTION 3: Composition/information on ingredients

Substance No.

: Index-No.

: 030-001-01-9

EINECS-No.

: 231-175-3

ProFLAKE Zn 2000 Zinc Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

Hazardous components


Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
zinc	7440-66-6 231-175-3	Aquatic Acute;1;H400 Aquatic Chronic;1;H410	50 - 100
Fatty acids, C16-18	67701-03-5 266-928-5	Acute Tox.;5;H313	1 - 10

For the full text of the H-Statements mentioned in this Section, 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.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Keep eye wide open while rinsing.
- 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

Page 3 / 17	102000002493	A member of  ALTANA
-------------	--------------	---

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

ProFLAKE Zn 2000 Zinc Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

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.

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.

ProFLAKE Zn 2000 Zinc Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

Avoid dust formation.

6.2 Environmental precautions

General advice : 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.

This information is not available.

6.3 Methods and materials 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.

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

ProFLAKE Zn 2000 Zinc Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

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

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.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Germany:

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
zinc	7440-66-6	AGW (Inhalable fraction)	10 mg/m3	2021-07-02	DE TRGS 900

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

ProFLAKE Zn 2000 Zinc Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

Peak-limit: excursion factor (category)	2;(II)				
Further information	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
zinc	7440-66-6	AGW (Alveolate fraction)	1,25 mg/m ³	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)				
Further information	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				

United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
zinc	7440-66-6	TWA (total dust)	50 Million particles per cubic foot	2012-07-01	
zinc	7440-66-6	TWA (total dust)	15 mg/m ³	2012-07-01	
zinc	7440-66-6	TWA (respirable fraction)	5 mg/m ³	2012-07-01	
zinc	7440-66-6	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01	
zinc	7440-66-6	PEL (Total dust)	10 mg/m ³	2014-11-26	
zinc	7440-66-6	PEL (respirable dust fraction)	5 mg/m ³	2014-11-26	

8.2 Exposure controls

Personal protective equipment

Eye protection : Goggles
: Safety glasses

Hand protection

Material : Leather
Remarks : Leather gloves

The choice of an appropriate glove does not only depend on

ProFLAKE Zn 2000 Zinc Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

- 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.
- Skin and body protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- : 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

Environmental exposure controls

- General advice : 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.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

- Appearance : solid
- Colour : grey
- Odour : characteristic
- pH : substance/mixture is non-soluble (in water)
- Melting point/range : > 400 °C
- Boiling point/boiling range : No data available
- Flash point : No data available

ProFLAKE Zn 2000 Zinc Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

Bulk density	: No data available
Flammability (solid, gas)	: Combustible Solids
Auto-flammability	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: > 200 g/m ³
Vapour pressure	: No data available
Density	: 6,5 - 7,5 g/cm ³
Solubility(ies)	
Water solubility	: insoluble
Miscibility with water	: immiscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available

9.2 Other information

Self-Accelerating decomposition temperature (SADT)	: No data available
Self-heating substances	: No data available
Heat of combustion	: No data available
Impact sensitivity	: No data available
Surface tension	: No data available

Globally Harmonized System of Classification and Labelling of
Chemicals (GHS)

ProFLAKE Zn 2000 Zinc Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

Conductivity : No data available
Sublimation point : No data available
Molecular weight : No data available

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

Other information : No data available

Globally Harmonized System of Classification and Labelling of
Chemicals (GHS)

ProFLAKE Zn 2000 Zinc Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

Fatty acids, C16-18 :

Acute oral toxicity : LD50 Rat: > 5 000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 Rabbit: > 2 000 mg/kg

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Carcinogenicity

No data available

Toxicity to reproduction/fertility

No data available

Globally Harmonized System of Classification and Labelling of
Chemicals (GHS)

ProFLAKE Zn 2000 Zinc Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

Reprod.Tox./Development/Teratogenicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information**Product**

No data available

SECTION 12: Ecological information**12.1 Toxicity****Components:****zinc (7440-66-6) :**

M-Factor : 1

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

ProFLAKE Zn 2000 Zinc Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

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

No data available

12.6 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.

SECTION 13: Disposal considerations**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.

Globally Harmonized System of Classification and Labelling of
Chemicals (GHS)

ProFLAKE Zn 2000 Zinc Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

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****ADR** : 3077**TDG**

Not dangerous goods

CFR

Not dangerous goods

IMDG : 3077**IATA** : 3077**14.2 Proper shipping name**

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

TDG

Not dangerous goods

CFR

Not dangerous goods

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

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

ProFLAKE Zn 2000 Zinc Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

14.3 Transport hazard class**ADR** : 9**TDG**

Not dangerous goods

CFR

Not dangerous goods

IMDG : 9**IATA** : 9**14.4 Packing group****ADR**

Packaging group : III

Classification Code : M7

Hazard Identification Number : 90

Labels : 9

Tunnel restriction code : (-)

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG

Packaging group : III

Labels : 9

EmS Code : F-A, S-F

IATAPacking instruction (cargo
aircraft) : 956

Packing instruction : 956

ProFLAKE Zn 2000 Zinc Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

(passenger aircraft)

Packing instruction (LQ) : Y956

Packaging group : III

Labels : 9

14.5 Environmental hazards**IMDG** : Marine pollutant**ADR** : Environmentally hazardous**14.6 Special precautions for user****IMDG Code- segregation group:**

: IMDG Code segregation group 7 - Heavy metals and their salts

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.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

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

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

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

ProFLAKE Zn 2000 Zinc Powder

Version 3.0

Revision Date 09.01.2025

Print Date 14.01.2025

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

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

H313 : May be harmful in contact with skin.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.

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.