1786 **Zinc Oxide**

1. Identification of the substance/preparation and of the company or firm

1.1 Identification of the substance or preparation

Name:
Zinc Oxide

Synonym:

REACH Registration Number: 01-2119463881-32-XXXX

1.2 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.
C/Garraf 2
Polígono Pla de la Bruguera
E-08211 Castellar del Vallès
(Barcelona) Spain
Tel. (+34) 937 489 400
e-mail: product.safety@panreac.com

1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)
Tel.: (+34) 937 489 499

2. Identification of dangers

Classification of the substance or the mixture.

Classification Regulation (CE) nº 1272/2008.

Aquatic Acute 1
Aquatic Chronic 1

Hazard Pictograms

Signal word
Warning

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 according to Directive 94/62/CE or 2008/98/CE.

Classification (67/548/CEE or 1999/45/CE).

N Dangerous for the environment R50/53

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

3. Component Composition/Information

Name: Zinc Oxide
Formula: ZnO M.= 81,39 CAS [1314-13-2]
EC number (EINECS): 215-222-5
REACH Registration Number: 01-2119463881-32-XXXX

4. First aid

4.1 General indications:
Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Inhaling:
Go out into the fresh air. In the event sickness persists, seek medical assistance.

4.3 Contact with the skin:
Wash with plenty of water. Remove contaminated clothing.

4.4 Eyes:
Wash with plenty of water, keeping eyelids open.

4.5 Swallowing:
Through swallowing of large amounts: In the event of sickness, seek medical assistance.

5. Fire-fighting means

5.1 Suitable fire-extinguishing means:
As appropriate to the environment.

5.2 Fire-fighting means which must NOT be used:
No specific data.

5.3 Special risks:
Incombustible.

5.4 Protective equipment:
Suitable clothing and footwear.

6. Measures to be taken in the event of accidental spillage

6.1 Individual precautions:
No special indications.

6.2 Precautions for care of the environment:
Avoid pollution of the soil, water supplies and drains.

6.3 Methods for collection/cleaning:
Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

7. Handling and storage

7.1 Handling:
No special indications.

7.2 Storage:
Well sealed containers.Dry atmosphere.Room temperature.

8. Staff exposure/protection controls

8.1 Technical protective measures:
No special indications.

8.2 Exposure limit control:
VLA-ED: 10 mg/m3

8.3 Respiratory protection:
If dust forms, use suitable respiratory protection. Filter P.

8.4 Hand protection:
Use suitable gloves

8.5 Eye protection:
Use suitable goggles.

8.6 Individual hygiene measures:
Remove contaminated clothing. Wash hands before breaks and when the job is done.

8.7 Environmental exposure controls:
Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

Appearance: solid
Colour: White to yellowish
Granulometry: N/A
Odour: Odourless.
pH: 7 ((50 g/l))
Melting point/freezing point: 1.970 °C

Initial boiling point and boiling range:
N/A
Flash point:
N/A
Flammability (solid, gas):
N/A
Upper/lower flammability or explosive limits:
N/A
Vapour pressure: N/A
Vapour density: N/A
Relative density:
N/A
Solubility: in Insoluble in water
Partition coefficient: n-octanol/water:
N/A
Auto-ignition temperature:
N/A
Decomposition temperature: N/A
Viscosity: N/A

10. Stability and reactivity

10.1 Conditions which should be avoided:
The product is chemically stable under standar ambient conditions (room temperature).

10.2 Matter which should be avoided:
Hydrogen peroxide. Magnesium. Water.

10.3 Hazardous decomposition products:
No specific data.

10.4 Complementary information:
No specific data.

11. Toxicological information

11.1 Acute toxicity:
LD L0 oral hmn : 500 mg/kg
LD50 oral mus : 7.950 mg/kg
LC50 inh mus : 2500 mg/m3

11.2 Dangerous effects for health:
The data we have are insufficient for correct toxicological assessment. Based on the physico-chemical properties, the likely dangerous characteristics are: If swallowed in large quantities: Irritations to the mucosae gastro-intestinal disorders If fumes inhaled: fever Take the usual precautions for handling chemical products.

12. Environmental information

12.1 Toxicity:
12.1.1 - EC50 test (mg/l):
12.1.2. - Receptor medium:
Risk for the water environment L(E)C50 0,01- 0.1 mg/l
Classification: Extr. toxic
Risk for the land environment
12.1.3. - Observations:
Following reaction, toxic effect on water organisms.

12.2 Persistence and Degradability :
12.2.1 - Test:
BOD5
12.2.2. - Biotic degradation classification:
BOD5/COD
Biodegradability
12.2.3. - Abiotic degradation depending on pH:
12.2.4. - Observations:
Non-biodegradable product.

12.3 Bioaccumulative potential:
12.3.1. - Test:
12.3.2. - Bioaccumulation:
Risk
12.3.3. - Observations:

12.4 Mobility in soil :
Data not available.

12.5 Assessment PBT and MPMB :
Data not available.

12.6 Other possible effects on the environment:
Environmental risks cannot be excluded if used and/or disposed of inappropriately.

13. Considerations regarding elimination

13.1 Substance or preparation:
In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.
In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.
2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes.Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.
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13.2 Contaminated containers:
Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.
European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.
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14. Information concerning transport

Overland (ADR):
Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN 3077 Class: 9 CONTAM. MAR PELIG.M.AMB Packaging group: III (E)
By sea (IMDG):
Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN 3077 Class: 9 CONTAM. MAR PELIG.M.AMB Packaging group: III
By air (ICAI-IATA):
Technical name: Environmentally hazardous substance, solid, n.o.s
UN 3077 Class: 9 CONTAM. MAR PELIG.M.AMB Packaging group: III
Packaging instructions: CAO 956 PAX 956

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. Other information

Other precautionary statements

Labelling (65/548/CEE or 1999/45/CE)

R-phrase(s):	**R50/53** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s):	**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.

Review number and date: 4 15.09.2011
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In respect of the previous review, changes have been made to the following sections: 15
The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.