

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

### 1.1. Product identifier

|                |                                       |
|----------------|---------------------------------------|
| Product form   | : Substance                           |
| Substance name | : Nickel Oxide Granular 0.85 to 1.7mm |
| Chemical name  | : nickel monoxide                     |
| EC Index-No.   | : 028-003-00-2                        |
| EC-No.         | : 215-215-7                           |
| CAS-No.        | : 1313-99-1                           |
| Product code   | : B1034                               |
| Formula        | : NiO                                 |
| Product group  | : End product                         |

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

#### 1.2.1. Relevant identified uses

|                              |                        |
|------------------------------|------------------------|
| Main use category            | : Professional use     |
| Use of the substance/mixture | : Laboratory chemicals |
| Function or use category     | : Laboratory chemicals |

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Elemental Microanalysis Ltd  
1 Hameldown Road  
Okehampton, Devon, EX20 1UB  
GB United Kingdom  
T +44 1837 54446  
[enquiries@microanalysis.co.uk](mailto:enquiries@microanalysis.co.uk), <https://www.elementalmicroanalysis.com/>

### 1.4. Emergency telephone number

Emergency number : +44 (0) 7990 767375

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

|   |      |
|---|------|
| Skin sensitisation, Category 1                                    | H317 |
| Carcinogenicity, Category 1A                                      | H350 |
| Specific target organ toxicity – Repeated exposure, Category 1    | H372 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 3 | H412 |
| Full text of H- and EUH-statements: see section 16                |      |

#### Adverse physicochemical, human health and environmental effects

May cause cancer. Causes damage to organs through prolonged or repeated exposure. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

GHS08

Signal word (CLP) :

Danger

# Nickel Oxide Granular 0.85 to 1.7mm

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

|                                |  |
|--------------------------------|--|
| Hazard statements (CLP)        | : H317 - May cause an allergic skin reaction.<br>H350 - May cause cancer.<br>H372 - Causes damage to organs through prolonged or repeated exposure.<br>H412 - Harmful to aquatic life with long lasting effects.   |
| Precautionary statements (CLP) | : P201 - Obtain special instructions before use.<br>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.<br>P308+P313 - IF exposed or concerned: Get medical advice/attention.<br>P314 - Get medical advice/attention if you feel unwell.<br>P321 - Specific treatment (see supplemental first aid instruction on this label). |

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

|                |                                       |
|----------------|---------------------------------------|
| Substance type | : Mono-constituent                    |
| Name           | : Nickel Oxide Granular 0.85 to 1.7mm |
| CAS-No.        | : 1313-99-1                           |
| EC-No.         | : 215-215-7                           |
| EC Index-No.   | : 028-003-00-2                        |

| Name            | Product identifier  | %   | Classification according to Regulation (EC) No. 1272/2008 [CLP]                     |
|-----------------|---|-----|---|
| NICKEL MONOXIDE | CAS-No.: 1313-99-1<br>EC-No.: 215-215-7<br>EC Index-No.: 028-003-00-2 | 100 | Carc. 1A, H350i<br>STOT RE 1, H372<br>Skin Sens. 1, H317<br>Aquatic Chronic 4, H413 |

Full text of H- and EUH-statements: see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : IF exposed or concerned: Get medical advice/attention.   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.   |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.   |

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

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |
|-------------------------------------|--|

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

Treat symptomatically.

# Nickel Oxide Granular 0.85 to 1.7mm

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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### SECTION 5: Firefighting measures

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#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapours/spray.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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

Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

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### SECTION 7: Handling and storage

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#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

Hygiene measures : Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

#### 7.3. Specific end use(s)

No additional information available

# Nickel Oxide Granular 0.85 to 1.7mm

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

| Nickel Oxide Granular 0.85 to 1.7mm (1313-99-1)           |  |
|---|--|
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b> |  |
| Local name  | Nickel monoxide, nickel(II) oxide  |
| IOEL TWA  | 0.005 mg/m <sup>3</sup> (respirable fraction)<br>0.01 mg/m <sup>3</sup> (inhalable fraction) |
| Remark  | (Year of adoption 2011)  |
| Regulatory reference                                      | SCOEL Recommendations  |
| <b>EU - Biological Limit Value (BLV)</b>                  |  |
| Local name  | Nickel monoxide, nickel(II) oxide  |
| Regulatory reference                                      | SCOEL List of recommended health-based BLVs and BGVs   |
| <b>NICKEL MONOXIDE (1313-99-1)</b>                        |  |
| <b>EU - Indicative Occupational Exposure Limit (IOEL)</b> |  |
| Local name  | Nickel monoxide, nickel(II) oxide  |
| IOEL TWA  | 0.005 mg/m <sup>3</sup> (respirable fraction)<br>0.01 mg/m <sup>3</sup> (inhalable fraction) |
| Remark  | (Year of adoption 2011)  |
| Regulatory reference                                      | SCOEL Recommendations  |
| <b>EU - Biological Limit Value (BLV)</b>                  |  |
| Local name  | Nickel monoxide, nickel(II) oxide  |
| Regulatory reference                                      | SCOEL List of recommended health-based BLVs and BGVs   |

##### 8.1.2. Recommended monitoring procedures

No additional information available

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

| Nickel Oxide Granular 0.85 to 1.7mm (1313-99-1) |                            |
|---|----------------------------|
| <b>DNEL/DMEL (Workers)</b>                      |                            |
| Acute - local effects, inhalation               | 18.9 mg/m <sup>3</sup>     |
| Long-term - local effects, dermal               | 0.012 mg/cm <sup>2</sup>   |
| Long-term - systemic effects, inhalation        | 0.05 mg/m <sup>3</sup>     |
| Long-term - local effects, inhalation           | 0.05 mg/m <sup>3</sup>     |
| <b>DNEL/DMEL (General population)</b>           |                            |
| Acute - systemic effects, oral                  | 0.37 mg/kg bodyweight/day  |
| Acute - local effects, inhalation               | 1.8 mg/m <sup>3</sup>      |
| Long-term - systemic effects, oral              | 0.013 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation        | 60 ng/m <sup>3</sup>       |
| Long-term - local effects, inhalation           | 60 ng/m <sup>3</sup>       |

# Nickel Oxide Granular 0.85 to 1.7mm

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Nickel Oxide Granular 0.85 to 1.7mm (1313-99-1) |                 |
|---|-----------------|
| <b>PNEC (Water)</b>                             |                 |
| PNEC aqua (freshwater)                          | 7.1 µg/l        |
| PNEC aqua (marine water)                        | 8.6 µg/l        |
| PNEC aqua (intermittent, freshwater)            | 0 µg/l          |
| PNEC aqua (intermittent, marine water)          | 0 µg/l          |
| <b>PNEC (Sediment)</b>                          |                 |
| PNEC sediment (freshwater)                      | 109 mg/kg dwt   |
| PNEC sediment (marine water)                    | 109 mg/kg dwt   |
| <b>PNEC (Soil)</b>                              |                 |
| PNEC soil                                       | 29.9 mg/kg dwt  |
| <b>PNEC (Oral)</b>                              |                 |
| PNEC oral (secondary poisoning)                 | 0.12 mg/kg food |
| <b>PNEC (STP)</b>                               |                 |
| PNEC sewage treatment plant                     | 0.33 mg/l       |

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

# Nickel Oxide Granular 0.85 to 1.7mm

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### SECTION 9: Physical and chemical properties

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

|   |   |
|---|---|
| Physical state                                  | : Solid   |
| Colour  | : Not available                                 |
| Molecular mass                                  | : 74.69 g/mol Source: ECHA                      |
| Odour   | : Not available                                 |
| Odour threshold                                 | : Not available                                 |
| Melting point                                   | : 1955 °C Source: ECHA                          |
| Freezing point                                  | : Not applicable                                |
| Boiling point                                   | : Not available                                 |
| Flammability                                    | : Non flammable.                                |
| Explosive limits                                | : Not applicable                                |
| Lower explosion limit                           | : Not applicable                                |
| Upper explosion limit                           | : Not applicable                                |
| Flash point                                     | : Not applicable                                |
| Auto-ignition temperature                       | : 400 °C Source: ECHA                           |
| Decomposition temperature                       | : Not available                                 |
| pH  | : Not available                                 |
| pH solution                                     | : Not available                                 |
| Viscosity, kinematic                            | : Not applicable                                |
| Solubility                                      | : Water: 0 g/l at 20°C pH: 6.4~7.4 Source: ECHA |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                                 |
| Vapour pressure                                 | : 0 mm Hg at 68°F Source: CAMEO                 |
| Vapour pressure at 50°C                         | : Not available                                 |
| Density   | : Not available                                 |
| Relative density                                | : 6.75 Type: 'relative density' Temp.: 21 °C    |
| Relative vapour density at 20°C                 | : Not applicable                                |
| Particle size                                   | : Not available                                 |

#### 9.2. Other information

##### 9.2.1. Information with regard to physical hazard classes

No additional information available

##### 9.2.2. Other safety characteristics

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Nickel Oxide Granular 0.85 to 1.7mm

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

#### Nickel Oxide Granular 0.85 to 1.7mm (1313-99-1)

|                                   |                            |
|-----------------------------------|----------------------------|
| LD50 oral rat                     | > 11000 mg/kg Source: ECHA |
| LC50 Inhalation - Rat (Dust/Mist) | > 5.08 mg/l Source: ECHA   |

#### NICKEL MONOXIDE (1313-99-1)

|                                   |                            |
|-----------------------------------|----------------------------|
| LD50 oral rat                     | > 11000 mg/kg Source: ECHA |
| LC50 Inhalation - Rat (Dust/Mist) | > 5.08 mg/l Source: ECHA   |

|                                   |  |
|-----------------------------------|--|
| Skin corrosion/irritation         | : Not classified                       |
| Serious eye damage/irritation     | : Not classified                       |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity            | : Not classified                       |
| Carcinogenicity                   | : May cause cancer.                    |

#### Nickel Oxide Granular 0.85 to 1.7mm (1313-99-1)

|            |                            |
|------------|----------------------------|
| IARC group | 1 - Carcinogenic to humans |
|------------|----------------------------|

#### NICKEL MONOXIDE (1313-99-1)

|            |                            |
|------------|----------------------------|
| IARC group | 1 - Carcinogenic to humans |
|------------|----------------------------|

|                        |   |
|------------------------|---|
| Reproductive toxicity  | : Not classified  |
| STOT-single exposure   | : Not classified  |
| STOT-repeated exposure | : Causes damage to organs through prolonged or repeated exposure. |

#### NICKEL MONOXIDE (1313-99-1)

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

|                   |                  |
|-------------------|------------------|
| Aspiration hazard | : Not classified |
|-------------------|------------------|

#### Nickel Oxide Granular 0.85 to 1.7mm (1313-99-1)

|                      |                |
|----------------------|----------------|
| Viscosity, kinematic | Not applicable |
|----------------------|----------------|

#### NICKEL MONOXIDE (1313-99-1)

|                      |                |
|----------------------|----------------|
| Viscosity, kinematic | Not applicable |
|----------------------|----------------|

#### 11.2. Information on other hazards

No additional information available

### SECTION 12: Ecological information

#### 12.1. Toxicity

|   |  |
|---|--|
| Ecology - general   | : Harmful to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified                                     |
| Hazardous to the aquatic environment, long-term (chronic) | : Harmful to aquatic life with long lasting effects. |
| Not rapidly degradable                                    |  |

#### Nickel Oxide Granular 0.85 to 1.7mm (1313-99-1)

|                 |                        |
|-----------------|------------------------|
| LC50 - Fish [1] | 15.3 mg/l Source: ECHA |
|-----------------|------------------------|

# Nickel Oxide Granular 0.85 to 1.7mm

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### NICKEL MONOXIDE (1313-99-1)

LC50 - Fish [1]

15.3 mg/l Source: ECHA

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods

HP Code

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

: HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.

HP7 - "Carcinogenic:" waste which induces cancer or increases its incidence

HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.

HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

## SECTION 14: Transport information

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

| ADR                                     | IMDG          | IATA          | ADN           | RID           |
|---|---------------|---------------|---------------|---------------|
| <b>14.1. UN number or ID number</b>     |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.2. UN proper shipping name</b>    |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available  |               |               |               |               |



# Nickel Oxide Granular 0.85 to 1.7mm

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

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

##### REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

##### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

##### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

##### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

Listed as carcinogen on NTP (National Toxicology Program)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the Canadian DSL (Domestic Substances List)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# Nickel Oxide Granular 0.85 to 1.7mm

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### SECTION 16: Other information

#### Abbreviations and acronyms:

|         |   |
|---------|---|
| ADN     | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR     | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE     | Acute Toxicity Estimate   |
| BCF     | Bioconcentration factor   |
| BLV     | Biological limit value  |
| BOD     | Biochemical oxygen demand (BOD)   |
| COD     | Chemical oxygen demand (COD)  |
| DMEL    | Derived Minimal Effect level  |
| DNEL    | Derived-No Effect Level   |
| EC-No.  | European Community number   |
| EC50    | Median effective concentration  |
| EN      | European Standard   |
| IARC    | International Agency for Research on Cancer   |
| IATA    | International Air Transport Association   |
| IMDG    | International Maritime Dangerous Goods  |
| LC50    | Median lethal concentration   |
| LD50    | Median lethal dose  |
| LOAEL   | Lowest Observed Adverse Effect Level  |
| NOAEC   | No-Observed Adverse Effect Concentration  |
| NOAEL   | No-Observed Adverse Effect Level  |
| NOEC    | No-Observed Effect Concentration  |
| OECD    | Organisation for Economic Co-operation and Development  |
| OEL     | Occupational Exposure Limit   |
| PBT     | Persistent Bioaccumulative Toxic  |
| PNEC    | Predicted No-Effect Concentration   |
| RID     | Regulations concerning the International Carriage of Dangerous Goods by Rail                    |
| SDS     | Safety Data Sheet   |
| STP     | Sewage treatment plant  |
| ThOD    | Theoretical oxygen demand (ThOD)  |
| TLM     | Median Tolerance Limit  |
| VOC     | Volatile Organic Compounds  |
| CAS-No. | Chemical Abstract Service number  |
| N.O.S.  | Not Otherwise Specified   |
| vPvB    | Very Persistent and Very Bioaccumulative  |
| ED      | Endocrine disruptor   |

#### Full text of H- and EUH-statements:

|                   |   |
|-------------------|---|
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
|-------------------|---|

# Nickel Oxide Granular 0.85 to 1.7mm

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Full text of H- and EUH-statements:

|                   |   |
|-------------------|---|
| Aquatic Chronic 4 | Hazardous to the aquatic environment – Chronic Hazard, Category 4 |
| Carc. 1A          | Carcinogenicity, Category 1A                                      |
| H317              | May cause an allergic skin reaction.                              |
| H350              | May cause cancer.   |
| H350i             | May cause cancer by inhalation.                                   |
| H372              | Causes damage to organs through prolonged or repeated exposure.   |
| H412              | Harmful to aquatic life with long lasting effects.                |
| H413              | May cause long lasting harmful effects to aquatic life.           |
| Skin Sens. 1      | Skin sensitisation, Category 1                                    |
| STOT RE 1         | Specific target organ toxicity – Repeated exposure, Category 1    |

The classification complies with : ATP 12

Safety Data Sheet (SDS)\_EMAL, EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.