

# CLASSIFICATION AND LABELLING

## 1. Classification and labelling according to CLP / GHS

### Name: zinc oxide standard

Implementation: EU

State/form of the substance: powder

### Classification and labelling according to CLP / GHS for physicochemical properties

Not classified for physicochemical properties

### Classification and labelling according to CLP / GHS for health hazards

Not classified for health hazards

### Classification and labelling according to CLP / GHS for environmental hazards

Endpoint	Hazard category	Hazard statement
Hazards to the aquatic environment (acute/short-term):	Aquatic Acute 1	H400: Very toxic to aquatic life.
Hazards to the aquatic environment (long-term):	Aquatic Chronic 1	H410: Very toxic to aquatic life with long lasting effects.
M-Factor acute: 1		
M-Factor chronic: 1		

### Labelling

Signal word: Warning

### Hazard pictogram:

GHS09: environment



### Hazard statements:

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

### Precautionary statements:

P273: Avoid release to the environment.

P391: Collect spillage.

P501: Dispose of contents/container to...

### Name: zinc oxide lower grade (lead containing)

Implementation: EU

State/form of the substance: powder

## Classification and labelling according to CLP / GHS for physicochemical properties

Not classified for physicochemical properties

## Classification and labelling according to CLP / GHS for health hazards

Endpoint	Hazard category	Hazard statement
Acute toxicity - oral:	Acute Tox. 4	H302: Harmful if swallowed.
Acute toxicity - inhalation:	Acute Tox. 4	H332: Harmful if inhaled.
Reproductive Toxicity:	Repr. 1A	H360: May damage fertility or the unborn child <state specific effect if known > <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
Specific target organ toxicity - repeated:	STOT Rep. Exp. 2 Affected organs: central nervous system, reproductive system Route of exposure: Oral	H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

## Classification and labelling according to CLP / GHS for environmental hazards

Endpoint	Hazard category	Hazard statement
Hazards to the aquatic environment (acute/short-term):	Aquatic Acute 1	H400: Very toxic to aquatic life.
Hazards to the aquatic environment (long-term):	Aquatic Chronic 1	H410: Very toxic to aquatic life with long lasting effects.
M-Factor acute: 1		
M-Factor chronic: 1		

## Labelling

Signal word: Danger

### Hazard pictogram:

GHS07: exclamation mark



GHS08: health hazard



GHS09: environment



Hazard statements:

H360: May damage fertility or the unborn child.

H302+H332: Harmful if swallowed or if inhaled.

H373: May cause damage to central nervous system, reproductive system through prolonged or repeated oral.

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

Precautionary statements:

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P273: Avoid release to the environment.

P391: Collect spillage.

P501: Dispose of contents/container to...

**Name: Zinc oxide nano**

Implementation: EU

State/form of the substance: nanomaterial

**Classification and labelling according to CLP / GHS for physicochemical properties**

Not classified for physicochemical properties

**Classification and labelling according to CLP / GHS for health hazards**

Not classified for health hazards

**Classification and labelling according to CLP / GHS for environmental hazards**

Endpoint	Hazard category	Hazard statement
Hazards to the aquatic environment (acute/short-term):	Aquatic Acute 1	H400: Very toxic to aquatic life.
Hazards to the aquatic environment (long-term):	Aquatic Chronic 1	H410: Very toxic to aquatic life with long lasting effects.
M-Factor acute: 1		
M-Factor chronic: 1		

**Labelling**

Signal word: Warning

Hazard pictogram:

GHS09: environment



Hazard statements:

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

Precautionary statements:

P273: Avoid release to the environment.

P391: Collect spillage.

P501: Dispose of contents/container to...

## 2. Classification and labelling according to DSD / DPD

### 2.1. Classification and labelling in Annex I of Directive 67/548/EEC

**Chemical name: zinc oxide standard**

**Classification and labelling in Annex I of Directive 67/548/EEC for physicochemical properties**

Not classified for physicochemical properties

**Classification and labelling in Annex I of Directive 67/548/EEC for health hazards**

Not classified for health properties

**Classification and labelling in Annex I of Directive 67/548/EEC for the environment**

Endpoint	Classification
Environment:	N; R50/53 Dangerous for the environment; Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Labelling**

Indication of danger:

N - dangerous for the environment

R-phrases:

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrases:

S60 - this material and its container must be disposed of as hazardous waste

S61 - avoid release to the environment. refer to special instructions/safety data sheets

**Chemical name: zinc oxide nano**

**Classification and labelling in Annex I of Directive 67/548/EEC for physicochemical properties**

Not classified for physicochemical properties

**Classification and labelling in Annex I of Directive 67/548/EEC for health hazards**

Not classified for health hazards

**Classification and labelling in Annex I of Directive 67/548/EEC for the environment**

Endpoint	Classification
Environment:	N; R50/53 Dangerous for the environment; Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## Labelling

### Indication of danger:

N - dangerous for the environment

### R-phrases:

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

### S-phrases:

S61 - avoid release to the environment. refer to special instructions/safety data sheets

S60 - this material and its container must be disposed of as hazardous waste

## 3.2.2. Self classification(s)

### Chemical name: zinc oxide lower grade (lead containing)

#### Self classification according to Directive 67/548/EEC criteria

Endpoints	Classification
Acute toxicity	Xn; R20/22 Harmful by inhalation and if swallowed.
Repeated dose toxicity	R33 Danger of cumulative effects.
Toxicity to reproduction-development	Repr. Cat. 1; R61 May cause harm to the unborn child.
Environment	N; R50/53 Dangerous for the environment; Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## Labelling

### Indication of danger:

T - toxic

N - dangerous for the environment

### R-phrases:

R61 - May cause harm to the unborn child

R20/22 - Harmful by inhalation and if swallowed

R33 - Danger of cumulative effects

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

### S-phrases:

S53 - avoid exposure - obtain special instructions before use

S20/21 - when using do not eat, drink or smoke

S36/37/39 - wear suitable protective clothing, gloves and eye/face protection

S45 - in case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

S60 - this material and its container must be disposed of as hazardous waste

S61 - avoid release to the environment. Refer to special instructions/safety data sheets