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

1.1. Product identifier

Product form : Substance
Trade name/designation : Nickel (Massive)
Chemical name : Nickel
EC Index : 028-002-00-7
EC-No. : 231-111-4
CAS-No. : 7440-02-0
REACH registration No : 01-2119438727-29

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use, Consumer use
Use of the substance/mixture : Metals
Further information: see exposure scenarios attached to this safety data sheet.

1.2.2. Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

Trafigura Ventures V.B.V.
Evert van de Beekstraat 1-82
The Base, Tower B - 5th Floor
1118 CL Schiphol - The Netherlands
T +31 20 504 1800
TrafiguraReach@trafigura.com

1.4. Emergency telephone number

Emergency number : +32 3 575 03 30
This telephone number is available 24 hours per day, 7 days per week.

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	+353 1 809 21 66 (public, 8am - 10pm, 7/7) +353 01 809 2566 (Professionals, 24/7)
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, 24/7, healthcare professionals only)


SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin Sens. 1 H317
Carc. 2 H351
STOT RE 1 H372

Full text of H statements : see section 16

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2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word : 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.

Precautionary statements (CLP) : P201 - Obtain special instructions before use.
P260 - Do not breathe dust.
P264 - Wash Skin thoroughly after handling.
P280 - Wear eye protection, face protection, protective clothing, protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P314 - Get medical advice/attention if you feel unwell.

Listed in Annex VI : EC Index-No. : 028-002-00-7

2.3. Other hazards

Other hazards : PBT/vPvB data. This substance does not meet the PBT/vPvB criteria of REACH, annex XIII. This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substances


Substance name : Nickel (Massive)
CAS-No. : 7440-02-0
EC-No. : 231-111-4
EC Index : 028-002-00-7

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nickel	(CAS-No.) 7440-02-0 (EC-No.) 231-111-4 (EC Index) 028-002-00-7	100	Skin Sens. 1, H317 Carc. 2, H351 STOT RE 1, H372
Nickel oxide	(CAS-No.) 11099-02-8 (EC-No.) 234-323-5 (EC Index) 028-003-00-2	< 1	Skin Sens. 1, H317 Carc. 1A, H350i STOT RE 1, H372 Aquatic Chronic 4, H413

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice	: Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance. Symptoms may be delayed. Treat symptomatically. In case of doubt or persistent symptoms, consult always a physician.
Inhalation	: Provide fresh air. Keep at rest. In case of shortness of breath, give oxygen. In case of doubt or persistent symptoms, consult always a physician.
Skin contact	: After contact with skin, wash immediately with plenty of water and soap. If symptoms persist, call a physician.
Eyes contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
Ingestion	: Call a physician or poison control centre immediately.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	: Toxic: danger of serious damage to health by prolonged exposure through inhalation. Asthma . Fumes : Pneumonia. The following symptoms may occur: Lung tissue affection/degeneration.
Skin contact	: May produce an allergic reaction. Rash. The following symptoms may occur:
Eyes contact	: No adverse effects are expected. Dust may cause painful eye irritation and tearing.
Ingestion	: No adverse effects are expected.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: dry extinguishing powder.
Unsuitable extinguishing media	: Water, CO2.

5.2. Special hazards arising from the substance or mixture

Specific hazards	: Burning produces noxious and toxic fumes. Hazardous decomposition products NiOx.
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5.3. Advice for firefighters

Firefighting instructions	: Special protective equipment for firefighters. In case of fire: Wear self-contained breathing apparatus. Use water spray or fog for cooling exposed containers. Evacuate personnel to a safe area. Do not allow run-off from fire-fighting to enter drains or water courses.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel


For non-emergency personnel	: Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe dust. Avoid contact with skin, eyes and clothing. Avoid dust formation.
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6.1.2. For emergency responders

For emergency responders	: Ensure procedures and training for emergency decontamination and disposal are in place.
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6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up mechanically and collect in suitable container for disposal. Dispose of contaminated materials in accordance with current regulations.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Avoid contact with skin and eyes. Do not breathe vapours/dust. Avoid dust formation. Take any precaution to avoid mixing with combustibles... See also section 10. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time).

Hygiene measures : Keep good industrial hygiene. Wash hands and face before breaks and immediately after handling of the product. When using do not eat, drink or smoke. Separate working clothes from town clothes. Take off contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a dry, cool and well-ventilated place. Keep container tight closed. Do not store near or with any of the incompatible materials listed in section 10.

Packaging materials : Keep only in the original container.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters


Nickel (7440-02-0)		
Austria	TEL TRK (mg/m ³)	0,5 mg/m ³ (dust, inhalable fraction)
Belgium	Limit value (mg/m ³)	1 mg/m ³
Bulgaria	OEL TWA (mg/m ³)	0,05 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	0,5 mg/m ³
Czech Republic	Expoziční limity (PEL) (mg/m ³)	0,5 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	0,05 mg/m ³ (dust and powder)
Estonia	OEL TWA (mg/m ³)	0,5 mg/m ³
Finland	HTP-arvo (8h) (mg/m ³)	0,01 mg/m ³ (respirable)
France	VME (mg/m ³)	1 mg/m ³ 1 mg/m ³ (metal gratings)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	0,006 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-respirable fraction)
Greece	OEL TWA (mg/m ³)	1 mg/m ³
Hungary	MK-érték	0,1 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	0,5 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	1,5 mg/m ³ (calculated)
Latvia	OEL TWA (mg/m ³)	0,05 mg/m ³
Lithuania	IPRV (mg/m ³)	0,5 mg/m ³

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Nickel (7440-02-0)		
Poland	NDS (mg/m ³)	0,25 mg/m ³
Portugal	OEL TWA (mg/m ³)	1,5 mg/m ³ (inhalable fraction)
Romania	OEL TWA (mg/m ³)	0,1 mg/m ³
Romania	OEL STEL (mg/m ³)	0,5 mg/m ³
Slovenia	OEL TWA (mg/m ³)	0,5 mg/m ³ (inhalable fraction)
Slovenia	OEL STEL (mg/m ³)	2 mg/m ³ (inhalable fraction)
Spain	VLA-ED (mg/m ³)	1 mg/m ³ (manufacturing, commercialization and use restrictions according to REACH)
Sweden	nivågränsvärde (NVG) (mg/m ³)	0,5 mg/m ³ (total dust)
United Kingdom	WEL TWA (mg/m ³)	0,5 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	1,5 mg/m ³ (calculated)
Norway	Grenseverdier (AN) (mg/m ³)	0,05 mg/m ³
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	0,15 mg/m ³ (value calculated)
Switzerland	MAK (mg/m ³)	0,5 mg/m ³ (inhalable dust)
Australia	TWA (mg/m ³)	1 mg/m ³
Canada (Quebec)	VEMP (mg/m ³)	1 mg/m ³
USA - ACGIH	ACGIH TWA (mg/m ³)	1,5 mg/m ³ (inhalable particulate matter)
USA - IDLH	US IDLH (mg/m ³)	10 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	0,015 mg/m ³
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	1 mg/m ³

Nickel oxide (11099-02-8)		
Latvia	OEL TWA (mg/m ³)	0,05 mg/m ³
Lithuania	IPRV (mg/m ³)	0,1 mg/m ³
Slovenia	OEL TWA (mg/m ³)	0,5 mg/m ³ (inhalable fraction)
Slovenia	OEL STEL (mg/m ³)	2 mg/m ³ (inhalable fraction)

Nickel (Massive) (7440-02-0)	
DNEL/DMEL (workers)	
Acute - systemic effects, inhalation	680 mg/m ³ (MMAD <12µm)
Acute - local effects, inhalation	4 mg/m ³ (MMAD =1,5µm)
Long-term - local effects, dermal	0,07 mg/cm ²
Long-term - systemic effects, inhalation	0,05 mg/m ³ Inhalable fraction
Long-term - local effects, inhalation	0,05 mg/m ³ Inhalable fraction
DNEL/DMEL (general population)	
Acute - systemic effects, inhalation	408 mg/m ³
Acute - local effects, inhalation	2,4 mg/m ³
Long-term - systemic effects, oral	0,012 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,00002 mg/m ³
Long-term - local effects, dermal	0,07 mg/cm ²
Long-term - local effects, inhalation	0,00002 mg/m ³
PNEC (water)	
PNEC aqua (freshwater)	2,6 - 21,8 µg/L
PNEC aqua (marine water)	8,6 µg/L
PNEC (soil)	

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Nickel (Massive) (7440-02-0)	
PNEC soil	29,9 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	0,12 - 4,6 mg/kg bw/day (Mammals)
PNEC (STP)	
PNEC sewage treatment plant	0,33 mg/l


8.2. Exposure controls

Engineering measure(s)	: Use only in area provided with appropriate exhaust ventilation. Provide adequate ventilation to minimize dust and/or vapour concentrations. Avoid dust formation. Organisational measures to prevent /limit releases, dispersion and exposure. See also section 7 .
Personal protective equipment	: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hand protection	: Wear chemically resistant gloves (tested to EN374) . The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
Eye protection	: Not required for normal conditions of use. In case of dust production: protective goggles. Safety glasses (EN 166).
Body protection	: Overalls, apron and boots recommended.
Respiratory protection	: Respirator must be worn if exposed to dust. Full face mask (EN 136) (EN 136). Half-face mask (DIN EN 140) (EN 140). Filter type: P (EN 143)/ BP (EN 141). In the case of hazardous fumes, wear self contained breathing apparatus. (EN12472, EN12941)
Thermal hazard protection	: Use dedicated equipment. Protective gloves against thermal risks (EN407).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Solid.
Colour	: Grey.
Odour	: odourless.
Odour threshold	: No data available
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: 1455 °C
Freezing point	: No data available
Initial boiling point and boiling range	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not applicable
Flammability (solid, gas)	: Non flammable
Vapour pressure	: Not applicable
Vapour density	: Not applicable
Relative density	: 8,9 g/cm ³ @25°C
Solubility	: Water: Insoluble

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Partition coefficient n-octanol/water : Not applicable
 Kinematic viscosity : No data available
 Dynamic viscosity : No data available
 Explosive properties : Not applicable.
 Oxidising properties : Not applicable.
 Explosive limits : Not applicable

9.2. Other information

Additional information : Not applicable =>. Justification for data waiving :. other justification

SECTION 10: Stability and reactivity

10.1. Reactivity

Reference to other sections: 10.5.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

Exothermic reaction with strong acids. Release of: Hydrogen (H₂). H₂ Vapours may form explosive mixture with air.

10.4. Conditions to avoid

Avoid dust formation. See also section 7. Handling and storage.

10.5. Incompatible materials

Acids. Strong oxidizing agents. See also section 7. Handling and storage.

10.6. Hazardous decomposition products

Possible decomposition products are: NiOx.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met.)

Nickel (7440-02-0)	
LD50/oral/rat	> 9000 mg/kg
LC50/inhalation/4h/rat	> 10,2 mg/l (Exposure time: 1 h)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met.)
pH: Not applicable

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met.)
pH: Not applicable

Respiratory or skin sensitisation : May cause an allergic skin reaction.
Epidemiological studies showing allergic contact dermatitis caused by the substance.

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met.)


Carcinogenicity : Suspected of causing cancer.
There is no evidence that these findings are relevant to humans.

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met.)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met.)

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

Nickel (Massive) (7440-02-0)	
LOAEC, Inhalation	0,1 mg/m ³ ((MMAD=1,8µm, GSD=2,4))

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Nickel (Massive) (7440-02-0)	
NOAEL	2,2 mg/kg bw/day (as Ni Sulphate hexahydrate)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met.)

Other adverse effects : Suspected of causing cancer.

Other information : Symptoms related to the physical, chemical and toxicological characteristics.
Reference to other sections: 4.2.

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties : Ecological injuries are not known or expected under normal use.

Nickel (7440-02-0)	
LC50 fish 1	> 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
EC50 Daphnia 1	> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	1,3 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
EC50 Daphnia 2	1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

12.2. Persistence and degradability

Nickel (Massive) (7440-02-0)	
Persistence and degradability	Not applicable.

12.3. Bioaccumulative potential

Nickel (Massive) (7440-02-0)	
Bioconcentration factor (BCF)	< 500
Partition coefficient n-octanol/water	Not applicable

12.4. Mobility in soil

Nickel (Massive) (7440-02-0)	
Ecology - soil	No data available.

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

Additional information : Do not allow to enter into surface water or drains

SECTION 13: Disposal considerations


13.1. Waste treatment methods

Product/Packaging disposal recommendations : Handle with care. Safe handling: see section 7. Dispose of as hazardous waste in compliance with local and national regulations. Refer to manufacturer/supplier for information on recovery/recycling.

Additional information : Dispose of contaminated materials in accordance with current regulations.

Further ecological information : Should not be released into the environment.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : Classified as hazardous waste according to European Union regulations. Waste codes should be assigned by the user based on the application for which the product was used.

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SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

27. Nickel	Nickel (Massive) - Nickel
28. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Carcinogen category 1A or 1B (Table 3.1) or Carcinogen category 1 or 2 (Table 3.2) and listed as follows: Carcinogen category 1A (Table 3.1)/Carcinogen category 1 (Table 3.2) listed in Appendix 1 Carcinogen category 1B (Table 3.1)/Carcinogen category 2 (Table 3.2) listed in Appendix 2	Nickel oxide

Nickel (Massive) is not on the REACH Candidate List

Nickel (Massive) is not on the REACH Annex XIV List

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15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 1, low hazard to waters (ID No. 7616)
 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

TA Luft : Total dust

Netherlands

Waterbezwaarlijkheid : 5 - Very toxic to aquatic organisms B (5)
 SZW-lijst van kankerverwekkende stoffen : The substance is not listed
 SZW-lijst van mutagene stoffen : The substance is not listed
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
 Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

1		Modified	
2		Modified	
15		Modified	
16		Modified	


Abbreviations and acronyms:

	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)
	vPvB = very persistent and very bioaccumulating
	persistent, bioaccumulating and toxic (PBT).

Sources of key data used to compile the datasheet : <http://ecb.jrc.ec.europa.eu> CSR.

Full text of H- and EUH-statements:

Aquatic Chronic 4	Hazardous to the aquatic environment - chronic hazard category 4
Carc. 1A	Carcinogenicity (inhalation) Category 1A
Carc. 2	Carcinogenicity, Category 2
Skin Sens. 1	Skin sensitisation, hazard category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H317	May cause an allergic skin reaction.

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H350i	May cause cancer by inhalation.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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