

Safety Data sheet

According to Directive 1907/2006

3048 ZINC OXIDE gmp

Creation Date: 11/07/2014 Revision date: 31/05/2017

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No: 3048 Product name: ZINC OXIDE gmp Use of the substance: Analysis and chemical-pharmaceutical production
REACH registration Nr.: 01-2119463881-32-0000

Company/undertaking identification

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2. Hazards identification

Labelling in accordance with directive 1907/2006



R-phrases

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases

60 This material and its container must be disposed of as hazardous waste.

61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

Labelling in accordance with directive 1272/2008



H-phrases

400 Very toxic to aquatic life.

410 Very toxic to aquatic life with long lasting effects.

P-phrases

273 Avoid release to the environment.

391 Collect spillage.

Signal word : WARNING

DANGEROUS FOR ENVIRONMENT

R-phrases:

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

3. Composition/information on ingredients

For the full text of the R phrases mentioned in this section, see Section 16.

CAS-No.: 1314-13-2

Molecular Weight: 81,38

Chemical formula: ZnO

EC-No.: 215-222-5

R-phrases 50/53

For more information about the R-Phrases text you can consult the paragraph 16

4. First aid measures

After inhalation:

Fresh air

After skin contact:

Rinse with abundant water (or have a shower)

Get rid of the contaminated clothes

After eye contact:

Rinse with abundant water, keeping eyelids open (at least 10 min)

After swallowing:

Drink lots of water

Call the doctor

5. Fire-fighting measures

Suitable extinguishing media:

Adapt the materials of the surroundings

Special risks:

Fireproof

Ambient fire may liberate hazardous vapours

Special protective equipment for fire fighting:

Remain in the risk area only if provided with independent artificial respiratory systems.

Other information:

Avoid the penetration of the extinction water in superficial or subterranean aquifers.

6. Accidental release measures

Person-related precautionary measures:

Do not inhale dust

Procedures for cleaning/absorption:

Dry cleaning. Proceed to the elimination of any waste.

Rinse.

To avoid the inert dust formation

Environmental protection measures:

Do not send it to the sewerage system

7. Handling and storage

Handling: Without other exigencies

Storage:

Well closed

Dry place.

Storage temperature: without limits

8. Exposure controls/personal protection

Exposure limit control

TLV-ED: 10 mg/m³

Personal protective equipment:

Respiratory protection:

Necessary respiratory protection in the presence of dust

Hand protection:

Protection gloves:

Nitrile rubber

Eye protection:

Needed

Other protective equipment:

Change immediately contaminated clothes

Wash hands when work is finished

Neither to eat, nor to drink, nor to smoke during the work

Fulfill the commitments under local environmental protection legislation

9. Physical and chemical properties

Physical state: Solid

Colour: White

Odour: Odourless

pH value: 7 (50 g/l H₂O) (slurry)

Melting point: 1970°C

Explosion limits: TLV-ED: 10 mg/m³

Solubility: 0,0016 g/l in water (29°C)

10. Stability and reactivity

Substances to be avoided:

Hydrogen peroxide.

Magnesium.

Aluminium.

Hazardous decomposition products:

Not available.

Further information:

Not available.

11. Toxicological information

Acute toxicity:

LDLo (oral, human): 500 mg/kg. LD50 (oral, rat): > 5000 mg/kg.

After eye contact:

Slight irritation

Redness

Pain

After skin contact:

Slight irritation symptoms

After inhalation:

Metal-fume fever after inhalation of large quantities

Nausea

Vomiting

After long contact:

Asthma

After swallowing:

Adstringent effect on mucous membranes

Diarrhoea

Vomiting

Nausea

Abdominal pain

Further toxicological information:

The precautions adapted for chemical agents must be observed

12. Ecological information

Degradability: Inorganic substance

Other harmful effects:

Does not cause biological oxygen deficit

Do not allow to enter waters, waste water, or soil

Highly toxic for aquatic organisms

May cause long-term adverse effects in the aquatic environment

13. Disposal considerations

Product:

Dispose as regulated in the community countries by local regulations.

Please contact with the suitable authority in each case (Public Administration or company specialized in

Packaging:

Product packaging disposal must be disposed of in compliance with the respective local regulations.

For contaminated packaging the same measures must be adopted as for the contaminated product.

Not contaminated packaging must be disposed of as domestic residues or recycled material.

European Directive 94/62/EC of 20 December 1994 on packaging and packaging waste

14. Transport information

Overland transport ADR/RID

UN: 3077

Class: 9

Packaging group: III
Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Sea transport IMDG

UN: 3077
Class: 9/III
Packaging group: III
Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Air transport ICAO-IATA-DGR

UN: 3077
Class: 9
Packaging group: III
Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
CAO: 956
PAX: 956

15.Regulatory information

16.Other information

Full text of R phrases mentioned in sections 2 and 3
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
The information contained herein is based on the present state of our knowledge.
It characterizes the product with regard to appropriate safety precautions. It does not represent
a guaranty of the properties of the product.