



## Safety Data Sheet

According to Regulation (EC) 1907/2006



2730 Nickel Oxide black

# Identification of the substance/preparation and of the company or firm

## 1.1 Identification of the substance or preparation

Name:

Nickel Oxide black

**Synonym:**

Niquel Sesquioxide

**REACH Registration Number:** A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

## 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](mailto:product.safety@panreac.com)

#### 1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

## Identification of dangers

Classification of the substance or the mixture.

#### Classification Regulation (CE) n° 1272/2008.

Carc. 1A

Skin Sens. 1

STOT RE 1

Aquatic Chronic 4

#### Hazard Pictograms



#### Signal word

Danger

#### Hazard statements

H350i May cause cancer by inhalation.

H317 May cause an allergic skin reaction.

H372 Causes 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>.

H413 May cause long lasting harmful effects to aquatic life.

#### Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash...thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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

R53

RE48/23

T Toxic

R43

R49

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

# Component Composition/Information

Name: Nickel Oxide black

CAS [1313-99-1]

EC number (EINECS): 215-215-7

EC index number: 028-003-00-2

## First aid

### 4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

### 4.2 Inhaling:

Take the person out into the fresh air. In the event of suffocation, proceed immediately to provide artificial respiration. Seek immediate 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:

Drink large amounts of water. Induce vomiting. Seek medical assistance.

## 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.

## Measures to be taken in the event of accidental spillage

**6.1 Individual precautions:**

Do not inhale the dust.

**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.

## Handling and storage

**7.1 Handling:**

No special indications.

**7.2 Storage:**

Well sealed containers. In well ventilated premises. Restricted access, only authorized to technicians.

## Staff exposure/protection controls

**8.1 Technical protective measures:**

No special indications.

**8.2 Exposure limit control:**

VLA-ED: 1 mg/m<sup>3</sup>

**8.3 Respiratory protection:**

If dust forms, use suitable respiratory protection. Filter P3.

**8.4 Hand protection:**

Use suitable gloves

**8.5 Eye protection:**

Use suitable goggles.

**8.6 Individual hygiene measures:**

Remove contaminated clothing. Use suitable work clothing. Wash hands and face before breaks and when the job is done. Avoid the formation of dust. Do not eat, drink or smoke in the workplace.

**8.7 Environmental exposure controls:**

Fulfill the commitments under local environmental protection legislation.

## Physical and chemical properties

Appearance: solid

Colour: black

Granulometry: N/A
Odour: Odourless.
pH: N/A
Melting point/freezing point: ~1.960 °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

## 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:

Fluorine. Sulphides. Hydrogen peroxide.

### 10.3 Hazardous decomposition products:

No specific data.

### 10.4 Complementary information:

Risk of explosion of dust.

## Toxicological information

- **Acute toxicity:**

LD L0 oral rat : 5.000 mg/kg

- **Dangerous effects for health:**

For nickel compounds generally: Inorganic nickel compounds can have an astringent action on the mucosae. Can cause sensitization allergic reaction Can cause dermatitis Contrasted experiments lead to assume an inverse relation between the hydrosolubility of the nickel compound and its carcinogenic effect: increased hydrosolubility represents a decreased carcinogenic effect. Carcinogenic in animal testing. Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## **Environmental information**

## 12.1 Toxicity:

12.1.1 - EC50 test (mg/l):

Bacteria (*Ps. putida*) 0,0025 mg/l

Classification:

Extr. toxic

Algae (*Sc. quadricauda*) 1,3 mg/l

Classification:

Extr. toxic

Algae (*M. aeruginosa*) 0,005 mg/l

Classification:

Extr. toxic

Protozoa (*E. sulcatum*)

Classification: Extr. toxic

Protozoa (*U. parduczi*). 0,042 mg/l

Classification:

Extr. toxic

Crustaceans (*Daphnia magna*)

Classification: Extr. toxic

Fish (*Leuciscus Idus*) 570 mg/l

Classification:

Highly toxic

Fish (*P. promelas*)

Classification: Extr. toxic

12.1.2. - Receptor medium:

Risk for the water environment

High

Risk for the land environment High

12.1.3. - Observations:

The ecotoxicity is due to the ion Ni.

## 12.2 Persistence and Degradability :

12.2.1 - Test:

12.2.2. - Biotic degradation classification:

BOD5/COD

Biodegradability

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

## 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:**

Water-pollutant product.

Do not allow it to enter soils or water channels.

DATA BASED on the components of the preparation.

(Soluble copper compounds)

## 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.

**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.

## Information concerning transport

Not classified as dangerous in the meaning of transport regulations.

## Regulatory information

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



# Other information

## Other precautionary statements

P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P281 Use personal protective equipment as required.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P314 Get medical advice/attention if you feel unwell.  
P321 Specific treatment (see on this label).  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

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

R-phrase(s):	<b>R53</b> May cause long-term adverse effects in the aquatic environment. <b>RE48/23</b> Also toxic: danger of serious damage to health by prolonged exposure through inhalation. <b>R43</b> May cause sensitisation by skin contact. <b>R49</b> May cause cancer by inhalation.
S-phrase(s):	<b>S61</b> Avoid release to the environment. Refer to special instructions/safety data sheets. <b>S45</b> In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). <b>S53</b> Avoid exposure - obtain special instructions before use.

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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.