



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : N 11017
Product Name : **NICKEL OXIDE 78-79%**

Manufacturer / supplier identification

Company : NICE CHEMICALS PVT.LTD. , Cochin , India
Tel - 0484 2800212 , 2802755

Contact for Information : Tel . No. – 0484 2802536 Fax : 0484 2802483
Emergency Telephone No. : 0484 2801583 Tele fax No. : 0484 2802483

2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS-No : 1313-99-1 EC –No. 215-215-7
Molar mass : 74.71 g/mol
Molecular formula : NiO

3. HAZARDS IDENTIFICATION

May cause cancer by inhalation. May cause sensitization by skin contact. May cause long-term adverse effects in the aquatic environment.

Restricted to professional users. Attention –

Avoid exposure – obtain special instructions before use.

4. FIRST AID MEASURES

After inhalation : Fresh air. Summon doctor.

After skin contact : wash off with plenty of water. Remove contaminated clothing.

After eye contact : Rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Summon eye specialist.

After swallowing : Make victim drink plenty of water, induce vomiting. Immediately summon doctor. Clean skin of vomit.



SAFETY DATA SHEET

Catalogue No. : N 11017
Product Name : NICKEL OXIDE 78-79%

5. FIRE – FIGHTING MEASURES

Suitable extinguishing media : In adaption to materials stored in the immediate neighbourhood.

Special risks: Non-combustible.

Special protective equipment for fire fighting : Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Other information : Prevent fire-fighting water from entering surface water or ground water.

6. ACCIDENTAL RELEASE MEASURES

Person related precautionary measures : Avoid generation of dusts; do not inhale dusts. Avoid substance contact. Ensure supply of fresh air in enclosed rooms.

Procedures for cleaning/absorption : Take up dry. Forward for disposal. Clean up affected area.

Avoid generation of dusts.

Environmental-protection measures : Do not allow to enter sewerage system.

7. HANDLING AND STORAGE

Handling : work under hood. Do not inhale substance.

Storage : Tightly closed. In a well-ventilated place. Storage temperature : No restrictions.

Accessible only for authorised persons.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Specific control parameter :

EC Name : Nickel monoxide, Carcinogenic : C1: known to be carcinogenic to man

Sensitization : Danger of sensitization of the skin.



SAFETY DATA SHEET

Catalogue No. : N 11017
Product Name : NICKEL OXIDE 78-79%

Personal protective equipment :

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection : required when dust are generated.

Eye protection : required

Hand protection : required

Industrial hygiene : Immediately change contaminated clothing. Apply skin-protective barrier cream. Wash hands and face after working with substance. Under no circumstances eat or drink at work place. Rinse away remainder with water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	solid
Colour	:	Grey to black
Odour	:	odourless
PH value at 50 g/l H ₂ O (20 ⁰ C):	:	Not available
Melting temperature	:	1990 ⁰ C
Boiling temperature	:	Not available
Ignition temperature	:	Not available
Flash point	:	Not available
Explosion limits	Lower :	Not available
	Upper :	Not available
Density (20 ⁰ C)	:	4.6 - 6.67 g/ cm ³
Bulk density	:	~ 600 Kg/m ³
Solubility in water(20 ⁰ C)	:	Insoluble
	acids :	slightly soluble
Bioconcentration factor	:	3.1 (calculated)

Catalogue No. : N 11017
Product Name : NICKEL OXIDE 78-79%

10. STABILITY AND REACTIVITY

Conditions to be avoided : No information available.
Substance to be avoided : Fluorine, Hydrogen sulphide, Hydrogen peroxide.
Hazardous decomposition products : No information available.

11. TOXICOLOGICAL INFORMATION

Acute toxicity : LD₅₀ (oral, rat) : 5000 mg/kg.
Subacute to chronic toxicity : Experience has shown this substance to be carcinogenic in man.
Bacterial mutagenicity : Bacillus subtilis : Negativ.
Salmonella typhimurium : Negative. Escherichia coli : Negative.

Further toxicological information :
After inhalation : Irritations of the mucous membranes, coughing and dyspnoea.
After skin contact : Risk of sensitization.
After swallowing of large amounts : Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

The following applies to practically insoluble nickel compounds in general : inorganic nickel has an adstringent effect on mucous membranes. In some cases nickel dermatitis may manifest itself. Experience has shown nickel and nickel compounds that are practically insoluble in water to be carcinogenic.

Further data : The substance should be handled with particular care.

12. ECOLOGICAL INFORMATION

Biologic degradation : not determined (Inorganic substance)
Behavior in environmental compartments : BCF : 3.1 (calculated)
Slightly Bioaccumulative : (BCF < 30)



SAFETY DATA SHEET

Catalogue No. : N 11017
Product Name : NICKEL OXIDE 78-79%

Ecotoxic effects : Biological effects : Toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Fish toxicity : P.promelas LC₅₀ : 4.9 mg/l/96h (in soft water)

L.macrochirus LC₅₀ : 5.3 mg/l/96h (in soft water)

Algal toxicity : Selenastrum capricornutum IC₅₀ : 0.9925 mg/l/6d.

Further ecological data : Hazard for drinking water supplies. Do not allow to enter waters, waste water or soil.

13. DISPOSAL METHOD

Product

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC Member countries through that you corresponding laws and regulations. We recommend contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Packaging

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. TRANSPORT INFORMATION : No subject to transport regulations.

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : T Toxic



SAFETY DATA SHEET

Catalogue No. : N 11017
Product Name : NICKEL OXIDE 78-79%

R-phrases : 49-43-53 May cause cancer by inhalation. May cause sensitisation by skin contact. May cause long-term adverse effects in the aquatic environment.

S-phrases : 53-45-61 Avoid exposure – obtain special instructions before use. In case of accident or if you feel unwell. Seek medical advice immediately (show the label, where possible). Avoid release to the environment. Refer to special instructions/safety data sheets.

EC No. : 215-215-7 EC label.

16. OTHER INFORMATION

Reason for alteration : Change in the chapter on ecology .
General update.

*The information contained here in is based on the present state of our knowledge.
It characterizes the product with regard to the appropriate safety precautions.
It does not represent a guarantee of the properties of the product.*
