



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

ZINC OXIDE GOLD SEAL PHEur

Version 3.0

Date of printing 04/13/2019

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

1.1. Product identifier

Trade name	: ZINC OXIDE GOLD SEAL PHEur
Substance name Index	: Zinc oxide : 030-013-00-7
No. CAS	: 1314-13-2
No. EC No	: 215-222-5

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

Use of the substance or mixture : At this time we do not yet have information on an identified use. These will be included in the safety data sheet as soon as possible.

Unrecommended uses : We haven't found any unadvised uses at this time.

1.3. Details of the supplier of the safety data sheet

Business	Ekokoza sro Fryšovice 297
Telephone	739 45 Fryšovice
Fax	605779993
E-mail adress	obchod@ekokoza.cz
Responsible/issuing person	

1.4. Telephone number for emergencies

Telephone number for emergencies	: Toxicology Information Center On the battlefield 1 128 21 Prague tel. 00420-224 919 293
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

REGULATION (EC) No. 1272/2008



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By hazard class	Hazard categories	Target organs	Standard hazard statements
Acute aquatic toxicity	Category 1	-	H400
Chronic aquatic toxicity	Category 1	-	H410

For the full text of the H-statements given in this section, see section 16.

Classification according to EU directives 67/548/EEC or 1999/45/EC

Directive 67/548/EEC or 1999/45/EC	
Hazard Symbol/Hazard Category	R-phrases
Dangerous for the environment (N)	R50/53

The full wording of the R phrases mentioned in this section is given in section 16.

Most serious adverse effects

Human health	: See section 11 for toxicological information
Physical and chemical hazards	: See section 9 for physicochemical information
Possible effects on the environment	: See section 12 Ecological information

2.2. Marking elements

Marking according to Regulation (EC) No. 1272/2008

Danger symbols



With a signal word : Warning

Standard hazard statements : H410 Highly toxic to aquatic organisms, with long-term effects.

Instructions for safe handling

Prevention :P273 Avoid release to the environment.

Measures : P391 Collect the spilled product.

Removal : P501 Dispose of the contents/packaging by handing over to an approved waste disposal facility.



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Hazardous components that must be listed on the label:

- Zinc oxide

2.3. Another danger

Results of PBT and vPvB assessment see point 12.5.

SECTION 3: Composition/information on ingredients

3.1. Substances

Dangerous components		Contents [%]	Classification (REGULATION (EC) No. 1272/2008)		Classification (67/548/EHS)
			By class hazards / Hazard categories	Standard sentences about danger	
Zinc oxide					
Index No.	: 030-013-00-7	≤ 100	Aquatic Acute1	H400	Dangerous for the environment; N; R50-R53
CAS No.	: 1314-13-2		Aquatic Chronic1	H410	
EC	: 215-222-5				
No. C&L No	: 02-2119752899-15-0000				

The full wording of the R phrases mentioned in this section is given in section 16.

For the full text of the H-statements given in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid

When inhaled	: In case of inhalation accident, move victim to fresh air and keep him at rest. Consult a doctor.
In contact with skin	: Put away contaminated clothing and wash before re-use. Wash with soap and water.
In contact with eyes	: Rinse thoroughly with plenty of water, including under the eyelids. Consult a doctor.
When ingested	: Rinse mouth and drink plenty of water. Seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	: See section 11 for more information on symptoms and health effects
Effects	: See section 11 for more information on symptoms and health effects

4.3. Indication of any immediate medical attention and special treatment needed



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Treatment : No information available.

SECTION 5: Firefighting measures

5.1. Hasiva

Suitable extinguishing agents : The product as such does not burn. Measures in case of fire should correspond to the surrounding conditions.

Unsuitable fire extinguishers : No information available.

5.2. Special hazards arising from the substance or mixture

Specific firefighting hazards : Not known.

5.3. Instructions for firefighters

Special protective equipment for firefighters : In case of insufficient ventilation, use suitable equipment for respiratory protection.

More information : Fire residues and contaminated water used for extinguishing must be disposed of according to local regulations.

SECTION 6: Accidental release measures

6.1. Personal protection measures, protective equipment and emergency procedures

Personal protection measures : It is necessary to exclude the formation of dust. Personal protection see section 8.

6.2. Environmental protection measures

Environmental protection measures : If the product has contaminated a river or lake or entered a sewer, notify the appropriate authorities.

6.3. Methods and material for containment and cleaning up

Methods and material for containment and cleaning up : Pick up mechanically. Store in a suitable closed container. Do not allow to enter surface water or drains.

6.4. Link to other sections

See Section 1 for emergency contact information. See Section 8 for information on protective equipment and information on waste handling

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Instructions for safe handling : Follow the safety regulations for handling chemicals. Avoid contact with skin and eyes. It is necessary to exclude the formation of dust. Sufficient air exchange and/or exhaust ventilation must be ensured in the working areas.



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Hygiene measures : Put away contaminated clothing and wash before re-use. Wash your hands before a work break and after finishing work. Smoking, eating and drinking should be prohibited in the area of use.

7.2. Conditions for safe storage of substances and mixtures, including incompatible substances and mixtures

Requirements for storage areas and containers : Store in original packaging. Containers must be tightly closed and stored in a dry, cool and well-ventilated place.

Instructions for protection against fire and explosion : This product is not flammable.

Instructions for normal storage : Do not store together with acids. Keep away from food and drink.

German storage class: 10-13 German storage classes 10 to 13

7.3. Specific end / specific end uses

Specific (specific) uses : No information available.

SECTION 8: Exposure controls / personal protective equipment

8.1. Control parameters

Ingredient: Zinc oxide	No. TIME 1314-13-2
Other Exposure limit values	

CZ OEL, highest permissible concentration, Zn
5 mg/m³

CZ OEL, Permissible exposure limits, Zn
2 mg/m³

8.2. Limiting exposure

Personal protective equipment

Respiratory protection

Recommendation : In case of insufficient ventilation, use suitable equipment for respiratory protection.

Recommended filter type: P

Hand protection

Recommendation : Wear suitable protective clothing.
Rubber gloves



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Leather gloves

The material of the gloves must be impermeable and resistant to the product/substance/preparation

Selection of glove material with regard to penetration time, degree of diffusion and decomposition.

The choice of suitable gloves does not only depend on the material, but also on other qualitative features and on their products

The exact penetration time of the substance through the protective gloves must be determined by their manufacturer and must be observed.

Eye protection

Recommendation : Protection glasses

Skin and body protection

Recommendation : Wear suitable protective clothing.

Limiting environmental exposure

General instructions : If the product has contaminated a river or lake or entered a sewer, notify the appropriate authorities.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	: powder granulate
Color	: White do yellow
The smell	: odorless
Odor threshold value	: data not given
pH	: 7 - 8 (100 g/l; 20 °C)
Melting point/range	: approx. 1,970 °C
Bod varu	: does not apply
Point of ignition	: does not apply
Evaporation rate	: data not given
Flammability (solids, gases)	: data not given
Upper explosive limit	: does not apply



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Lower explosive limit	: data not given
Steam pressure	: data not given
Relative vapor density	: data not given
Density	: 5.607 g/cm ³
Solubility in water	: insoluble substance
Partition coefficient: n-octanol/water	: data not given
Auto-ignition temperature	: does not apply
Thermal decomposition	: data not given
Dynamic viscosity	: data not given
Explosiveness	: data not given
Oxidizing properties	: data not given

9.2. More information

Bulk density	: 300 - 2000 kg/m ³
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SECTION 10: Stability and reactivity

10.1. Reactive

Recommendation	: Stable under recommended storage conditions.
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10.2. Chemical stability

Recommendation	: Stable under normal conditions.
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10.3. Possibility of hazardous reactions

Hazardous reactions	: No dangerous reactions are known when used under normal conditions conditions.
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10.4. Conditions to avoid

Conditions to avoid	: does not apply
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10.5. Incompatible materials

Materials to avoid	: Acids and bases
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10.6. Hazardous decomposition products



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Hazardous decomposition products : No information available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Ingredient: Zinc oxide		No. TIME 1314-13-2
Acute toxicity		
Orally		
LD50	: > 5000 mg/kg (krysa)	
Inhalation		
LC50	: > 5.7 mg/l (rat; 4 h)	
Irritability		
Skin		
Result	: Slight skin irritation (rabbit)	
Eyes		
Result	: Mild eye irritation (rabbit)	
Sensitization		
Result	: non-sensitizing (guinea pig)	
Volunteers did not experience sensitization during the patch test.		

SECTION 12: Ecological information

12.1. Toxicity

Ingredient: Zinc oxide		No. TIME 1314-13-2
Acute toxicity		
Fish		
LC50	: 1,31 mg/l (Oncorhynchus mykiss; 96 h)	



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Data based on test results or data from a comparable product.

Toxicity to daphnia and other aquatic invertebrates

EC50 : 0.12 mg/l (Daphnia magna; 48 h) Data
based on test results or data from a comparable product.

water flower

EC50 : 0.21 mg/l (Pseudokirchneriella subcapitata (Alga); 72 h)

NOEC : 0.04 mg/l (Pseudokirchneriella subcapitata (Alga))

12.2. Persistence and degradability

Ingredient: Zinc oxide

No. TIME
1314-13-2

Persistence and degradability

Biodegradability

Result : Biodegradability determination methods are not applicable
for inorganic substances.

12.3. Bioaccumulative potential

Bioaccumulation

Result : Does not accumulate in biological tissues.

12.4. Mobility in soil

Mobility

Result : Because the product is practically insoluble in water, it can be separated
by filtration or sedimentation.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

Result : data not given



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12.6. Other adverse effects

Additional ecological information

Result : Highly toxic to aquatic organisms, with long-term effects.
Do not allow to enter surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste management methods

Product : Dispose of as special waste in compliance with local and national regulations.

Contaminated packaging : Dispose of as unused product. Dispose of in accordance with local regulations.

Number from the European waste catalog : Waste codes should be assigned by the user based on the product application used.

SECTION 14: Transport information

14.1. UN number

3077

14.2. UN proper shipping name

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

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S
(Zinc Oxide)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(zinc oxide)

14.3. Transport hazard class(es).

ADR-Class : 9
(Warning labels; Classification code; Hazard identification number; Tunnel passage restriction code) 9; M7; 90; (HAVE BEEN)

RID-Class : 9
(Warning labels; Classification code; Hazard identification number) 9; M7; 90

IMDG-Class : 9
(Warning labels; EmS) 9; FA, SF



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14.4. Packaging group

ADR : III
 RID : III
 IMDG : III

14.5. Danger to the environment

Marking according to 5.2.1.8 ADR : The fish and the tree
 Marking according to 5.2.1.8 RID : The fish and the tree
 Marking according to 5.2.1.6.3 IMDG : The fish and the tree
 Classification as dangerous for the environment : again
 according to 2.9.3 IMDG

14.6. Special safety measures for users

not applicable

14.7. Bulk transport according to Annex II of MARPOL 73/78 and the IBC regulation

IMDG : not applicable

SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations/specific legislation relating to a substance or mixture

Other regulations : The final classification of waste is carried out by its originator according to the characteristics of the waste at the time of its generation according to the Decree of the Ministry of the Environment as amended.; The product is labeled according to EU directives or applicable national regulations. All mentioned laws should be considered with regard to later changes in the valid wording. 350/2011 LAW of 27 October 2011 on chemical substances and chemical mixtures and on the amendment of certain laws (Chemical Act) with effect from 1 January 2012
 Directive (EC) No. 1272/2008 on the classification, labeling and packaging of substances and mixtures, on the amendment and repeal of Directives 67/548/EEC and 1999/45/EC and on the amendment of Regulation (EC) No. 1907/2006, as amended .
 1) Council Directive 67/548/EEC on the approximation of legal and of administrative regulations concerning the classification, packaging and labeling of dangerous substances, as amended.
 Directive 1999/45/EC of the European Parliament and of the Council on the approximation of the legal and administrative regulations of the Member States relating to the classification, packaging and labeling of dangerous preparations, as amended.
 Directive 2004/9/EC of the European Parliament and of the Council of 11 February 2004 on the inspection and verification of good laboratory practice.
 Directive 2004/10/EC of the European Parliament and of the Council of 11 February 2004 on the harmonization of laws and regulations concerning the application of principles of good laboratory practice and the verification of their application in the testing of chemical substances.
 2) Regulation of the European Parliament and the Council (EC) No. 1907/2006 of December 18, 2006 on registration, evaluation, authorization and



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restriction of chemical substances, on the establishment of the European Agency for Chemical Substances, on the amendment of Directive 1999/45/EC and on the repeal of Council Regulation (EEC) No. 793/93, Commission Regulation (EC) No. 1488/94, Council Directive 76/796/ EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended.

Regulation of the European Parliament and of the Council (EC) No. 689/2008 of 17 June 2008 on the export and import of hazardous chemical substances.

Regulation of the European Parliament and of the Council (EC) No. 648/2004 of March 31, 2004 on detergents, as amended.

Regulation of the European Parliament and Council (EC) No. 850/2004 of April 29, 2004 on persistent organic pollutants and amending Directive 79/117/EEC, as amended.

Regulation of the European Parliament and of the Council (EC) No. 1272/2008 of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, on the amendment and repeal of Directives 67/548/EEC and 1999/45/EC and on the amendment of the Regulation (EC) No. 1907/2006, as amended. Regulation (EC) No. 1102/2008 of the European Parliament and of the Council of 22 October 2008 on the ban on the export of metallic mercury and certain compounds and mixtures of mercury and on the safe storage of metallic mercury. Commission Regulation (EC) No. 440/2008 of 30 May 2008 laying down test methods pursuant to Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemical Substances, as amended .

Commission Regulation (EC) No. 340/2008 of 16 April 2008 on fees and payments to the European Chemicals Agency pursuant to Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

3) Art. 2 paragraph 7 of the Regulation of the European Parliament and the Council (EC) no. 1272/2008 of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, on the amendment and repeal of Directives 67/548/EEC and 1999/45/EC and on the amendment of Regulation (EC) No. 1907/2006, as amended .

4) Art. 2 paragraph 8 of the Regulation of the European Parliament and the Council (EC) no. 1272/2008 of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, on the amendment and repeal of Directives 67/548/EEC and 1999/45/EC and on the amendment of Regulation (EC) No. 1907/2006, as amended .

5) Act No. 326/2004 Coll., on phytosanitary care and amendment of some related laws, as amended.

Regulation of the European Parliament and the Council (EC) No. 1107/2009 of 21 October 2009 on the placing of plant protection products on the market and the repeal of Council Directives 79/117/EEC and 91/414/EEC.

6) Act No. 120/2002 Coll., on the conditions for listing biocides preparations and active substances on the market and on the amendment of some related laws, as amended.

7) Art. 61 of the Regulation of the European Parliament and the Council (EC) no. 1272/2008 of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, on the amendment and repeal of Directives 67/548/EEC and 1999/45/EC and on the amendment of Regulation (EC) No. 1907/2006, as amended .

8) Act No. 123/2000 Coll., on medical devices and



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amending some related laws, as amended.

9) Table 3.2. part 3 of Annex VI of the European Regulation of the Parliament and of the Council (EC) No. 1272/2008 of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, on the amendment and repeal of Directives 67/548/EEC and 1999/45/EC and

on the amendment of Regulation (EC) No 1907/2006, as amended.

10) Commission Regulation (EC) No. 440/2008 of 30 May 2008, establishing the test methods according to Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the registration, evaluation, authorization and restriction of chemical substances, as amended.

11) Act No. 22/1997 Coll., on technical requirements for products and on the amendment and addition of certain laws, as amended.

Government Regulation No. 194/2001 Coll., establishing technical requirements for aerosol sprayers, as amended.

12) Act No. 634/1992 Coll., on consumer protection, as amended later regulations.

13) Act No. 266/1994 Coll., on railways, as amended regulations. Convention on International Carriage (COTIF), promulgated under No. 8/1985 Coll., as amended.

14) For example, Act No. 111/1994 Coll., on road transport, in as amended, the European Agreement on the International Carriage of Dangerous Goods by Road (ADR), promulgated under no. 64/1987 Coll., as amended.

15) Act No. 114/1995 Coll., on inland navigation, as amended later regulations.

16) Decree No. 17/1966 Coll., on air transport regulations, in wording of Decree No. 15/1971 Coll.

17) Act No. 61/2000 Coll., on maritime navigation.

18) Government Regulation No. 361/2007 Coll., establishing health protection conditions at work, as amended by Government Regulation no. 68/2010 Sb.

19) Art. 31 of the Regulation of the European Parliament and the Council (EC) no. 1907/2006 of 18 December 2006 on the registration, evaluation, authorization and restriction of chemical substances, on the establishment of the European Chemicals Agency, on the amendment of Directive 1999/45/EC and on the repeal of Council Regulation (EEC) No. 793/93, Regulation Commission (EC) No. 1488/94, Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended.

20) Regulation of the European Parliament and the Council (EC) no. 1907/2006 of 18 December 2006 on the registration, evaluation, authorization and restriction of chemical substances, on the establishment of the European Chemicals Agency, on the amendment of Directive 1999/45/EC and on the repeal of Council Regulation (EEC) No. 793/93, Regulation Commission (EC) No. 1488/94, Council Directive 76/796/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended.

21) Regulation of the European Parliament and the Council (EC) no. 1272/2008 of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, on the amendment and repeal of Directives 67/548/EEC and 1999/45/EC and on the amendment of Regulation (EC) No. 1907/2006, as amended .



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22) Annex II of the OECD Council decision on mutual recognition of data for the evaluation of chemical substances [C(81)30 in the final version] of 12 May 1981, as amended by the decision of the OECD Council [C(97)186 in the final version] of 26 November 1997. Annexes I and II of the decision - OECD Council Recommendation on Compliance with Principles of Good Laboratory Practice [C(89)87 final] of 2 October 1989, as amended by OECD Council Decision [C(95)8 final] of 9 March 1995.

23) Art. 45 of the Regulation of the European Parliament and the Council (EC) no. 1272/2008 of 16 December 2008 on the classification of labeling and packaging of substances and mixtures, on the amendment and repeal of Directives 67/548/EEC and 1999/45/EC and on the amendment of Regulation (EC) No. 1907/2006, as amended.

24) Art. 9 paragraph 3 and Annex VII of the Regulation of the European Parliament and Council (EC) No. 648/2004 of March 31, 2004 on detergents, as amended.

25) Regulation of the European Parliament and the Council (EC) No. 850/2004 of April 29, 2004 on persistent organic pollutants and amending Directive 79/117/EEC, as amended.

26) Regulation of the European Parliament and the Council (EC) No. 689/2008 of June 17, 2008 on the export and import of dangerous chemical substances.

27) Regulation of the European Parliament and the Council (EC) no. 1102/2008 of 22 October 2008 on the ban on the export of metallic mercury and certain mercury compounds and mixtures and on the safe storage of metallic mercury.

The final classification of waste is carried out by its originator according to the characteristics of the waste at the time of its generation in accordance with the Decree of the Ministry of the Environment as amended.

|| COS IV

: Zinc oxide: <*** Phrase language not available: [CS]
CUST - ARI024000000177 **> Uveden

15.2. Chemical safety assessment

dates not given

SECTION 16: Further information

Full text of the R-phrases listed in sections 2 and 3.

R50	Highly toxic to aquatic organisms.
R50/53	Highly toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.

Full text of the H-statements given in sections 2 and 3.

H400	Highly toxic to aquatic organisms.
H410	Highly toxic to aquatic organisms, with long-term effects.



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More information

Important literature
references and data sources

: Supplier information and data from the European "Database of Registered
Substances" were used to create this safety data sheet
Agency for Chemical Substances (ECHA).

More information

: The information given in this safety data sheet is to the best of our knowledge
at the time of the review. The information only describes the product with
regard to handling safety, it is not a quality specification, it does not establish
the law. The information contained in this safety data sheet applies only to
this material and may not be valid for this material used in combination
with another material or in another process not described in the text.

|| The section has been redesigned.