





(Contd. on page 2)

## Product name: Nickel foil

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Index number: 028-002-00-7	(Contd. of page 1)
4 First-aid measures	
Description of first aid measures General information No special measures required. After inhalation Supply fresh air and to be sure call for a doctor. Seek medical treatment in case of complaints. After skin contact Generally the product does not irritate the skin. After skin contact Generally the product does not irritate the skin. After skin contact Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. After swallowing if symptoms persist consult doctor. Information for doctor Most important symptoms and effects, both acute and delayed Suspected of causing cancer. May cause an allergic skin reaction. Causes damage to the lung, the kidneys and the liver through prolonged or repeated exposure. Route of exposure: Inhalation. Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures	
Extinguishing media Suitable extinguishing agents Special powder for metal fires. Do not use water. For safety reasons unsuitable extinguishing agents Water Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Nickel oxides Advice for firefighters Protective equipment: No special measures required.	
6 Accidental release measures	
Personal precautions, protective equipment and emergency procedures Not required. Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC-1: 4.5 mg/m3 PAC-3: 99 mg/m3	
7 Handling and storage	
Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No special measures required. Conditions for safe storage, including any incompatibilities Storage	
Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Do not store together with acids. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.	
Specific end use(s) No further relevant information available.	
8 Exposure controls/personal protection Additional information about design of technical systems: No further data; see section 7.	
Control parameters	
Components with limit values that require monitoring at the workplace: 7440-02-0 Nickel (100.0%)	
PEL (USA) Long-term value: 1 mg/m <sup>3</sup>	
REL (USA) Long-term value: 0.015 mg/m <sup>3</sup> as Ni; See Pocket Guide App. A	
TLV (USA) Long-term value: 1.5* mg/m³ elemental, *inhalable fraction	
EL (Canada) Long-term value: 0.05 mg/m <sup>3</sup> ACGIH A1, IARC 2B	
EV (Canada) Long-term value: 1 mg/m <sup>3</sup> Inhalable fraction	
Additional information: No data Exposure controls	
Personal protective equipment General protective and hygienic measures	
The usual protective and mygerine incastness The usual precautionary measures for handling chemicals should be followed. Maintain an ergonomically appropriate working environment.	
Breathing equipment: Not required. Protection of hands: Not required.	
Eye protection: Safety glasses with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing.	USA
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9 Physical and chemical properties	
Information on basic physical and che General Information Appearance:	emical properties
Appearance. Form: Odor:	Solid in various forms Odorless
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range:	1455 °C (2651 °F) 2732 °C (4950 °F)
Boiling point/Boiling range: Sublimation temperature / start:	Not determined
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined
Decomposition temperature: Auto igniting:	Not determined Not determined.
Danger of explosion:	Not determined.
Explosion limits: Lower: Upper:	Not determined
Upper: Vapor pressure: Descine et 20 °C (68 °C):	Not determined Not applicable. 9.000 r/cm3 (74, 207, lbs (rol))
Density at 20 °C (68 °F): Relative density	8.908 g/cm³ (74.337 lbs/gal) Not determined.
Vapor density Evaporation rate	Not applicable. Not applicable.
Solubility in / Miscibility with Water:	Insoluble
Partition coefficient (n-octanol/water): Viscosity:	): Not determined.
dynamic: kinematic:	Not applicable. Not applicable.
Other information	No further relevant information available.
Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Acids Hazardous decomposition products: I 11 Toxicological information	<b>to be avoided:</b> Decomposition will not occur if used and stored according to specifications. o dangerous reactions known nt information available.
Information on toxicological effects Acute toxicity: The Registry of Toxic Ef LD/LC50 values that are relevant for c Skin irritation or corrosion: May cause Eye irritation or corrosion: May cause Sensitization: May cause an allergic ski Germ cell mutagenicity: The Registry of Carcinogenicity: Suspected of causing cancer.	e irritation e irritation kin reaction. of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.
IARC-2B: Possibly carcinogenic to huma The Registry of Toxic Effects of Chemica	ans: limited evidence in humans in the absence of sufficient evidence in experimental animals. al Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this substance. f Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance.
Specific target organ system toxicity	
Specific target organ system toxicity	
Aspiration hazard: No effects known. Subacute to chronic toxicity: The Reg Additional toxicological information:	gistry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
12 Ecological information Toxicity Aquatic toxicity: No further relevant infor Persistence and degradability No furth Bioaccumulative potential No further n Mobility in soil No further relevant inform Additional ecological information: General notes: Do not allow product to reach ground wa Danger to drinking water if even small qu Avoid transfer into the environment. Results of PBT and vPVB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releva	ther relevant information available. relevant information available. rmation available. ater, water course or sewage system. yuantities leak into the ground. ht
Uncleaned packagings:	or national regulations to ensure proper disposal.

**Recommendation:** Disposal must be made according to official regulations.

# Product name: Nickel foil

Transport information         UN-Number         DOT, ADN, IMDG, IATA         Not applicable         UN proper shipping name         DOT, ADR, ADN, IMDG, IATA         Not applicable         Transport hazard class(es)         DOT, ADR, ADN, IMDG, IATA         Not applicable         Packing group         DOT, ADR, IMDG, IATA         Not applicable         Environmental hazards:         Not applicable.         Special precautions for user         Not applicable.         Transport in bulk according to Annex II of MARPOLT3/78 and the IBC Code Not applicable.         Transport/Additional information:         DOT         Hazardous substance:       100 lbs. 45.4 kg	roduct name: Nickel foil	
UN-Mumber DOT, ADD, MDG, IATA Not applicable UN proper shipping name DOT, ADR, MDG, IATA Not applicable Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Not applicable Packing group POT, ADR, MDG, IATA Not applicable Environmental hazards: Not applicable Environmental hazards: Not applicable Environmental formation: POT, ADR, MDG, IATA Not applicable Environmental information: DOT framsport/Additional information: DOT developmental information: DOT Hazardous substance: 100 lbs, 45.4 kg Marine Pollutant (DOT): No Not applicable Regulatory information Safety, health and environmental regulations/agislation specific for the substance or mixture GHS 00 CFR Safety Saf		(Contd. of pa
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DOT, ADR, ADN, IMDG, IATA       Not applicable         Packing group       Not applicable         DOT, ADR, MDG, IATA       Not applicable         Environmental hazards:       Not applicable.         Special precautions for user       Not applicable.         Transport In bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.       Transport.         Transport In bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.       Transport.         Transport In bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.       Transport.         Work applicable       100 lbs., 45.4 kg         Marine Pollutant (DOT):       Not applicable         Regulatory information       Not applicable         Safety, health and environmental regulations/legislation specific for the substance or mixture of 156 label all ements The product is classified and labeled in accordance with 29 CFR. 1910 (OSHA HCS)         Pacard pictograms       Pacard statements         PAC       Pacard statements         PACT Statements       Not applicable         Program       Pacard statements         PACT Statements       Pacard statements         PACT Statements       Pacard statements         PACT Statements       Pacard statements         PACT Statements       Pacard statements         PA		Not applicable
Class       Not applicable         Packing group       Not applicable         DOT, ADR, IMDG, IATA       Not applicable         Environmental hazards:       Not applicable.         Special precautions for user       Not applicable.         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.       Transport/Additional information:         DOT       100 lbs, 45.4 kg         Marine Pollutant (DOT):       No         UN "Model Regulation":       Not applicable         Regulatory information       Secty, health and environmental regulations/legislation specific for the substance or mixture GRS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hazard statements       Hazard statements         H372 Causes and largic skin reaction.       H324 distatements         H372 Causes and largic skin reaction.       H324 distatements         H372 Causes and largic skin reaction.       H324 distatements         H372 Causes and allergic skin reaction.       H324 distatements         H372 Causes and largic skin reaction.       H324 distatements         H372 Causes and allergic skin reaction.       H324 distatements         H372 Causes and allergic skin reaction.       H324 distatements         H372 Causes and allergic skin reaction.       H374 May cause an allergic skin reaction.	Transport hazard class(es)	
Packing group DOT, ADR, MDG, LATA       Not applicable         DOT, ADR, MDG, IATA       Not applicable.         Environmental hazards:       Not applicable.         Special precautions for user       Not applicable.         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.       Transport/Additional information:         DOT       Hazardous substance:       100 lbs, 45.4 kg         Marine Pollutant (DOT):       No       No         UN "Model Regulatory information       Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements. The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Agard pictograms       GHSOT         VI       Word Danger         Hazard bictograms       Hazard bictograms         VI       On the kidneys and the liver through prolonged or repeated exposure. Route of exposure: Inhalation.         PSP       Dota special instructions before use.         PS0       Wear protective gloves/protective clothing/eye protection/face protection.         PS0+P315 [ Store locked up.       Protective gloves/protective clothing/eye protection.         PS0+P315 [ Store locked up.       Store locked up.         PS01       Ublapspecial extendiate in the U.S. Environmental Protection. Agency Toxic Substances Control Act Chemical substance Inventory.         At		Natanakia
Environmental hazards:       Not applicable.         Special precautions for user       Not applicable.         Transport In bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.         Transport/Additional information:         DOT         Hazardous substance:       100 lbs, 45.4 kg         Marine Pollutant (DOT):       No         UN "Model Regulation":       Not applicable         Regulatory information       Safety, health and environmental regulations/legislation specific for the substance or mixture         GHS Table elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hazard pictograms         GHS Table elements         For GHS08         Signal word Danger         Hazard statements         Preceutionary statements         Protective gloves/protective clowing/regional/national/international regulations.         Prod       Do not breathe dust/tume/gas/mist/vapors/pray.         P201       Do hot breathe dust/tume/gas/mist		Not applicable
Environmental hazards:       Not applicable.         Special precautions for user       Not applicable.         Transport In bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.         Transport/Additional information:         DOT         Hazardous substance:       100 lbs, 45.4 kg         Marine Pollutant (DOT):       No         UN "Model Regulation":       Not applicable         Regulatory information       Safety, health and environmental regulations/legislation specific for the substance or mixture         GHS Table elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hazard pictograms         GHS Table elements         For GHS08         Signal word Danger         Hazard statements         Preceutionary statements         Protective gloves/protective clowing/regional/national/international regulations.         Prod       Do not breathe dust/tume/gas/mist/vapors/pray.         P201       Do hot breathe dust/tume/gas/mist	DOT, ADR, IMDG, IATA	Not applicable
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Transport/Additional information:       DOT         DOT       100 lbs, 45.4 kg         Marine Pollutant (DOT):       No         W "Model Regulation":       Not applicable         Regulatory information         Safety, health and environmental regulations/legislation specific for the substance or mixture         GMS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hazard pictograms         VV         VV         Signal word Danger         Hazard pictograms         VIN They cause an allergic skin reaction.         H331 Suspected of causing cancer.         H371 May cause an allergic skin reaction.         H332 Suspected of causing cancer.         H372 Causes damage to the lung, the kidneys and the liver through prolonged or repeated exposure. Route of exposure: Inhalation.         Precautionary statements         P80       Wear protective cloves/protective cloves/protection/face protection.         P308+P313 IF exposed or contenned: Get medical advice/attention.         P309+P313 IF exposed or contenned: Get medical advice/attention.         P405       Store locked up.         P501       Dispose of contenned: Get medical advice/attention.         P405       Store locked up.         P501       Dispose of contenned: Get medical ad	Special precautions for user	Not applicable.
DOT       Hazardous substance:       100 lbs, 45.4 kg         Marine Pollutant (DOT):       No         UN "Model Regulation":       Not applicable         Regulatory information         Safety, health and environmental regulations/legislation specific for the substance or mixture         GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hazard pictograms         Voi         Voi         GHS07 GHS08         Signal word Danger         Hazard statements         H317 May case an allergic skin reaction.         H322 Causes damage to the lung, the kidneys and the liver through prolonged or repeated exposure. Route of exposure: Inhalation.         P260       Do not breath dust/fume/gas/mist/vapors/spray.         P201       Obtain special instructions before use.         P280       Wear protective cloves/protective cloving/eye protection/face protection.         P308+P313 IF exposed or concerned: Get medical advice/attention.         P304+P313 IF exposed or contenent ked on the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.         All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.         All components of this product are listed on the U.S. Environmental Protection Agency Toxic Substances Control Act Chemica	Transport in bulk according to Annex II of MARPOL73	I/78 and the IBC Code Not applicable.
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Precautionary statements         P260       Do not breathe dust/fume/gas/mist/vapors/spray.         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.         P405       Store locked up.         P501       Dispose of contents/container in accordance with local/regional/national/international regulations.         National regulations       National regulations         All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.         All components of this product are listed on the Canadian Domestic Substances List (DSL).         SARA Section 313 (specific toxic chemical listings)         7440-02-0       Nickel         Prop 65 - Chemicals known to cause cancer         7440-02-0       Nickel	H351 Suspected of causing cancer.	
P260       Do not breathe dust/fume/gas/mist/vapors/spray.         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.         P405       Store locked up.         P501       Dispose of contents/container in accordance with local/regional/national/international regulations.         National regulations         All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.         All components of this product are listed on the Canadian Domestic Substances List (DSL).         SARA Section 313 (specific toxic chemical listings)         7440-02-0         Nickel         Prop 65 - Chemicals known to cause cancer         7440-02-0         Nickel	H372 Causes damage to the lung, the kidneys and the live Precautionary statements	er through prolonged or repeated exposure. Route of exposure: Inhalation.
P280       Wear protective gloves/protective clothing/eye protection/face protection.         P308+P313       IF exposed or concerned: Get medical advice/attention.         P405       Store locked up.         P501       Dispose of contents/container in accordance with local/regional/national/international regulations.         National regulations         All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.         All components of this product are listed on the Canadian Domestic Substances List (DSL).         SARA Section 313 (specific toxic chemical listings)         7440-02-0         Nickel         Prop 65 - Chemicals known to cause cancer         7440-02-0         Nickel	P260 Do not breathe dust/fume/gas/mist/vapors/sp	ray.
P308+P313 IF exposed or concerned: Get medical advice/attention.         P405       Store locked up.         P501       Dispose of contents/container in accordance with local/regional/national/international regulations.         National regulations         All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.         All components of this product are listed on the Canadian Domestic Substances List (DSL).         SARA Section 313 (specific toxic chemical listings)         7440-02-0] Nickel         Prop 65 - Chemicals known to cause cancer         7440-02-0] Nickel	P201 Obtain special instructions before use. P280 Wear protective gloves/protective clothing/ev	e protection/face protection.
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National regulations         All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.         All components of this product are listed on the Canadian Domestic Substances List (DSL).         SARA Section 313 (specific toxic chemical listings)         7440-02-0         Nickel         Prop 65 - Chemicals known to cause cancer         7440-02-0         Nickel	P405 Store locked up. P501 Dispose of contents/container in accordance	with local/regional/national/international regulations.
All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) 7440-02-0 Nickel California Proposition 65 Prop 65 - Chemicals known to cause cancer 7440-02-0 Nickel	National regulations	
SARA Section 313 (specific toxic chemical listings)         7440-02-0       Nickel         California Proposition 65         Prop 65 - Chemicals known to cause cancer         7440-02-0       Nickel	All components of this product are listed in the U.S. Enviro All components of this product are listed on the Canadian	onmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. Domestic Substances List (DSL).
California Proposition 65 Prop 65 - Chemicals known to cause cancer 7440-02-0 Nickel		
Prop 65 - Chemicals known to cause cancer 7440-02-0 Nickel		
7440-02-0 Nickel		
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Prop 65 - Developmental toxicity, female Substance is not listed.

Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use observed. market and use must be observed. Substance is not liste

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. International with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department Date of preparation/Revision: Print date, revision date and version number are in the header of each page.
Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transport Association
ENECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials lidentification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
ED50: US percent
PBT: Persistent, Bioaccumulative and Toxic
SYHC: Substances of Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
IMP: Nearican Safety and Health Administration (USA)
IMP: Nearican Safety and Health Administration (USA)
IARC: International Safety and Health Administration (USA)
IARC: International Safety and Health Administration (USA)
IARC: International Agency for Research on Cancer
EPAR: Environmental Protection Agency (USA)
Stin Sens. 1: Skin sensitisation – Category 1
Carc: 2: Carcinogenicity – Category 2
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1