

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: 04860 Issue date: 5/21/2024 Revision date: 5/21/2024 Supersedes version of: 4/9/2015 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form Trade name EC Index-No. EC-No. CAS-No. Product code Type of product Formula Chemical structure

:	Substance
:	NICKEL POWDER EXTRA PURE
:	028-002-00-7
:	231-111-4
:	7440-02-0
:	04860
:	Metallic powders
:	Ni
:	
	NI

1 / 1

Synonyms

: Nickel metal powder

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

1.2.1. Relevant identified uses

Use of the substance/mixture

: Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA T +91 22 6663 6663, F +91 22 6663 6699 info@lobachemie.com, www.lobachemie.com

1.4. Emergency telephone number

Emergency number

: + 91 22 6663 6663 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin sensitisation, Category 1	H317
Carcinogenicity, Category 2	H351
Specific target organ toxicity - Repeated exposure, Category 1	H372
Hazardous to the aquatic environment – Chronic Hazard,	H412
Category 3	
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

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2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS07 GHS08 Signal word (CLP) : Danger Hazard statements (CLP) : H317 - May cause an allergic skin reaction. H351 - Suspected of causing cancer. H372 - Causes damage to organs through prolonged or repeated exposure. H412 - Harmful to aquatic life with long lasting effects. Precautionary statements (CLP) : P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P273 - Avoid release to the environment. P280 - Wear protective clothing, eye protection, face protection, protective gloves. P302+P352 - IF ON SKIN: Wash with plenty of water. P308+P313 - IF exposed or concerned: Get medical advice/attention. Nordic countries regulation Denmark : 00-6 (Executive Order No. 301 from 1993) MAL code

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Substance type	: Mono-constituent	
Name	Product identifier	%
NICKEL POWDER	CAS-No.: 7440-02-0 EC-No.: 231-111-4 EC Index-No.: 028-002-00-7	100
3.2. Mixtures		

Not applicable

SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures general : Suspected of causing cancer. IF exposed or concerned: Get medical advice/attention. First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice. First-aid measures after skin contact Wash with plenty of water/.... If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Wash contaminated clothing before reuse. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention. First-aid measures after ingestion : Rinse mouth out with water. If you feel unwell, seek medical advice. Call a poison center or a doctor if you feel unwell.

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4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects	: Causes damage to organs through prolonged or repeated exposure.	
Symptoms/effects after inhalation	: May cause an allergic skin reaction.	
Symptoms/effects after skin contact	: May cause an allergic skin reaction.	
Symptoms/effects after eye contact	: None under normal conditions. Dust from this product may cause eye irritation.	
Symptoms/effects after ingestion	: None under normal conditions.	

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

Treat symptomatically.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Water spray. Dry powder. Foam.	
Unsuitable extinguishing media	: Do not use a heavy water stream.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 No fire hazard. No direct explosion hazard. Toxic fumes may be released. 	
5.3. Advice for firefighters		
Firefighting instructions Protection during firefighting	 Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. 	

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective	equipment and emergency procedures		
General measures	: Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.		
6.1.1. For non-emergency personnel			
Protective equipment Emergency procedures	 Wear recommended personal protective equipment. Ventilate spillage area. Evacuate unnecessary personnel. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. 		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".		
Emergency procedures	: Ventilate area. Evacuate unnecessary personnel.		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for contain	6.3. Methods and material for containment and cleaning up		
For containment	· Using a clean shovel but the material in a dry container and cover without compressing it		

For containment Methods for cleaning up	 Using a clean shovel, put the material in a dry container and cover without compressing it. Mechanically recover the product. Clean up immediately by sweeping or vacuum. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	

For further information refer to section 13.

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SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Additional hazards when processed Precautions for safe handling Hygiene measures	 Not expected to present a significant hazard under anticipated conditions of normal use. Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. Avoid contact with skin and eyes. 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 hands, forearms and face thoroughly after handling. Always wash hands after 	
7.2. Conditions for safe storage, inclu	handling the product.	
Technical measures Storage conditions Packaging materials	 Keep in a cool, well-ventilated place away from heat. Store in original container. Keep container tightly closed. Store in a dry place. Store locked up. Store always product in container of same material as original container. 	
7.3. Specific end use(s)		

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment.





8.2.2.1. Eye and face protection

Eye protection: Chemical goggles or safety glasses

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8.2.2.2. Skin protection

Skin and body protection:

Wear a mask

Hand protection: Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection: Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Greyish black.
Appearance	: Powder.
Molecular mass	: 58.71 g/mol
Odour	: Odourless.
Odour threshold	: Not available
Melting point	: 1455 °C
Freezing point	: Not applicable
Boiling point	: 2730 °C
Flammability	: Non flammable.
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: 400 °C
Decomposition temperature	: Not available
pH	: 9 – 11 at 20 °C
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: Water: Insoluble in water
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 1 mm Hg at 1810 °C
Vapour pressure at 50°C	: Not available
Density	: 8.9 g/cm³ at 25 °C
Relative density	: Not available
Relative vapour density at 20°C	: Not applicable
Particle size	Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Bulk density

: 1600 - 2600 kg/m³

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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information		
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
: Not classified		
pH: 9 – 11 at 20 °C		
: Not classified		
pH: 9 – 11 at 20 °C		
: May cause an allergic skin reaction.		
: Not classified		
: Suspected of causing cancer.		
: Not classified		
: Not classified		
: Causes damage to organs through prolonged or repeated exposure.		
: Not classified		
40-02-0)		
Not applicable		

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Harmful to aquatic life with long lasting effects.
Ecology - water	: Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term	: Not classified
(acute)	
Hazardous to the aquatic environment, long-term	: Harmful to aquatic life with long lasting effects.
(chronic)	
(onionio)	

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12.2. Persistence and degradability		
NICKEL POWDER EXTRA PURE (7440-02-0)		
Persistence and degradability	Rapidly degradable	
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. Endocrine disrupting properties		
No additional information available		
12.7. Other adverse effects		
No additional information available		

13.1. Waste treatment methods : Disposal must be done according to official regulations. Regional waste regulation Waste treatment methods Dispose of contents/container in accordance with licensed collector's sorting instructions. 2 Disposal must be done according to official regulations. Sewage disposal recommendations 2 Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Disposal must be done according to official regulations. Additional information Do not re-use empty containers. 2

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

SECTION 13: Disposal considerations

14.1. UN number or ID number	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	: UN 3089 : UN 3089 : UN 3089 : UN 3089 : UN 3089
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) Transport document description (ADR) Transport document description (IMDG) Transport document description (IATA) Transport document description (ADN) Transport document description (RID)	 METAL POWDER, FLAMMABLE, N.O.S. UN 3089 METAL POWDER, FLAMMABLE, N.O.S. (NICKEL POWDER), 4.1, II, (E) UN 3089 METAL POWDER, FLAMMABLE, N.O.S., 4.1, II

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14.3. Transport hazard class(es) ADR Transport hazard class(es) (ADR) : 4.1 Danger labels (ADR) : 4.1 • IMDG Transport hazard class(es) (IMDG) : 4.1 Danger labels (IMDG) : 4.1 : ΙΑΤΑ : 4.1 Transport hazard class(es) (IATA) Danger labels (IATA) : 4.1 ADN Transport hazard class(es) (ADN) : 4.1 Danger labels (ADN) : 4.1 : RID Transport hazard class(es) (RID) : 4.1 Danger labels (RID) : 4.1

14.4. Packing group	
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	: II : II : II : II
14.5. Environmental hazards	
Dangerous for the environment Marine pollutant Other information	: No : No : No supplementary information available
14.6. Special precautions for user	
Overland transport Classification code (ADR) Special provisions (ADR)	: F3 : 552

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Limited quantities (ADR)	• 1	1kg
Excepted quantities (ADR)		E2
Packing instructions (ADR)		22 P002, IBC08
Special packing provisions (ADR)		34
Mixed packing provisions (ADR)		MP11
Portable tank and bulk container instructions (ADR)	: 1	
Portable tank and bulk container special provisions		TP33
(ADR)		
Tank code (ADR)	. e	SGAN
Vehicle for tank carriage		AT
Transport category (ADR)	: 2	
Special provisions for carriage - Packages (ADR)		- V11
Hazard identification number (Kemler No.)		40
Orange plates	: [
		40
		2000
		40 3089
Turnel restriction code (ADD)		
Tunnel restriction code (ADR)	: E	
EAC code	: 4	+ Y
Transport by see		
Transport by sea		1 ka
Limited quantities (IMDG)		1 kg
Excepted quantities (IMDG)	: E	
Packing instructions (IMDG)		P002
IBC packing instructions (IMDG)		BC08
IBC special provisions (IMDG)		321, B4
Tank instructions (IMDG)		T3
Tank special provisions (IMDG)		TP33 F-G
EmS-No. (Fire)		G S-G
EmS-No. (Spillage)	. c	
Stowage category (IMDG)	. ⊑ : F	
Stowage and handling (IMDG)	_	
Segregation (IMDG) MFAG-No		SGG7, SGG15, SG17, SG25, SG26 170
		170
Air transport		
PCA Excepted quantities (IATA)	• F	Ξ2
PCA Limited quantities (IATA)		 Y441
PCA limited quantity max net quantity (IATA)		5kg
PCA packing instructions (IATA)		445
PCA max net quantity (IATA)		15kg
CAO packing instructions (IATA)		448
CAO max net quantity (IATA)		50kg
Special provisions (IATA)		A3, A803
ERG code (IATA)	: 3	
Inland waterway transport		
Classification code (ADN)	: F	=3
Special provisions (ADN)		552
Limited quantities (ADN)		1 kg
Excepted quantities (ADN)	: E	-
Equipment required (ADN)	: F	p
Number of blue cones/lights (ADN)	: 1	
o (,		
Rail transport		
Classification code (RID)	: F	-3
		-3 552
Classification code (RID)	: 5	
Classification code (RID) Special provisions (RID)	: 5	552 1kg
Classification code (RID) Special provisions (RID) Limited quantities (RID)	: 5 : 1 : E	552 1kg
Classification code (RID) Special provisions (RID) Limited quantities (RID) Excepted quantities (RID)	: 5 : 1 : E	552 1kg E2 P002, IBC08
Classification code (RID) Special provisions (RID) Limited quantities (RID) Excepted quantities (RID) Packing instructions (RID)	: 5 : 1 : E : F : E	552 1kg E2 P002, IBC08

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Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions (RID)	: T3 : TP33
Tank codes for RID tanks (RID)	: SGAN
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W1
Colis express (express parcels) (RID)	: CE10
Hazard identification number (RID)	: 40

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
27.	NICKEL POWDER EXTRA PURE

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Dual-Use Regulation (428/2009)

Contains substance(s) listed on the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items: Nickel powder (7440-02-0)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Germany

Water hazard class (WGK)	: Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV).
Chemicals Prohibition Ordinance (ChemVerbotsV)	: This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10).
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

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Netherlands

SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen SZW-lijst van reprotoxische stoffen – Borstvoeding SZW-lijst van reprotoxische stoffen – Vruchtbaarheid SZW-lijst van reprotoxische stoffen – Ontwikkeling	 The substance is not listed
Denmark	 : 00-6 (Executive Order No. 301 from 1993) : Young people below the age of 18 years are not allowed to use the product
MAL code	Pregnant/breastfeeding women working with the product must not be in direct contact with
Danish National Regulations	the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
РВТ	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration

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Abbreviations and acronyms:	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Carc. 2	Carcinogenicity, Category 2
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.