



Serving Scientific Community
Since 1985



TECHNO PHARMCHEM

An ISO 9001 : 2008 Certified Company

Registered Off. : 101-A, Deep Enclave, Pocket 'D', Ashok Vihar, Phase-III, Delhi-110 052 (India)
Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)
Works : Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, Haryana (India)
Telephone : 0091 - 11 - 23646422 E-mail : tecpharm@gmail.com
Website : www.technopharmchem.com

NICKEL OXIDE EXTRA PURE MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product form : Substance
CAS No. : 1313-99-1
Product code : 38337
Chemical structure : NiO

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/professional use spec : Industrial
For professional use only :
Use of the substance/mixture : Laboratory Reagent

1.2.2. Uses advised against

No additional information available

1.3. Details of the manufacturer of the safety data sheet

Techno Pharmchem
Plot No.1022, Modern Industrial Estate,
Bahadurgarh-124507, India
T +91 11 23646422
info@technopharmchem.com

1.4. Emergency telephone number

Emergency number : +91 11 23646422 (9:30am – 5.30pm)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to regulation (EC) No. 1272/2008[CLP]

Sensitisation – skin, H317
Category 1
Carcinogenicity H350i
(inhalation) Category 1A
Specific target organ H372
Toxicity – repeated
exposure, Category 1
Hazardous to the aquatic H413
environment – chronic
hazard, Category 4

Full text of hazard classes and H- statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC

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Carc.Cat.1; R49

T: R48/23

R43

R53

Full text of R-phrases: see section16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP)	:	Danger
Hazard statements (CLP)	:	H317 – May cause an allergic skin reaction H350i – May cause cancer by inhalation H372 - Cause damage to organs through prolonged or repeated exposure H413 – May cause long lasting harmful effects to aquatic life
Precautionary statements (CLP)	:	P201 – Obtain special instructions before use P280 – Wear protective gloves/protective clothing/eye Protection/face protection P308+P313 – If exposed or concerned: Get medical advice/attention

2.3. Other hazards

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Name	:	NICKEL OXIDE EXTRA PURE
CAS-No.	:	1313-99-1

Full text of R- and H- statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

First – aid measures after skin contact	:	Wash with plenty soap and water. If skin irritation or rash occurs: get medical advice/attention. Wash contaminated clothing before reuse.
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4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : May cause an allergic skin reaction.
Symptoms/injuries after inhalation : May cause cancer by inhalation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIRFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : Dry chemical powder, alcohol – resistant foam, carbon dioxide (CO₂)
Unsuitable extinguishing media : Do not use a heavy water steam.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipments.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

May cause long lasting harmful effects to aquatic life.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clean up immediately by sweeping or vacuum.

6.4. Reference to other sections

No additional information available

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling : Avoid breathing dust fume/gas/mist/ vapours/spray. Do not breathe dust/fume/gas/mist/vapour/spray.

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Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
Do not eat, drink or smoke when using this product.
Wash with water thoroughly after handling.

7.2. Conditions for safe storage, including any compatibilities

Storage conditions : Store in original container. Keep container tightly closed.
Store in a dry place.

7.3. Specific end use (S)

No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : Protective gloves
Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : Wear respiratory protection.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state : Solid
Color : Greyish black powder.
Odor : odorless
Odor threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting Point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20°C : No data available
Relative density : No data available
Density : 4.84 g/cm³
Solubility : Water: Insoluble in water
Log pow : No data available
Viscosity, kinematic : No data available

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Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	No data available

9.2. Other information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No additional information available

10.2. Chemical Stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity	:	Not classified
Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation	:	Not classified
Respiratory or skin sensitization	:	May cause an allergic skin reaction.
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	May cause cancer by inhalation.
Reproductive toxicity	:	Not classified
Specific target organ toxicity (single exposure)	:	Not classified
Specific target organ toxicity (repeated exposure)	:	Cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	:	Not classified

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology – water : May cause long lasting harmful effects to aquatic life.

12.2. Persistence and degradability

Persistence and degradability : May cause long – term adverse effects in the environment.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT AND vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product/package disposal recommendations : Disposal of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: TRANSPORT INFORMATION

14.1. UN Number

ADR/RID: - IMDG: - IATA:-

14.2. UN proper shipping name

ADR/RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.3. Transport hazard class (es)

ADR/RID: - IMDG: - IATA: -

14.4. Packaging group

ADR/RID: - IMDG: - IATA: -

14.5. Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6. Special precautions for user

No data available

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SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: OTHER INFORMATION

Full text of H-statements referred to under sections 2 and 3.

H317	May cause an allergic skin reaction.
H372	Cause damage to organs through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.

Further information

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