

**ProFLAKE Zn 1400 Zinc Powder**

Version	Revision Date:	SDS Number:	Date of last issue: 03/20/2023
1.4	05/23/2023	102000002493	Date of first issue: 03/21/2018

---

**SECTION 1. IDENTIFICATION**

Product name : ProFLAKE Zn 1400 Zinc Powder  
Product code : 026141K60

**Manufacturer or supplier's details**

Company name of supplier : ECKART America Corporation  
Address : 830 East Erie Street  
Painesville OH 44077  
Telephone : 866-458-7837  
(440) 954-7600  
Telefax : (440) 354-6224  
e-mail adresse : info.eckart.america.oh@altana.com  
Emergency telephone : **CHEMTREC:** 800-424-9300  
**CHEMTREC:** 1-703-527-3387 (International)

**NCEC:**

(contract no. ECKART29003-NCEC)  
US: +1 866 928 0789 (Toll free)  
Canada: +1 800 579 7421 (Toll Free)  
Mexico: +52 55 5004 8763

---

**SECTION 2. HAZARDS IDENTIFICATION**

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Combustible dust

**GHS label elements**

Signal Word : Warning  
Hazard Statements : May form combustible dust concentrations in air.

**Other hazards**

None known.

---

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
Zinc	7440-66-6	>= 90 - <= 100

Actual concentration is withheld as a trade secret

**ProFLAKE Zn 1400 Zinc Powder**

Version	Revision Date:	SDS Number:	Date of last issue: 03/20/2023
1.4	05/23/2023	102000002493	Date of first issue: 03/21/2018

---

---

**SECTION 4. FIRST AID MEASURES**

General advice	:	Take the victim into 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.
Most important symptoms and effects, both acute and delayed	:	None known.

---

**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	:	Dry sand Special powder against metal fire
Unsuitable extinguishing media	:	Carbon dioxide (CO2) Water
Specific hazards during fire fighting	:	Contact with water liberates extremely flammable gas (hydrogen).  Do not allow run-off from fire fighting to enter drains or water courses.
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.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

---

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Evacuate personnel to safe areas. Avoid dust formation.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

---

**ProFLAKE Zn 1400 Zinc Powder**

Version	Revision Date:	SDS Number:	Date of last issue: 03/20/2023
1.4	05/23/2023	102000002493	Date of first issue: 03/21/2018

---

If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for : Do not flush with water.  
containment and cleaning up

Use mechanical handling equipment.

Keep in suitable, closed containers for disposal.

---

**SECTION 7. HANDLING AND STORAGE**

Advice on protection against : Fine dust dispersed in air may ignite.  
fire and explosion 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.

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.

Conditions for safe storage : 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.

Technical : Protect from humidity and water.  
measures/Precautions

Further information on : No decomposition if stored and applied as directed.  
storage stability

---

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ingredients with workplace control parameters**

---

## ProFLAKE Zn 1400 Zinc Powder

Version 1.4      Revision Date: 05/23/2023      SDS Number: 102000002493      Date of last issue: 03/20/2023  
 Date of first issue: 03/21/2018

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Zinc	7440-66-6	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-3
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-3
		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3

**Personal protective equipment**

Respiratory protection : Use suitable breathing protection if workplace concentration requires.  
 Respirator with a dust filter  
 P1 filter

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.

Eye protection : Goggles  
 Safety glasses

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.

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.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**ProFLAKE Zn 1400 Zinc Powder**

Version	Revision Date:	SDS Number:	Date of last issue: 03/20/2023
1.4	05/23/2023	102000002493	Date of first issue: 03/21/2018

---

Appearance	: solid
Color	: gray
Odor	: characteristic
Odor Threshold	: No data available
pH	: substance/mixture is non-soluble (in water)
Melting point/freezing point	: > 400 °C

Initial boiling point and boiling range	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: Combustible Solids

combustible dust

Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: > 200 g/m <sup>3</sup>
Vapor pressure	: No data available
Relative density	: No data available
Density	: 6.5 - 7.5 g/cm <sup>3</sup>

Solubility(ies)	
Water solubility	: insoluble
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Dust deflagration index (Kst)	: > 200 - 300 m.b./s

Dust explosion class	: St2
Minimum ignition energy	: > 10 mJ

---

**SECTION 10. STABILITY AND REACTIVITY**

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

---

**ProFLAKE Zn 1400 Zinc Powder**

Version	Revision Date:	SDS Number:	Date of last issue: 03/20/2023
1.4	05/23/2023	102000002493	Date of first issue: 03/21/2018

---

Conditions to avoid	:	No data available
Incompatible materials	:	Acids
		Bases
		Oxidizing agents

---

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified based on available information.

**Components:****Zinc:**

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 sensitization****Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**IARC**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen

**ProFLAKE Zn 1400 Zinc Powder**

Version	Revision Date:	SDS Number:	Date of last issue: 03/20/2023
1.4	05/23/2023	102000002493	Date of first issue: 03/21/2018

---

by NTP.

**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.

**Further information****Components:****Zinc:**

Remarks: No data available

---

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****Zinc:****Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

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

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Other adverse effects**

No data available

**Components:****Zinc:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**ProFLAKE Zn 1400 Zinc Powder**

Version	Revision Date:	SDS Number:	Date of last issue: 03/20/2023
1.4	05/23/2023	102000002493	Date of first issue: 03/21/2018

---

Very toxic to aquatic life with long lasting effects.

---

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues	:	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****Domestic regulation****49 CFR**

Not regulated as a dangerous good

**International Regulations****IATA-DGR**

UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (Zinc powder, stabilized)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passenger aircraft)	:	956

**IMDG-Code**

UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc powder, stabilized)
Class	:	9
Packing group	:	III
Labels	:	9
Marine pollutant	:	yes
Remarks	:	IMDG Code segregation group 7 - Heavy metals and their

---



**ProFLAKE Zn 1400 Zinc Powder**

Version	Revision Date:	SDS Number:	Date of last issue: 03/20/2023
1.4	05/23/2023	102000002493	Date of first issue: 03/21/2018

salts

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.

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

Not applicable for product as supplied.

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know****CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)
Zinc	7440-66-6	1000

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Combustible dust**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

Zinc	7440-66-6	>= 90 - <= 100 %
------	-----------	------------------

**Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

**ProFLAKE Zn 1400 Zinc Powder**

Version	Revision Date:	SDS Number:	Date of last issue: 03/20/2023
1.4	05/23/2023	102000002493	Date of first issue: 03/21/2018

---

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

Zinc	7440-66-6	98.4 %
------	-----------	--------

This product contains the following priority pollutants related to the U.S. Clean Water Act:

Zinc	7440-66-6	98.4 %
------	-----------	--------

**US State Regulations****Massachusetts Right To Know**

Zinc	7440-66-6
------	-----------

**Pennsylvania Right To Know**

Zinc	7440-66-6
------	-----------

**California Prop. 65**

WARNING: This product can expose you to chemicals including lead and cadmium, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**California List of Hazardous Substances**

Zinc	7440-66-6
------	-----------

**California Permissible Exposure Limits for Chemical Contaminants**

Zinc	7440-66-6
------	-----------

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

DSL	: All components of this product are on the Canadian DSL
TSCA	: All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

---

**SECTION 16. OTHER INFORMATION****Full text of other abbreviations**

---

**ProFLAKE Zn 1400 Zinc Powder**

Version	Revision Date:	SDS Number:	Date of last issue: 03/20/2023
1.4	05/23/2023	102000002493	Date of first issue: 03/21/2018

---

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3  
Mineral Dusts

OSHA Z-3 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 05/23/2023

The information provided in this Material 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.

# SAFETY DATA SHEET



## ProFLAKE Zn 1400 Zinc Powder

Version	Revision Date:	SDS Number:	Date of last issue: 03/20/2023
1.4	05/23/2023	102000002493	Date of first issue: 03/21/2018

---

US / Z8