

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

ProFLAKE Zn Hydro PM 3090

Version 3.0

Revision Date 21.07.2025

Print Date 22.07.2025

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

1.1 Product identifier

Trade name : ProFLAKE Zn Hydro PM 3090
Material number : 027538G60

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
Guntersthal 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)

SECTION 2: Hazards identification

GHS Classification

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

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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.

:

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	70 - 90

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1-methoxypropan-2-ol	107-98-2 203-539-1	Flam. Liq.;3;H226 STOT SE;3;H336	1 - 10
Fatty acids, C16-18	67701-03-5 266-928-5	Acute Tox.;5;H313	1 - 10
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	95-38-5 202-414-9	Acute Tox.;4;H302 ;1C;H314 STOT RE;2;H373 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	0,25 - 1

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.
Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- 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 : Immediately flush eye(s) with plenty of water.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
Remove contact lenses.
Flush eyes with water as a precaution.

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If swallowed

- Remove contact lenses.
- Keep eye wide open while rinsing.
- If eye irritation persists, consult a specialist.
- : 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

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

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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 : Evacuate personnel to safe areas.
Ensure adequate ventilation.
Avoid dust formation.

6.2 Environmental precautions

General advice : Do not flush into surface water.
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 : Use mechanical handling equipment.
Pick up and transfer to properly labelled containers.
Do not flush with water.
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
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**

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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 : Keep away from heat and sources of ignition. No smoking.

Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures : Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Earthing of containers and apparatuses is essential. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. 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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Protect from humidity and water.

Advice on common storage : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Do not store together with oxidizing and self-igniting products.

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

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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/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			
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			
1-methoxypropan-2-ol	107-98-2	STEL	150 ppm 568 mg/m ³	2000-06-16	2000/39/EC
Further information		Identifies the possibility of significant uptake through the skin Indicative			
1-methoxypropan-2-ol	107-98-2	TWA	100 ppm 375 mg/m ³	2000-06-16	2000/39/EC
Further information		Identifies the possibility of significant uptake through the skin Indicative			

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1-methoxypropan-2-ol	107-98-2	AGW	100 ppm 370 mg/m ³	2010-08-04	DE TRGS 900
Peak-limit: excursion factor (category)		2;(l)			
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).European Union (The EU has established a limit value: deviations in value and peak limit are possible)When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
1-methoxypropan-2-ol	107-98-2	MAK	100 ppm 370 mg/m ³	2023-07-01	DE DFG MAK
Peak-limit: excursion factor (category)		2; I			
Further information		Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed			

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	
1-methoxypropan-2-ol	107-98-2	TWA	50 ppm	2014-03-01	
1-methoxypropan-2-ol	107-98-2	STEL	100 ppm	2014-03-01	

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an-2-ol					
1-methoxyprop an-2-ol	107-98-2	ST	150 ppm 540 mg/m ³	2013-10-08	
1-methoxyprop an-2-ol	107-98-2	TWA	100 ppm 360 mg/m ³	2013-10-08	
1-methoxyprop an-2-ol	107-98-2	TWA	100 ppm 360 mg/m ³	1989-01-19	
1-methoxyprop an-2-ol	107-98-2	STEL	150 ppm 540 mg/m ³	1989-01-19	
1-methoxyprop an-2-ol	107-98-2	PEL	100 ppm 360 mg/m ³	2014-11-26	
1-methoxyprop an-2-ol	107-98-2	STEL	150 ppm 540 mg/m ³	2014-11-26	

8.2 Exposure controls

Personal protective equipment

- Eye protection : Tightly fitting safety goggles
- Hand protection
- Material : Solvent-resistant gloves (butyl-rubber)
- Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
 The exact break through time can be obtained from the protective glove producer and this has to be observed.
 Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the

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- danger of cuts, abrasion, and the contact time.
 Recommended preventive skin protection
 Skin should be washed after contact.
 The suitability for a specific workplace should be discussed
 with the producers of the protective gloves.
- Skin and body protection : The suitability for a specific workplace should be discussed
 with the producers of the protective gloves.
 : 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.
 In the case of dust or aerosol formation use respirator with an
 approved filter.

Environmental exposure controls

- General advice : Do not flush into surface water.
 : 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 : Pasty solid
 Colour : grey
 Odour : characteristic
 pH : substance/mixture is non-soluble (in water)
 Melting point/ range : Not applicable
 Boiling point/boiling range : 117 - 125 °C
 Flash point : 30 °C

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Method: ASTM D 93

Bulk density	:	No data available
Flammability (solid, gas)	:	Combustible Solids
Auto-flammability	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	No data available
Density	:	ca. 4,3 g/cm ³
Solubility(ies)		
Water solubility	:	insoluble
Miscibility with water	:	partly miscible
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

No data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

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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 : Contact with acids and alkalis may release hydrogen.

No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : Do not allow evaporation to dryness.
No data available

10.5 Incompatible materials

Materials to avoid : Acids
Bases
Oxidizing agents

10.6 Hazardous decomposition products

Other information : No data available

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

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

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol :

Acute oral toxicity : The component/mixture is moderately toxic after single
ingestion.

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

Reprod.Tox./Development/Teratogenicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

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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.

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5) :

M-Factor : 10

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.

12.2 Persistence and degradability

No data available

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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.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

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

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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) : 956Packing instruction
(passenger aircraft) : 956

Packing instruction (LQ) : Y956

Packaging group : III

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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 - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Banned and/or restricted (1-methoxy-2-propanol) (2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol)
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Banned and/or restricted (1-methoxy-2-propanol)
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: (2-methoxypropanol)
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable

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Regulation (EC) on substances that deplete the ozone layer : Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable
Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

15.2 Chemical safety assessment

No data available

SECTION 16: Other information**Full text of H-Statements**

H226 : Flammable liquid and vapour.
H302 : Harmful if swallowed.
H313 : May be harmful in contact with skin.
H314 : Causes severe skin burns and eye damage.
H336 : May cause drowsiness or dizziness.
H373 : May cause damage to organs through prolonged or repeated exposure.
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.

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