

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

**1.1. Product identifier**

|                    |   |   |
|--------------------|---|---|
| Product form       | : | Substance   |
| Trade name         | : | NICKEL (II) HYDROXIDE AR  |
| EC Index-No.       | : | 028-008-00-X  |
| EC-No.             | : | 235-008-5   |
| CAS-No.            | : | 12054-48-7  |
| Product code       | : | 04877   |
| Type of product    | : | Inorganic compound  |
| Formula            | : | Ni(OH)2   |
| Chemical structure | : |  |

|          |   |                                 |
|----------|---|---------------------------------|
| Synonyms | : | Nickel hydroxide, Theophrastite |
|----------|---|---------------------------------|

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

**1.2.1. Relevant identified uses**

|                              |   |   |
|------------------------------|---|---|
| Use of the substance/mixture | : | Manufacture of substances<br>Laboratory chemicals |
|------------------------------|---|---|

**1.2.2. Uses advised against**

No additional information available

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

LOBA CHEMIE PVT.LTD.  
 107 Wode House Road, Jehangir Villa, Colaba  
 400005 Mumbai  
 INDIA  
 T +91 22 6663 6663, F +91 22 6663 6699  
[info@lobachemie.com](mailto:info@lobachemie.com), [www.lobachemie.com](http://www.lobachemie.com)

**1.4. Emergency telephone number**

|                  |   |                                      |
|------------------|---|--------------------------------------|
| Emergency number | : | + 91 22 6663 6663 (9:00am - 6:00 pm) |
|------------------|---|--------------------------------------|

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

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

|   |       |
|---|-------|
| Acute toxicity (oral), Category 4                                 | H302  |
| Acute toxicity (inhalation:dust,mist) Category 4                  | H332  |
| Skin corrosion/irritation, Category 2                             | H315  |
| Respiratory sensitisation, Category 1                             | H334  |
| Skin sensitisation, Category 1                                    | H317  |
| Germ cell mutagenicity, Category 2                                | H341  |
| Carcinogenicity (inhalation) Category 1A                          | H350i |
| Reproductive toxicity, Category 1B                                | H360D |
| Specific target organ toxicity – Repeated exposure, Category 1    | H372  |
| Hazardous to the aquatic environment – Acute Hazard, Category 1   | H400  |
| Hazardous to the aquatic environment – Chronic Hazard, Category 1 | H410  |

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

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### Adverse physicochemical, human health and environmental effects

May cause cancer. Suspected of causing genetic defects. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Harmful if inhaled. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Very toxic 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

GHS09

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H302+H332 - Harmful if swallowed or if inhaled.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H341 - Suspected of causing genetic defects.

H350i - May cause cancer by inhalation.

H360D - May damage the unborn child.

H372 - Causes damage to organs through prolonged or repeated exposure.

H410 - Very toxic to aquatic life with long lasting effects.

: P202 - Do not handle until all safety precautions have been read and understood.

P273 - Avoid release to the environment.

P280 - Wear protective clothing, eye protection, face protection, protective gloves.

P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

Precautionary statements (CLP)

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type : Mono-constituent

| Name                  | Product identifier   | %   |
|-----------------------|--|-----|
| NICKEL (II) HYDROXIDE | CAS-No.: 12054-48-7<br>EC-No.: 235-008-5<br>EC Index-No.: 028-008-00-X | 100 |

### 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. Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

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.

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First-aid measures after ingestion : Rinse mouth. 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 inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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

Symptoms/effects after eye contact : None under normal conditions. Dust from this product may cause eye irritation.

Symptoms/effects after ingestion : None under normal conditions.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : No fire hazard.

Explosion hazard : No direct explosion hazard.

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

### 5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

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

## SECTION 6: Accidental release measures

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

General measures : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

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".

Emergency procedures : Evacuate unnecessary personnel.

### 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

For containment : Collect spillage.

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

#### 7.1. Precautions for safe handling

Additional hazards when processed

Precautions for safe handling

- : Not expected to present a significant hazard under anticipated conditions of normal use.
- : 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.
- : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Hygiene measures

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

Technical measures

- : Keep in a cool, well-ventilated place away from heat.

Storage conditions

- : Store locked up.

Packaging materials

- : Store always product in container of same material as original container.

#### Switzerland

Storage class (LK)

- : LK 6.1 - Toxic materials

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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

No additional information available

##### 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

No additional information available

##### 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:

Wear recommended personal protective equipment.

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### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Chemical goggles or safety glasses

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear a mask

##### Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

Wear appropriate mask. [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.

## SECTION 9: Physical and chemical properties

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

|   |  |
|---|--|
| Physical state                                  | : Solid  |
| Colour  | : Green.   |
| Appearance                                      | : Crystalline powder.  |
| Molecular mass                                  | : 92.71 g/mol  |
| Odour   | : Odourless.   |
| Odour threshold                                 | : Not available  |
| Melting point                                   | : 230 °C   |
| Freezing point                                  | : Not applicable   |
| Boiling point                                   | : Not available  |
| Flammability                                    | : Non flammable.   |
| Lower explosion limit                           | : Not applicable   |
| Upper explosion limit                           | : Not applicable   |
| Flash point                                     | : Not applicable   |
| Auto-ignition temperature                       | : > 400 °C   |
| Decomposition temperature                       | : 200 °C   |
| pH  | : Not available  |
| pH solution                                     | : Not available  |
| Viscosity, kinematic                            | : Not applicable   |
| Solubility                                      | : Water: 0.1 g/l at 20°C - OECD Test Guideline 105 - Insoluble |
| Partition coefficient n-octanol/water (Log Kow) | : Not available  |
| Vapour pressure                                 | : Not available  |
| Vapour pressure at 50°C                         | : Not available  |
| Density   | : 4.1 g/cm³  |
| Relative density                                | : Not available  |
| Relative vapour density at 20°C                 | : Not applicable   |
| Particle size                                   | : Not available  |

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### 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.

## SECTION 11: Toxicological information

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

|                                   |   |
|-----------------------------------|---|
| Acute toxicity (oral)             | : Harmful if swallowed.   |
| Acute toxicity (dermal)           | : Not classified  |
| Acute toxicity (inhalation)       | : Inhalation:dust,mist: Harmful if inhaled.   |
| Skin corrosion/irritation         | : Causes skin irritation.   |
| Serious eye damage/irritation     | : Not classified  |
| Respiratory or skin sensitisation | : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. |
| Germ cell mutagenicity            | : Suspected of causing genetic defects.   |
| Carcinogenicity                   | : May cause cancer by inhalation.   |
| Reproductive toxicity             | : May damage the unborn child.  |
| STOT-single exposure              | : Not classified  |
| STOT-repeated exposure            | : Causes damage to organs through prolonged or repeated exposure.   |
| Aspiration hazard                 | : Not classified  |

### NICKEL (II) HYDROXIDE AR (12054-48-7)

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

### 11.2. Information on other hazards

No additional information available

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### SECTION 12: Ecological information

#### 12.1. Toxicity

|   |   |
|---|---|
| Ecology - general   | : Very toxic to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute)  | : Very toxic to aquatic life.                           |
| Hazardous to the aquatic environment, long-term (chronic) | : Very toxic to aquatic life with long lasting effects. |

#### 12.2. Persistence and degradability

##### NICKEL (II) HYDROXIDE AR (12054-48-7)

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

#### 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

|  |   |
|--|---|
| Regional waste regulation                  | : Disposal must be done according to official regulations.  |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.                           |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.  |
| Product/Packaging disposal recommendations | : Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations. |
| Additional information                     | : Do not re-use empty containers.   |

### SECTION 14: Transport information

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

#### 14.1. UN number or ID number

|               |           |
|---------------|-----------|
| UN-No. (ADR)  | : UN 3077 |
| UN-No. (IMDG) | : UN 3077 |
| UN-No. (IATA) | : UN 3077 |
| UN-No. (ADN)  | : UN 3077 |
| UN-No. (RID)  | : UN 3077 |

#### 14.2. UN proper shipping name

|                             |  |
|-----------------------------|--|
| Proper Shipping Name (ADR)  | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Proper Shipping Name (IMDG) | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| Proper Shipping Name (IATA) | : Environmentally hazardous substance, solid, n.o.s. |
| Proper Shipping Name (ADN)  | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |

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|                                       |   |
|---------------------------------------|---|
| Proper Shipping Name (RID)            | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  |
| Transport document description (ADR)  | : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (NICKEL (II) HYDROXIDE), 9, III, (-) |
| Transport document description (IMDG) | : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE POLLUTANT            |
| Transport document description (IATA) | : UN 3077 Environmentally hazardous substance, solid, n.o.s. (NICKEL (II) HYDROXIDE), 9, III      |
| Transport document description (ADN)  | : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III                              |
| Transport document description (RID)  | : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III                              |

### 14.3. Transport hazard class(es)

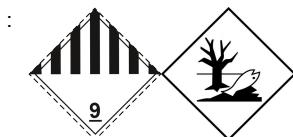
#### ADR

Transport hazard class(es) (ADR)

: 9

Danger labels (ADR)

: 9



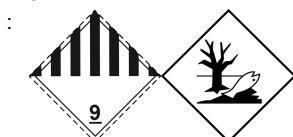
#### IMDG

Transport hazard class(es) (IMDG)

: 9

Danger labels (IMDG)

: 9



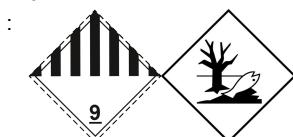
#### IATA

Transport hazard class(es) (IATA)

: 9

Danger labels (IATA)

: 9



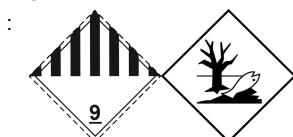
#### ADN

Transport hazard class(es) (ADN)

: 9

Danger labels (ADN)

: 9



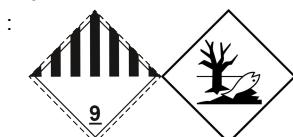
#### RID

Transport hazard class(es) (RID)

: 9

Danger labels (RID)

: 9



### 14.4. Packing group

|                      |       |
|----------------------|-------|
| Packing group (ADR)  | : III |
| Packing group (IMDG) | : III |
| Packing group (IATA) | : III |
| Packing group (ADN)  | : III |
| Packing group (RID)  | : III |

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### 14.5. Environmental hazards

|                               |   |  |
|-------------------------------|---|--|
| Dangerous for the environment | : | Yes                                    |
| Marine pollutant              | : | Yes                                    |
| Other information             | : | No supplementary information available |

### 14.6. Special precautions for user

#### Overland transport

|   |   |   |
|---|---|---|
| Classification code (ADR)   | : | M7  |
| Special provisions (ADR)  | : | 274, 335, 375, 601  |
| Limited quantities (ADR)  | : | 5kg   |
| Excepted quantities (ADR)   | : | E1  |
| Packing instructions (ADR)  | : | P002, IBC08, LP02, R001   |
| Special packing provisions (ADR)  | : | PP12, B3  |
| Mixed packing provisions (ADR)  | : | MP10  |
| Portable tank and bulk container instructions (ADR)                     | : | T1, BK1, BK2, BK3   |
| Portable tank and bulk container special provisions (ADR)               | : | TP33  |
| Tank code (ADR)   | : | SGAV, LGBV  |
| Vehicle for tank carriage   | : | AT  |
| Transport category (ADR)  | : | 3   |
| Special provisions for carriage - Packages (ADR)                        | : | V13   |
| Special provisions for carriage - Bulk (ADR)                            | : | VC1, VC2  |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : | CV13  |
| Hazard identification number (Kemler No.)                               | : | 90  |
| Orange plates   | : |  |
| Tunnel restriction code (ADR)   | : | -   |
| EAC code  | : | 2Z  |

#### Transport by sea

|                                   |   |                         |
|-----------------------------------|---|-------------------------|
| Special provisions (IMDG)         | : | 274, 335, 966, 967, 969 |
| Limited quantities (IMDG)         | : | 5 kg                    |
| Excepted quantities (IMDG)        | : | E1                      |
| Packing instructions (IMDG)       | : | LP02, P002              |
| Special packing provisions (IMDG) | : | PP12                    |
| IBC packing instructions (IMDG)   | : | IBC08                   |
| IBC special provisions (IMDG)     | : | B3                      |
| Tank instructions (IMDG)          | : | BK1, BK2, BK3, T1       |
| Tank special provisions (IMDG)    | : | TP33                    |
| EmS-No. (Fire)                    | : | F-A                     |
| EmS-No. (Spillage)                | : | S-F                     |
| Stowage category (IMDG)           | : | A                       |
| Stowage and handling (IMDG)       | : | SW23                    |

#### Air transport

|  |   |                             |
|--|---|-----------------------------|
| PCA Excepted quantities (IATA)               | : | E1                          |
| PCA Limited quantities (IATA)                | : | Y956                        |
| PCA limited quantity max net quantity (IATA) | : | 30kgG                       |
| PCA packing instructions (IATA)              | : | 956                         |
| PCA max net quantity (IATA)                  | : | 400kg                       |
| CAO packing instructions (IATA)              | : | 956                         |
| CAO max net quantity (IATA)                  | : | 400kg                       |
| Special provisions (IATA)                    | : | A97, A158, A179, A197, A215 |
| ERG code (IATA)                              | : | 9L                          |

#### Inland waterway transport

|                           |   |                    |
|---------------------------|---|--------------------|
| Classification code (ADN) | : | M7                 |
| Special provisions (ADN)  | : | 274, 335, 375, 601 |

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|                                       |  |
|---------------------------------------|--|
| Limited quantities (ADN)              | : 5 kg   |
| Excepted quantities (ADN)             | : E1   |
| Carriage permitted (ADN)              | : T* B**   |
| Equipment required (ADN)              | : PP, A  |
| Number of blue cones/lights (ADN)     | : 0  |
| Additional requirements/Remarks (ADN) | : * Only in the molten state. ** For carriage in bulk see also 7.1.4.1. *** Only in the case of transport in bulk. |

### Rail transport

|   |                           |
|---|---------------------------|
| Classification code (RID)   | : M7                      |
| Special provisions (RID)  | : 274, 335, 375, 601      |
| Limited quantities (RID)  | : 5kg                     |
| Excepted quantities (RID)   | : E1                      |
| Packing instructions (RID)  | : P002, IBC08, LP02, R001 |
| Special packing provisions (RID)  | : PP12, B3                |
| Mixed packing provisions (RID)  | : MP10                    |
| Portable tank and bulk container instructions (RID)                     | : T1, BK1, BK2, BK3       |
| Portable tank and bulk container special provisions (RID)               | : TP33                    |
| Tank codes for RID tanks (RID)  | : SGAV, LGBV              |
| Transport category (RID)  | : 3                       |
| Special provisions for carriage – Packages (RID)                        | : W13                     |
| Special provisions for carriage – Bulk (RID)                            | : VC1, VC2                |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW13, CW31              |
| Colis express (express parcels) (RID)                                   | : CE11                    |
| Hazard identification number (RID)                                      | : 90                      |

## 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)

| EU restriction list (REACH Annex XVII) |                          |
|--|--------------------------|
| Reference code                         | Applicable on            |
| 28.                                    | NICKEL (II) HYDROXIDE AR |
| 30.                                    | NICKEL (II) HYDROXIDE AR |

##### 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)

##### Dual-Use Regulation (428/2009)

Not listed on the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

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### 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

#### France

| Occupational diseases |   |
|-----------------------|---|
| Code                  | Description   |
| RG 37                 | Professional skin disorders caused by oxides and nickel salts |
| RG 37 BIS             | Respiratory disorders caused by oxides and nickel salts       |

#### Germany

|  |  |
|--|--|
| Employment restrictions                        | : Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).   |
| Water hazard class (WGK)                       | : WGK 3, Highly hazardous to water (Classification according to AwSV; ID No. 7099).  |
| Chemicals Prohibition Ordinance (ChemVerbotsV) | : This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10). |
| Hazardous Incident Ordinance (12. BImSchV)     | : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)   |

#### Netherlands

|  |                                   |
|--|-----------------------------------|
| SZW-lijst van kankerverwekkende stoffen            | : NICKEL (II) HYDROXIDE is listed |
| SZW-lijst van mutagene stoffen                     | : The substance is not listed     |
| SZW-lijst van reprotoxische stoffen – Borstvoeding | : NICKEL (II) HYDROXIDE is listed |
| SZW-lijst van reprotoxische stoffen –              | : NICKEL (II) HYDROXIDE is listed |
| Vruchtbaarheid                                     |                                   |
| SZW-lijst van reprotoxische stoffen – Ontwikkeling | : NICKEL (II) HYDROXIDE is listed |

#### Denmark

|                             |   |
|-----------------------------|---|
| Danish National Regulations | : Young people below the age of 18 years are not allowed to use the product<br>Pregnant/breastfeeding women working with the product must not be in direct contact with the product |
|-----------------------------|---|

#### Switzerland

|  |           |
|--|-----------|
| Chemicals Ordinance (ChemV, SR 813.11) | : Group 2 |
|--|-----------|

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## 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)   |

# NICKEL (II) HYDROXIDE AR

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: |  |
|-----------------------------|--|
| 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 disrupting properties  |

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

|                                     |   |
|-------------------------------------|---|
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4                  |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                                 |
| Aquatic Acute 1                     | Hazardous to the aquatic environment – Acute Hazard, Category 1   |
| Aquatic Chronic 1                   | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Carc. 1A                            | Carcinogenicity (inhalation) Category 1A                          |
| H302                                | Harmful if swallowed.   |
| H315                                | Causes skin irritation.   |

# NICKEL (II) HYDROXIDE AR

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| H317                                | May cause an allergic skin reaction.                                       |
| H332                                | Harmful if inhaled.  |
| H334                                | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H341                                | Suspected of causing genetic defects.                                      |
| H350i                               | May cause cancer by inhalation.  |
| H360D                               | May damage the unborn child.   |
| H372                                | Causes damage to organs through prolonged or repeated exposure.            |
| H400                                | Very toxic to aquatic life.  |
| H410                                | Very toxic to aquatic life with long lasting effects.                      |
| Muta. 2                             | Germ cell mutagenicity, Category 2   |
| Repr. 1B                            | Reproductive toxicity, Category 1B   |
| Resp. Sens. 1                       | Respiratory sensitisation, Category 1                                      |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                                      |
| Skin Sens. 1                        | Skin sensitisation, Category 1   |
| STOT RE 1                           | Specific target organ toxicity – Repeated exposure, Category 1             |

Safety Data Sheet (SDS), 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.