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MATERIAL SAFETY DATA SHEET - NICKEL TABLET

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

Product name: Nickel Tablets for Hot Dip Galvanizing

Relevant identified uses of the substance or mixture and uses advised against: Industrial

Details of the supplier of the safety data sheet:

Technodel 2007 Ltd.

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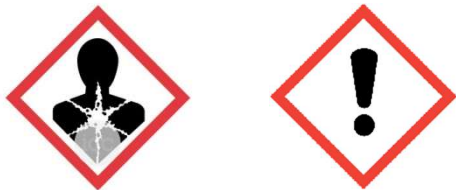
SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008: not classified

Classification according to EU Directive 67/548/EEC/1999/45 EC: not classified

Label elements:



Hazard Statements

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Suspected of causing cancer.

Causes damage to lungs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

Prevention Statements

Do not handle until all safety precautions have been read and understood.

Do not breathe dust or fume.

Contaminated work clothing should not be allowed out of the workplace.

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Wear protective gloves/ protective clothing/eye protection.

If on skin: wash with plenty of water

If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If exposed or concerned: get medical advice /attention.

Avoid release to the environment.

SECTION 3: Composition/information on ingredients

Ingredient name	Identifiers	GHS Classification
Nickel Powder	CAS number:7440-02-0 EC number:231-111-4	Skin Sens.1 H317 Carc. 2 H351 STOT RE 1 H372 Aquatic Chronic 3 H412
Paraffin	CAS number8002-74-2 EC number:232-315-6	Not available
The rest is not defined	----	Not available

See section 16 for the full text of the H-statements declared above.

SECTION 4: First aid measures

Description of first aid measures:

Eyes contact: In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. Get medical attention

Skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Get medical attention.

Inhalation: Remove the victim from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

Ingestion: Do not induce vomiting. If victim is conscious, wash mouth thoroughly with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention .

Most important symptoms and effects, both acute and delayed:

See section 2 (Label elements) and/or section 11 (Toxicological information) for the most important known symptoms and effects.

Indication of any immediate medical attention and special treatment needed:

Not available

SECTION 5: Fire-fighting measures

Flammable properties:

Flash point (Opened Cup): > 190 Deg C

Extinguishing media:

Suitable: Use an extinguishing media suitable for surrounding fire. Use water fog to cool intact containers and nearby storage areas.

Not suitable: Full water jet.

Advice for firefighters:

Special protective equipment for fire fighters: Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing dust. Ensure adequate ventilation. Ventilate area of spill. Avoid dust formation.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

Methods and materials for containment and cleaning up

Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of dust. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove

Contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information measures.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed, in a cool, dry and well ventilated area. Keep away from oxidizing agents, acids and alkalis.

Specific end use(s): N/A

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SECTION 8: Exposure control/personal protection

Ingredient name	Occupational exposure limits
Nickel	ACGIH-TLV 1.5 mg/m ³ (TWA), inhal.
Paraffin	ACGIH-TLV 2 mg/m ³ (TWA), fume

Exposure controls

Engineering measures

Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Person Protective measures

Respiratory protection: Disposable particulate mask–P2. Be sure to use an approved/certified equipment or equivalent equipment. Wear appropriate respirator when ventilation is inadequate.

Hand protection: Wear protective gloves to prevent skin exposure (e.g. PVC, Rubber, Nitrile). Avoid latex gloves.

Eye protection: Wear protective safety glasses.

Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

Environmental exposure controls: Not available

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Nickel

Appearance: Solid

Odour: N/A

Odour threshold: N/A

pH: N/A

Melting point/Freezing point: N/A

Boiling point (°C): Over 320°C (ASTM D2887)

Flash point: (°C): Over 190°C (ASTM D92)

Evaporation rate: N/A

Flammability: N/A

Upper/lower flammability or explosive limits: N/A

Vapor pressure: N/A

Vapor density: N/A

Relative density: N/A

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Solubility(ies): N/A

Partition coefficient Octanol/Water: N/A

Auto-ignition temperature: N/A

Decomposition temperature: N/A

Viscosity: N/A

Explosive properties: N/A

Oxidizing properties: N/A

Other information

N/A

SECTION 10: Stability and reactivity

Reactivity: Not available

Chemical stability

The product is stable under normal handling and storage conditions described in Section 7.

Possibility of hazardous reactions

Hazardous reactions are not expected, under normal conditions of storage and use.

Conditions to avoid

Heat, sparks, open flames and other ignition sources.

Hazardous decomposition products

Other decomposition products: not available

In the event of fire: see section 5

SECTION 11: Toxicological information

Hazard Class	Conclusion/Remarks
Inhalation	
Data Waving	
Irritation: No end point data.	Negligible hazard at ambient/normal handling temperatures. Based on assessment of the components.
Ingestion	
Acute Toxicity(Rat): LD50>5000 mg/kg Test scores or other study results do not Meet criteria for classification.	Minimally Toxic. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 401
Skin	
Acute Toxicity(Rat): LD50>2000 mg/kg Test scores or other study results do not meet criteria for classification.	Minimally Toxic. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 402
Irritation: (Rabbit): not irritating	Test(s) equivalent or similar to OECD Guideline 404

Skin Corrosion: no data available.	
Eye	
Serious Eye Damage/Irritation(Rabbit): not irritating	Test(s) equivalent or similar to OECD Guideline 405
Sensitization	
Respiratory Sensitization: No end point data.	
Skin Sensitization Not Sensitizing	Test(s) equivalent or similar to OECD Guideline 406
Aspiration: No Data available.	Not expected to be an aspiration hazard. Based on physic-chemical properties of the material.
Germ Cell Mutagenicity: Negative	Test(s) equivalent or similar to OECD Guideline 471 473 474 476
Carcinogenicity: Negative	Test(s) equivalent or similar to OECD Guideline 451 453
Reproductive Toxicity: No data available.	

SECTION 12: Ecological information

Persistence and Degradability: Not available

Bioaccumulative potential: In general, nickel bioaccumulation is relatively low and nickel does not become magnified along food chain.

Mobility in soil: Not available

Results of PBT and vPvB assessment: Not available

Other adverse effects: Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal Considerations

Waste treatment methods

Product

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Packing

Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14: Transport Information

Un number: Not regulated as a hazardous material for transportation.

LAND (ADR/RID): Not Regulated for Land Transport

INLAND WATERWAYS (ADNR/ADN): Not Regulated for Inland Waterways Transport

SEA (IMDF): Not Regulated for Sea Transport according to IMDG-Code

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SEA (MARPOL 73/78 Convention – Annex II): Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code. Not classified according to Annex II.

AIR (IATA): Not Regulated for Air Transport

SECTION 15: Regulatory Information

This SDS complies with the following requirements of:

EU Regulation (EC) No.1907/2006 (REACH) including amendments

Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

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

Not available

Chemical safety assessment: Not available

SECTION 16: Other Information

Full text of Hazards Statements referred to in sections 2 and 3:

Skin Sens. - Skin sensitization

Carc. - Carcinogenicity

STOT RE - Specific target organ toxicity — repeated exposure

Aquatic Chronic - Hazardous to the aquatic environment

H317: May cause an allergic skin reaction.

H351: Suspected of causing cancer.

H372: Causes damage to organs through prolong or repeated exposure.

H412: Harmful to aquatic life with long lasting effects.

Training advice: Before using/handling the product one must read carefully present SDS.

Key Legend Information:

CAS- Chemical Abstract Service

ACGIH- American Conference of Governmental Industrial Hygienists

OSHA- Occupational Safety and Health Administration

NTP- National Toxicology program

IARC- International Agency for Research on Cancer

N/A- Not available

H-statements- Hazard statements

TLV- Threshold Limit Value

TWA- Time-weighted average

CSA- Chemical safety assessment

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