



# Safety Data Sheet

According to Regulation (EC) No. 1907/2006

Printing date: 07.01.2026

Version 1

Revision date: 07.01.2026

---

## 1. Identification of the substance/mixture and of the company/ undertaking

### 1.1 Product identifier

Product name : Stainless Steel Iron-base

Trade name/product code : LayrrTool M300 - Maraging Steel M300

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

Sector of use : Additive manufacturing

Identified uses : Additive manufacturing, metal working

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

Company : We Are Nium Ltd (trading as LAYRR)  
Nanosphere HQ  
126A Olympic Avenue  
Milton Park  
OX14 4SA  
United Kingdom

### 1.4 Emergency telephone number

Emergency phone : +44 (0)870 8200418 (CHEMTREC)

---

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Respiratory. Sensitiser (Category 1) H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Muta. 2 H341 Suspected of causing genetic defects.

Carcinogen (Category 2) H351 Suspected of causing cancer. Route of exposure: Inhalation

Repr. 1B H360F May damage fertility.

STOT – RE (Category 1) H372 Causes damage to the respiratory system through prolonged or repeated exposure.

Route of exposure: Inhalation.

Skin Sensitiser (Category 1) H317 May cause an allergic skin reaction.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

Pictogram



Signal Word

Danger

### Hazard-determining components of labelling:

Nickel

Cobalt

### Hazard Statements

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

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer. Route of exposure: Inhalation.

H360F May damage fertility.

H372 Causes damage to the respiratory system through prolonged or repeated exposure.

Route of exposure: Inhalation.

### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 [In case of inadequate ventilation] wear respiratory protection.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3 Other hazards

Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

## 3. Composition/information on ingredients

### 3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

Dangerous components:

Component	Classification	Concentration
-----------	----------------	---------------

Nickel CAS: 7440-02-0 EINECS: 231-111-4 Index number: 028-002-00-7 Reg.nr.: 01-2119462838-24	Carc. 2, H351; STOT RE 1, H372; Skin Sens. 1, H317	10-25%
Cobalt CAS: 7440-48-4 EINECS: 231-158-0 Index number: 027-001-00-9 Reg.nr.: 01-2119517392-44	Resp. Sens. 1, H334; Muta. 2, H341; Repr. 1B, H360F; d~ Skin Sens. 1, H317; Aquatic Chronic 4, H413	2.5-10%
Titanium CAS: 7440-32-6 EINECS: 231-142-3 Reg.nr.: 01-2119484878-14	Pyr. Sol. 1, H250; Self-heat. 1, H251; Water-react. 1, H260	≥2.5%

Additional information: For the wording of the listed hazard phrases refer to section 16.

---

## 4. First aid measures

### 4.1 Description of first aid measures

#### General information:

Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### After inhalation

Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

#### After skin contact

Immediately wash with water and soap and rinse thoroughly.

#### After eye contact

Rinse opened eye for several minutes under running water.

#### After swallowing

If symptoms persist consult doctor.

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

No further relevant information available.

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

No further relevant information available

---

## 5. Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing agents

Special powder for metal fires. Do not use water.

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



During heating or in case of fire poisonous gases are produced. Product is not flammable. A high concentration of airborne dusts may form an explosive mixture with air.

### **5.3 Advice for firefighters**

**Protective equipment:** Mouth respiratory protective device.

---

## **6. Accidental release measures**

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

Mount respiratory protective device.

### **6.2 Environmental precautions**

Do not allow to enter sewers/ surface or ground water.

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

Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

### **6.4 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

---

## **7. Handling and storage**

### **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols. Avoid creating dust where possible.

Ensure good dust ventilation during handling. If necessary, use local exhaust ventilation. Wet mopping or HEPA vacuuming is recommended to clean up any dusts that may be generated during handling and processing.

Information about fire - and explosion protection: Keep respiratory protective device available.

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

#### **Storage conditions:**

Requirements to be met by storerooms and receptacles: Not determined.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

### **7.3 Specific end use(s):**

No further relevant information available.

---

## **8. Exposure controls/personal protection**

## 8.1 Control parameters

**Additional information about design of technical facilities:** No further data; see item 7.

### Ingredients with limit values that require monitoring at the workplace

Component	CAS No.	WEL
Nickel	7440-02-0	Long-term value: 0.5 mg/m <sup>3</sup> as Ni; Sk; Carc
Cobalt	7440-48-4	Long-term value: 0.1 mg/m <sup>3</sup> as Co; Carc, Sen

Additional information: The lists valid during the making were used as basis.

## 8.2 Exposure controls

### Personal protective equipment

#### General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.

#### Respiratory protection

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

#### Protection of hands

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye protection

Safety glasses

#### Body protection

Protective work clothing

---

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form</b>	Solid
<b>Colour</b>	Grey
<b>Odour</b>	Odourless
<b>Odour threshold</b>	Not determined
<b>pH value</b>	Not applicable.
<b>Melting point/freezing point</b>	1535°C
<b>Flash point</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not determined.
<b>Decomposition temperature</b>	Not determined.
<b>Auto-ignition temperature</b>	Product is not self-igniting.
<b>Explosive properties</b>	Not determined.
<b>Upper/lower explosive limits</b>	Not determined.
<b>Vapour pressure</b>	Not determined.
<b>Density at 20°C</b>	8.23258 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in/miscibility with water</b>	Soluble
<b>Partition coefficient: n-octanol/water</b>	Not determined.
<b>Viscosity:</b>	Dynamic: Not determined. Kinematic: Not determined.

## 9.2 Other safety information

No data available

## 10. Stability and reactivity

### 10.1 Reactivity

No further relevant information available.

### 10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No further relevant information available.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

### 10.4 Conditions to avoid

No further relevant information available.

### 10.5 Incompatible materials

No further relevant information available.

### 10.6 Hazardous decomposition products

Metal oxide fumes

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met.

**Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

**Serious eye damage/irritation**

Based on available data, the classification criteria are not met.

**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**

Suspected of causing cancer. Route of exposure: Inhalation

**Reproductive toxicity**

May damage fertility..

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

---

## 12. Ecological information

### 12.1 Toxicity

**Aquatic toxicity**

No further relevant information available.

### 12.2 Persistence and degradability

No further relevant information available.

### 12.3 Bioaccumulative potential

No further relevant information available.

### 12.4 Mobility in soil

No further relevant information available.

**Additional ecological information:**

General notes: Water hazard class 3 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms.

### 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

## 12.6 Other adverse effects

No further relevant information available.

---

## 13. Disposal considerations

### 13.1 Waste treatment methods

Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents

---

## 14. Transport information

### 14.1 UN number

ADR, ADN, IMDG, IATA

Not regulated

### 14.2 UN proper shipping name

ADR, ADN, IMDG, IATA

Not regulated

### 14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA, Class

Not regulated

### 14.4 Packing group

ADR, IMDG, IATA

Not regulated

### 14.5 Environmental hazards

Not applicable

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

UN "Model Regulation"

Not regulated

---

## 15. Regulatory information

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

**Directive 2012/18/EU**

**Named dangerous substances - ANNEX I**

None of the ingredients is listed.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.





## 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Relevant phrases

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

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer. Route of exposure: Inhalation.

H360F May damage fertility.

H372 Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.

### Department issuing SDS

Environment protection department.

### Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Pyr. Sol. 1: Pyrophoric solids – Category 1

Self-heat. 1: Self-heating substances and mixtures – Category 1

Water-react. 1: Substances and mixtures which in contact with water emit flammable gases – Category 1

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 2: Germ cell mutagenicity – Category 2

Carc. 2: Carcinogenicity – Category 2

Repr. 1B: Reproductive toxicity – Category 1B

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4