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REVISION Nº.: 20 ORIGINAL DATE ISSUED :	SAFETY DATA SHEET - NICKEL POWDER DOCUMENT N°.: MAN-HDS-003
<27-JUN-2005 LAST REVIEWED: 24-Aug-2020	

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BASE METALS REFINERY

SAFETY DATA SHEET - NICKEL POWDER

REVISION Nº.: 20

LAST REVIEWED: 24-Aug-2020

BASE METALS REFINERY

SAFETY DATA SHEET - NICKEL POWDER

DOCUMENT Nº.: MAN-HDS-003

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product Name Nickel Powder

Synonym(s) Nickel Metal Powder, 994 Nickel Powder, Impala Nickel Powder

1.2 Uses and uses advised against

Use(s) Catalyst, Printing Industry, Metal Alloys, Nickel Plating, Ceramic

Manufacture, Process Chemical, Industrial Application, Steel

Manufacturing.

1.3 Details of the supplier of the safety data sheet

Supplier name Impala Platinum Ltd – Refineries

Address Base Metals Refinery

P.O. Box 222 SPRINGS 1560 GAUTENG

Republic of South Africa

Contact Person(s) Laboratory Manager, BMR – Suzanne Finney

Tel: +27 11 3603478

E-mail: suzanne.finney@implats.co.za

Nickel Manager, BMR - Sakhumzi Ndlebe

Tel: +27 11 3603317

E-mail: Sakhumzi.ndlebe@implats.co.za

1.4 <u>Emergency Contact telephone number(s)</u>

For emergency information – see above for Impala Platinum contacts.

South Africa Poisons Information Centre: (24 hours): 0861 555 777 (South Africa only)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SANS 10234

GHS Classification(s) Acute toxicity, oral Category 4

Respiratory sensitisation Category 1
Skin sensitisation Category 1
Carcinogenicity Category 2
Specific target organ Toxicity (RE) Category 1
Aquatic toxicity (Chronic) Category 3

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<u>Label Elements:</u> Signal Word 2.2

DANGER

Hazard Pictograms





	*-	•
Health Statement(s)	H301 H317 H334 H413 H351 H372	Harmful if swallowed May cause an allergic skin reaction May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause long lasting harmful effects to aquatic life Limited evidence of carcinogenic effect Causes damage to organs through prolonged or repeated exposure
Prevention statement(s)	P201 P202 P261 P264 P270 P272 P273 P280 P285	Obtain special instruction before use Do not handle until all safety precautions have been read and understood Avoid breathing dust/fume Wash thoroughly after handling Do not eat, drink or smoke when using this product Contaminated work clothes must not be allowed out of the work place Avoid release to the environment Wear protective gloves, protective clothing and eye protection In case of inadequate ventilation wear respiratory protection
Response statements(s	P330 P101 + P312 P302 + P352 P304 + P340	• • • • • • • • • • • • • • • • • • •

P101 + P312	IF SWALLOWED: Call a poison centre/doctor		
P302 + P352	IF ON SKIN: Wash well with plenty of soap and water		
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a		
	position comfortable for breathing		
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several		
	minutes. Remove contact lenses if present and easy to do.		
	Continue rinsing.		
P308 + P313	If exposed or concerned get medical advice/attention		
P311 + P342	If experiencing respiratory symptoms call a poison centre		
	or doctor		
P321	Specific treatment is advised – see first aid instructions		
P333 + P313	If skin irritation or rash occurs get medical advice/attention		
P337 + P313	If eye irritation persists get medical advice/attention		
P363	Wash contaminated clothing before reuse		

Storage statement(s) P405	Stored locked up
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Disposal statement(s) P501 Dispose of contents/container in accordance with relevant

regulations

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2.3 Other Hazards:

No information provided

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances/Mixtures

Ingredient Nickel **Formula** Ni CAS# 7440-02-0 Poison Sched. None Allocated ≥99.80% Conc. Ni Conc. Co <0.15% RTECS# QR5950000 EC# 231-111-4 ICSC# 0062

Hazchem.

UN #
None Allocated
D.G Class
PKG Group
PKG Group
EPG
None Allocated
None Allocated
None Allocated
None Allocated
None Allocated
None Allocated

4. FIRST AID MEASURES

4.1 <u>Description of first aid measures</u>

Eye Flush gently with running water for minimum 15 minutes. Seek medical

attention if irritation develops.

Inhalation If over exposure occurs leave exposure area immediately. If other than minor

symptoms are displayed seek immediate medical attention. Apply artificial

respiration if not breathing.

Skin Remove contaminated clothing and gently flush affected areas with soap and

water. Seek medical attention if irritation develops. Launder clothing before

reuse. Maintain good personal hygiene.

Ingestion If poisoning occurs, contact a Doctor or South Africa Poisons Information

Centre (24 hours): 0861-555-777 (South Africa only). Do not induce vomiting.

Seek immediate medical attention.

First Aid Facilities Eye wash and safety shower facilities should be available.

4.2 <u>Most important symptoms and effects, both acute and delayed</u>

Symptoms and effects are generally associated with chronic exposure (i.e. lung fibrosis). May cause an allergic skin reaction. May cause allergy or asthma or breathing difficulties if inhaled.

4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Use an extinguishing agent suitable for a surrounding fire.

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5.2 Special hazards arising from the substance or mixture

Non-flammable. May evolve toxic nickel oxides when heated. Very finely divided nickel metal in the fully reduced state can smoulder in the presence of oxygen or air. Fine dust may be explosive at high concentrations and/or in confined areas. Prevent contamination of drains or waterways; absorb runoff with sand or similar (**NOT** carbon dioxide or water).

5.3 Advice for firefighters

Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment (see spillage section 6.1 below) including Self Contained Breathing Apparatus (SCBA) when combating fire. Use water fog to cool intact containers and nearby storage areas.

5.4 <u>Hazardous Chemical Code</u>

None allocated.

6. ACCIDENTAL RELEASE MEASURES

6.1 <u>Personal precautions, protective equipment and emergency procedures</u>

Wear PPE as detailed in section 8 of this SDS.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

6.3 <u>Methods of cleaning up</u>

Contain spillage, and collect and place in suitable containers for disposal. Avoid generating dust.

6.4 References to other sections

See sections 8 and 13 for exposure controls and disposal

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Before use, read the product label. Use safe work practices to avoid eye or skin contract and inhalation. Observe good personal hygiene. Prohibit eating, drinking and smoking in contaminated areas (e.g. if container is damaged). Wash hands before eating or smoking.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool, dry, well ventilated area, removed from oxidising agents (e.g. hypochlorites), acids (sulfuric acid), heat sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate ventilation systems.

7.3 Specific end use(s)

Packed in brown 250kg drums and loaded in 1000kg lots on a pallet. Each drum sealed with a security seal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 <u>Control parameters</u>

Exposure standards SA Legislation Ni soluble = 0.1 mg/m³

Ni insoluble = 0.5 mg/m³ Ni metal = 0.5 mg/m³

ICSC0062 Ni soluble = 0.1 mg/m^3

Ni insoluble = 0.2 mg/m³ Ni metal = 1.5 mg/m³

SWA (AUS) Ni Metal TWA 1 mg / m³

Ni Soluble compounds (as Ni): TWA 0.1mg / m³

Biological Limits No biological limit allocated for nickel

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8.2 **Exposure Controls**

Engineering controls Do not inhale dust / powder. Use with adequate natural ventilation. Where

a dust inhalation hazard exists, mechanical extraction ventilation is Maintain dust / fume levels below the recommended recommended.

exposure standard.

PPE Eve Wear dust-proof goggles

Wear PVC or rubber gloves. Hand

Body Wear overalls. Do not take working clothes home.

Respiratory Where an inhalation risk exists, wear a Class P2

(Particulate) respirator.

PHYSICAL AND CHEMICAL PROPERTIES 9.

9.1 Information on basic physical and chemical properties

Appearance Grey/Silver Powder

Odour Odourless **Flammability** Non Flammable **Flash Point** Not Relevant **Lower Explosion Limit** Not Relevant **Upper Explosion Limit** Not Relevant **Auto Ignition Temperature** Not Available **Decomposition Temperature** Not Available **Boiling Point** 2730 °C **Melting Point** 1455 °C **Evaporation Rate** Not Relevant Not Relevant На %Volatiles Not Relevant Vapour Density Not Available

Specific Gravity 8.90

Vapour Pressure Not Relevant Solubility (water) Insoluble **Partition Coefficient** Not Available Not Relevant Viscosity **Explosive Properties** Not Available **Oxidising Properties** Not Available Odour Threshold Not Available **Molecular Weight** 58.71g/mole ≥99.80% Ni concentration

Other information 9.2

No other information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Carefully review all information in sections 10.2 to 10.6.

10.2 Chemical stability

Stable under recommended conditions of storage

10.3 Possibility of hazardous reactions

No reactions expected, except if exposed to incompatible materials – see section 10.5

10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources (fine particles, <3um, can combust when exposed to ignition sources), as well as incompatible materials (section 10.5)

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10.5 Incompatible materials

May evolve flammable – explosive hydrogen gas in contact with strong acids. Incompatible with oxidising agents (e.g. hypochlorites, peroxide, ammonium nitrate) and acids (e.g. sulfuric acid, hydrochloric acid) reacts slowly with non-oxidising acids and more rapidly with oxidising acids. Also incompatible with nitrates, sulfur, selenium, Halogens, Halogen-Halogen Compounds, nitryl compounds and organic solvents. Reacts violently in powder form with titanium powder and potassium perchlorate.

10.6 <u>Hazardous decomposition products</u>

Will evolve toxic metal oxides when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

No reliable data available for nickel. LD50 (Ingestion) for rat is expected to be

>9 000mg/kg

Skin Slightly corrosive – irritant. Repeated contact may result in irritation,

dermatitis with severe itching and possible sensitisation. A skin sensitiser. "Nickel itch" may begin with a burning and itching sensation, followed by redness and blister. Once acquired, nickel sensitivity usually persists. Nickel and its compounds can be absorbed through the skin, but not in amounts sufficient to cause intoxication. Individuals with pre-existing lung or skin

sensitivities/diseases are advised to avoid exposure.

Eye Irritant. Contact may result in lacrimation, irritation, pain redness and

conjunctivitis. Prolonged contact - corneal burns and possible permanent

damage.

Mutagenicity Insufficient data available to classify as a mutagen.

Carcinogenicity Nickel metal is allocated a GHS Classification of "Category 2 - Suspected

Carcinogen". Nickel, metallic and alloys are classified as possibly carcinogenic to humans) IARC Group 2B). These classifications are based on the lack of human evidence of carcinogenicity, but the presence of positive results for tumour induction in animals after injection or intratracheal instillation. An

animal inhalation study was negative for carcinogenicity (Oller et al. 2008).

Reproductive Insufficient data available to classify as a reproductive or development toxin.

STOT – SE

No relevant or reliable studies available. Ingestion may result in gastric irritation, ulceration and burns to the mouth and throat with nausea, vomiting

and abdominal pain. Nickel is poorly absorbed through the stomach.

STOT - RE Over exposure to dust may result in respiratory mucous membrane irritation

and sensitisation. Early inhalation symptoms include nausea, giddiness, weakness, and non-productive cough, followed by breathing difficulties, pulmonary oedema and interstitial fibrosis. Half-life in the body: 667 days. Chronic exposure to nickel compounds may result in increased incidence of

asthma and decreased pulmonary function.

Nickel salts have been shown to cause an increased incidence of asthma and

bronchitis, decreased pulmonary function.

Nickel is poorly absorbed through the gastrointestinal tract, which accounts for its low toxicity via this route. Large doses, 1-3 mg/kg of nickel compounds have been reported to cause intestinal disorders, convulsions & asphyxia in dogs. Heart, brain, liver and kidney damage reported in animals.

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Aspiration Not relevant.

Sensitisation Sufficient data from human studies exists to warrant classification of nickel as

a dermal sensitiser via skin contact. The data availability is insufficient for

classification of metallic nickel as a respiratory sensitiser.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Limited eco-toxicity data was available for this product at the time this report was prepared. Metallic nickel may be harmful to aquatic life with long lasting effects – Aquatic toxicity classification relates to particle sizes less than 1mm diameter (equivalent spherical diameter).

12.2 Persistence and degradability

Not applicable for inorganic substances.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

Nickel mobility in soil is dependent on many parameters, including pH, and naturally occurring silica and hydrous oxides of iron and manganese. Mobility of nickel is controlled by various sorbents which scavenge it from <u>solution</u>. In pristine environments, hydrous oxides of iron and manganese control its mobility via sorption and co-precipitation. In polluted environments, the most abundant organic material will keep nickel soluble. Nickel is one of the most mobile heavy elements in aquatic environments and can persist indefinitely in natural waters. It is toxic to plants at 50-200ppm. Avoid acid dissolution of the nickel metal.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

Nickel and nickel compounds are currently being researched at an International level for eco-toxicity and ecological effects, including bioavailability, partitioning partitioning properties and mobility of the various chemical forms of nickel.

13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods

Waste Disposal Collect and reuse where possible. Minimise dust generation. Contact Impala

Refineries personnel for additional information – see section 1.3

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG, IMDG OR IATA

14.1	<u>UN #</u>	Land Transport (ADG) None Allocated	Sea Transport (IMDG/IMO) None Allocated	Air Transport (IATA/ICAO) None Allocated
14.2	UN proper shipping name	None Allocated	None Allocated	None Allocated
14.3	Transport hazard class D.G Class Subsidiary risk(s)	None Allocated None Allocated	None Allocated None Allocated	None Allocated None Allocated

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14.4	Packing Group	None Allocated	None Allocated	None Allocated
14.5	Environmental hazards	None Allocated	None Allocated	None Allocated
14.6	Special precautions for user Hazchem code	None Allocated	None Allocated	None Allocated

Other information

"Under US DOT only, DG 9, UN 3077 applies to nickel powders if they are < 100 micron in particle size, and if they are packaged in quantities greater than 100 pounds (0.05 metric tonne)".

15. **REGULATORY INFORMATION**

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

A poison schedule number has not been allocated to this product, using the Poison schedule

i olson schedule	criteria in SUSMP.	
Classifications	N T Xi	Dangerous for the environment. Toxic Irritant
Risk phrases	R40 R43 R48/23 R49	Limited evidence of carcinogenic effect May cause sensitisation by skin contact Toxic. Danger of serious damage to health by prolonged exposure through inhalation May cause cancer by inhalation R53 May cause long term adverse effects in the aquatic environment
Safety phrases	\$2 \$22 \$24 \$26 \$36/37/39 \$45 \$61	Keep out of reach of children Do not breathe dust Avoid contact with skin In case of contact with eyes rinse immediately in running water, and seek medical advice Wear suitable protective clothing, gloves, eye protection In case of accident or if you feel unwell, seek medical advice (show label where possible). Avoid release to the environment. Refer to the specific instructions in the SDS.
Regulatory information		SA Hazardous Substances Act 15/1973

SANS 10228:2012 SA National Standard - The identification and classification of dangerous goods for transportation by road and rail modes

GHS of Classification and Labelling of Chemicals

ST/SG/AC.10/3-/Rev.6

Regulation (EC) No. 1907/2006 of the European Parliament and the Council of December 2006

15.2 **Chemical safety assessment**

No other information available

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16. OTHER INFORMATION

Additional information

NICKEL EXPOSURE 1: NIOSH-USA recommended that workers exposed to Nickel and inorganic nickel compounds should have an initial medical exam covering.

- 1. Comprehensive medical and work history with emphasis on skin conditions, allergies, upper and lower respiratory tract illnesses and smoking.
- Complete physical exam with emphasis on upper respiratory tract and skin.
- 3. Specific clinical tests such as X-ray, pulmonary function and indicated sputum cytology and urine nickel analysis.

NICKEL: Reported and potential adverse health effects associated with occupational exposure to Nickel metal and inorganic compounds include; an increased risk of nasal, lung and possibly laryngeal cancer in nickel refinery workers; increased risk of gastric cancer; increased risk of sarcoma (cancer arising from connective tissue); severe irritation of the upper respiratory tract; pulmonary irritation and fibrosis; pneumoconiosis; bronchial asthma; increased susceptibility to respiratory infections; and dermatitis.

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

HEALTH EFFECTS FROM EXPOSURE: It should be noted that the effects from exposure to this will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which encompasses all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made. Additional technical information is available by calling +27 11 3603478 or +27 11 3603317.

COLOUR RATING SYSTEM: Amber. Chem Alert reports are assigned a colour rating of Green, Amber or Red for the purpose of providing users with a quick and easy means of determining the hazardous nature of a product. Safe handling recommendations are provided in all Chem Alert reports so as to clearly identify how users can control the hazards and thereby reduce the risk (or likelihood) of adverse effects. As a general guideline a Green colour rating indicates a low hazard, and Amber colour rating indicates a moderate hazard and a Red colour indicates rating indicates a high hazard.

Whist all due care has been taken in the preparation of the Colour Rating System, it is intended as a guide only and does not provide any warranty in relation to the accuracy of the Colour Rating System. As far as is lawfully possible, Impala accepts no liability or responsibility whatsoever for the actions or omissions of any person in reliance on the Colour Rating System.

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Abbreviations		American Conference of Governmental Industrial Hygienists.
	mg/m3	Milligrams per cubic metre.
	AUS	Australia
	CAS#	Chemical Abstract Service number – used to uniquely identify
		chemical compounds.
	CNS	Central Nervous System.
	EC No.	European Commission Number
	EMS	Emergency Schedules (Emergency procedures for ships carrying
		dangerous goods.
	EU	European Union
	GHS	Globally Harmonised System
	IARC	International Agency for Research on Cancer.
	*IATA	International Air Traffic Association
	*ICAO	International Civil Aviation Organisation
	ICSC	International Chemical Safety Card.
	*IMDG	Inter Modal transport of Dangerous Goods
	*IMO	International Maritime Organisation
	LC50	lethal Concentration, 50%/ Median Lethal Concentration.
	LD50	Lethal Dose, 50% / Median Lethal Dose.
	M	Moles per litre, a unit of concentration.
	OEL	Occupational Exposure Limit.
	рН	Relates to hydrogen ion concentration - this value will relate to a
		scale of 0 – 14, where 0 is highly acidic and 14 is highly alkaline.
	*PPE	Personal Protective Equipment
	ppm	Parts Per Million.
	RTECS	The Registry of Toxic Effects of Chemical Substances.
	STEL	Short Term Exposure Limit
	STOT-RE	Specific Target Organ Toxicity – repeated exposure
	STOT-SE	Specific Target Organ Toxicity – single exposure
	SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
	SWA	Safe Work Australia
	TLV	Threshold Limit Value
	TWA/ES	Time Weighted Average of Exposure Standard.

Report Status: Impala Platinum Ltd. have exercised reasonable care in the preparation of the information contained in this SDS, however, it assumes no responsibility or liability to the accuracy and suitability of such information, for application to the Buyer's intended purposes or consequences of its use. As regulatory standards and guideline recommendations are revised from time to time, Impala gives no assurance that the information contained in this SDS will be current at the time that the SDS is used. It is the responsibility of the Buyer/User to ensure that the most recent version of this document is available.

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