



## Safety Data Sheet

According to Regulation (EC) No. 1907/2006

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

#### 1.1 Product identifier

Product name : Aluminium base  
Trade name/product code : LayrrAlum 10

#### 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)

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### 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

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

The product is not classified, according to the GB CLP regulation.

#### 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

Void

Signal Word Void

#### Hazard Statements

Void

#### Precautionary statements

Void

### 2.3 Other hazards

Results of PBT and vPvB assessment

PBT : Not applicable.  
vPvB : Not applicable.

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## 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
Aluminium CAS: 7429-90-5 EINECS: 231-072-3	substance with a Community workplace exposure limit	50-100%
Silicon CAS: 7440-21-3 EINECS: 231-130-8 Reg.nr.: 01-2119480401-47	Flam. Sol. 2, H228	≥2.5-≤25%

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

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## 4. First aid measures

### 4.1 Description of first aid measures

#### After inhalation

Supply fresh air; consult doctor in case of complaints.

#### After skin contact

Generally the product does not irritate the skin.

#### 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

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## 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

Product is not flammable. A high concentration of airborne dusts may form an explosive mixture with air.

## 5.3 Advice for firefighters

**Protective equipment:** No special measures required.

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## 6. Accidental release measures

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

Not required.

### 6.2 Environmental precautions

No special measures required.

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

Pick up mechanically.

### 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

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## 7. Handling and storage

### 7.1 Precautions for safe handling

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:** Not determined.

### 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: None.

### 7.3 Specific end use(s):

No further relevant information available.

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## 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.	
Aluminium	7429-90-5	TWA: Long-term value: 10 mg/m <sup>3</sup> Inhalable Dust
Silicon	7440-21-3	WEL: Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust

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

## 8.2 Exposure controls

### Personal protective equipment

#### General protective and hygienic measures

Wash hands before breaks and at the end of work.

#### 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

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## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form	Powder
Colour	Grey
Odour	Odourless

<b>Odour threshold</b>	Not determined
<b>pH value</b>	Not applicable
<b>Melting point/freezing point</b>	Undetermined
<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 applicable.
<b>Density</b>	Not determined.
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<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

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## 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

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## 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 an allergic skin reaction.

**Germ cell mutagenicity**

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

**Carcinogenicity**

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

**Reproductive toxicity**

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

**STOT-single exposure**

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

**STOT-repeated exposure**

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

**Aspiration hazard**

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

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**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: Not hazardous for water.

**12.5 Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

**12.6 Other adverse effects**

No further relevant information available.

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**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.

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### **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

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### **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.

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### **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**



H228 Flammable solid.

**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

Flam. Sol. 2: Flammable solids – Category 2