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REVISION N <sup>o</sup> .: 1	WORK PROCEDURE TASK	<b>SAFETY DATA SHEET – NICKEL POWDER</b>
	SECTION:	NICKEL
	DOCUMENT N <sup>o</sup> .:	<b>SDS-002</b>

**Product code** : Not applicable  
**Version** : 1  
**Date of issue** : 01/10/2021  
**Date of previous issue** : No previous validation

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

### 1.1. Product Identifier

**Product name** : Nickel Briquettes  
**Synonyms** : Nickel ingots, Impala Nickel Briquettes, Air Sintered Nickel, Bulk Air Sintered.  
**EC number** : Not applicable  
**UK (GB) REACH Registration number** : Not applicable  
**Legal Identity** : Not Applicable  
**CAS number** : Not applicable  
**Product code** : Not applicable  
**Product type** : Not applicable  
**Other means of identification** : Not applicable

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

#### Specific uses

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)** : Element Coordinator – Org Langenhoven  
Tel: +27 11 360 3176  
E-mail: [georg.langenhoven@implats.co.za](mailto:georg.langenhoven@implats.co.za)  
  
: Nickel Section Manager – Sakhumzi Ndlebe  
Tel: +27 11 360 3317  
E-mail: [Sakhumzi.ndlebe@implats.co.za](mailto:Sakhumzi.ndlebe@implats.co.za)

### 1.4. Emergency telephone number

For emergency information – see above for Impala Platinum contacts.  
South Africa Poisons Information Centre (24 hours) 0861-555-777 (South Africa only)

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## SECTION 2: Hazard Identification

### 2.1. Classification of the substance or mixture GHS Classification (sans 10234)

#### Health Hazard:

Acute toxicity, oral	Category 4	H301	May be harmful if swallowed
Respiratory sensitisation	Category 1	H333	May be harmful if inhaled
Skin sensitisation	Category 1	H317	Prolonged skin contact may cause an allergic reaction
Carcinogenicity	Category 2	H351	Limited evidence of carcinogenic effect
Specific target organ Toxicity (RE)	Category 1	H372	Causes damage to organs through prolonged or repeated exposure

#### Environmental Hazard:

Category 3	H413	May cause long lasting harmful effects in aquatic life
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### 2.2. Label elements

#### Hazard Pictograms



#### Signal word

DANGER

#### Precautionary statements

##### Prevention

- : P201 Obtain special instructions before use.
- : P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust/fume
- P264 Wash thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P272 Contaminated work clothes must not be allowed out of the workplace
- P273 Avoid release to the environment
- P280 Wear protective gloves, protective clothing and eye protection
- P285 In case of inadequate ventilation wear respiratory protection

##### Response

- : P330 Rinse mouth
- 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

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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

<b>Storage</b>	:	P405	Stored locked up
<b>Disposal</b>	:	P501	Dispose of contents/container in accordance with local/regional/national/international regulations
<b>Supplemental label elements</b>	:		Not applicable.

## SECTION 3: Composition / Information on Ingredients

### 3.1. Substances

Ingredient	:	Nickel
Formula	:	Ni
CAS N <sup>o</sup>	:	7440-02-0
Poison Sched	:	None Allocated
Conc.Ni	:	≥99.80%
Conc. Co	:	≤0.15%
RTECS N <sup>o</sup>	:	QR5950000
EC No	:	231-111-4
ICSC N	:	0062

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>Eye contact</b>	:	Flush gently with running water for minimum 15 minutes. Seek medical attention if irritation develops.
<b>Inhalation</b>	:	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.
<b>Skin contact</b>	:	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.
<b>Ingestion</b>	:	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.

#### Most important symptoms and effects, both acute and delayed

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.

#### Immediate medical attention and special treatment needed

Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1. Fire Fighting

Flash Point	:	Not applicable
Flammable Limits	:	Not applicable
Auto-ignition Point	:	Not applicable
Fire Extinguishing Media	:	Use an extinguishing agent suitable for a surrounding fire.
Special Fire Fighting Procedures	:	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).
Hazardous Chemical Code	:	Non allocated
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.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** : Wear PPE as detailed in section 8 of this SDS.

### 6.2. Environmental precautions

**Environmental precautions** : Prevent product from entering drains and waterways.

### 6.3. Methods and material for containment and cleaning up

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.

## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

**Protective measures / Packing material/ Handling** : Before use, read the product label. Use safe work practices to avoid eye or skin contact 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.

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### 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)

- Sintered Briquettes : Packed in black 250kg drums and loaded in 1000kg lots on a pallet. Each drum sealed with a security seal. Or Packed in bags and loaded in 1000kg lots on a pallet.
- Un-Sintered Briquettes : Packed in bags and loaded in 1000kg lots on a pallet.
- Air-Sintered Briquettes : Packed in bags and loaded in 1000kg lots on a pallet.
- Bulk product : Emptied into a tipper/truck directly from feed bin

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

#### Occupational Exposure Limit:

	Exposure limit values
SA Législation	Ni soluble = 0.1 mg/m3
	Ni insoluble = 0.5 mg/m3
	Ni metal = 0.5 mg/m <sup>3</sup>
ICSC0062	Ni soluble = 0.1 mg/m3
	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

### 8.2. Exposure controls

- Respiratory protection** : Where an inhalation risk exists, wear a Class P2 (Particulate) respirator.
- Hand protection** : Wear PVC or rubber gloves.
- Eye protection** : Wear dust-proof goggles
- Skin protection** : Wear overalls. Do not take working clothes home.

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## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	:	Grey/Silver Powder
<b>Odour</b>	:	Odourless
<b>Flammability (Solid, gas)</b>	:	Non-Flammable
<b>Flash Point</b>	:	Not relevant
<b>Lower Explosion Limit</b>	:	Not relevant
<b>Upper Explosion Limit</b>	:	Not relevant
<b>Auto Ignition Temperature</b>	:	Not relevant
<b>Boiling Point</b>	:	2730 °C
<b>Melting Point</b>	:	1455 °C
<b>Evaporation Rate</b>	:	Not relevant
<b>pH</b>	:	Not relevant
<b>%Volatiles</b>	:	Not relevant
<b>Specific Gravity</b>	:	8.90
<b>Vapour Pressure</b>	:	Not relevant
<b>Solubility (water)</b>	:	Insoluble
<b>Molecular Weight</b>	:	58.71g/mole
<b>Ni concentration</b>	:	≥99.80%

## SECTION 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, <3µm, can combust when exposed to ignition sources), as well as incompatible materials (section 10.5)

### 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, nitril compounds and organic solvents. Reacts violently in powder form with titanium powder and potassium perchlorate.

### 10.6. Hazardous decomposition products

Will evolve toxic metal oxides when heated to decomposition.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Eye</b>	:	Irritant. Contact may result in lacrimation, irritation, pain redness and conjunctivitis. Prolonged contact – corneal burns and possible permanent damage.
<b>Acute Toxicity</b>	:	No reliable data available for nickel. LD50 (Ingestion) for rat is expected to be >9 000mg/kg
<b>Skin Irritation:</b>	:	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.
<b>Mutagenicity:</b>	:	Insufficient data available to classify as a mutagen.
<b>Carcinogenicity</b>	:	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).
<b>Reproductive</b>	:	Insufficient data available to classify as a reproductive toxin.
<b>STOT – SE</b>	:	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.
<b>STOT – RE</b>	:	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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<b>Aspiration:</b>	:	Not relevant.
<b>Sensitisation:</b>	:	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.

## SECTION 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. Bioaccumulate 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 solution. 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. Other adverse effects

Persistence and Biodegradability: : Not applicable for inorganic substances.

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

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## SECTION 13: Disposal considerations

<b>Product Methods of disposal</b>	:	Collect and re-use where possible.
	:	Minimise dust generation.
	:	Contact Impala Refineries Laboratory Manager on +27 11 360 3255 or Platinum Section Manager on +27 360 3127.
<b>Legislation:</b>	:	Dispose of in accordance with relevant local legislation.

## SECTION 14: Transport information

### 14.1. UN number

ADR/RID	ADN	IMDG	IATA
N/A	N/A	N/A	N/A

### Not classified as a dangerous good Not regulated for Transport Purposes

Packing:	Not applicable
IMDG-Code:	Not applicable
ICAO / IATA:	Not applicable
RID / ADR:	Not applicable

### 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)".

## SECTION 15: Regulatory information

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

<b>Poison schedule:</b>		A poison schedule number has not been allocated to this product, using the criteria in SUSMP.
<b>Classifications:</b>	N T Xi	Dangerous for the environment. Toxic Irritant
<b>Risk phrases:</b>	R40 R43 R48/23  R49 R53	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 May cause long term adverse effects in the aquatic environment.
<b>Safety phrases:</b>	S2 S22 S24 S26  S36/37/39	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

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	Protection
S45	In case of accident or if you feel unwell, seek medical advice (show label where possible).
S61	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.

**15.1 Chemical Safety Assessment Regulation**

EC no. 1907/2006 of the European Parliament and the Council of December 2006.

**SECTION 16:Other information**

**Abbreviations and acronyms :**

<b>mg/m<sup>3</sup> :</b>	:	milligrams per cubic metre
<b>ppm:</b>	:	parts per million
<b>TWA/ES:</b>	:	Time Weighted Average of Exposure Standard
<b>pH:</b>	:	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.
<b>CAS N°:</b>	:	Chemical Abstract Service number – used to uniquely identify chemical compounds.
<b>M:</b>	:	Moles per litre, a unit of concentration.
<b>IARC:</b>	:	International Agency for Research on Cancer.
<b>RTECS:</b>	:	The Registry of Toxic Effects of Chemical Substances.
<b>ICSC:</b>	:	International Chemical Safety Card.
<b>EC No:</b>	:	European Commission Number
<b>EU:</b>	:	European Union
<b>AUS:</b>	:	Australia
<b>RTECS</b>	:	The Registry of Toxic Effects of Chemical Substances.
<b>STEL</b>	:	Short Term Exposure Limit
<b>STOT-RE</b>	:	Specific Target Organ Toxicity – repeated exposure
<b>STOT-SE</b>	:	Specific Target Organ Toxicity – single exposure
<b>SUSMP</b>	:	Standard for the Uniform Scheduling of Medicines and Poisons
<b>SWA</b>	:	Safe Work Australia
<b>TLV</b>	:	Threshold Limit Value
<b>TWA/ES</b>	:	Time Weighted Average of Exposure Standard.

**Additional information:**

<b>NICKEL EXPOSURE</b>	NIOSH-USA recommended that workers exposed to Nickel and inorganic nickel compounds should have an initial medical exam covering. 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. Specific clinical tests such as X-ray, pulmonary function and indicated sputum cytology and urine nickel analysis.
<b>NICKEL</b>	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.

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## 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 rating indicates a high hazard.

Whilst 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.

## 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 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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