

# Aluminium

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

### 1.1 Product identifier

Product name:	Aluminium
CAS Number:	7429-90-5
EC Number:	231-072-3

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

Identified use: Laboratory chemicals, manufacture of substances

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

Company name:	East Harbour Group Ltd 20 Clough Road, Severalls Industrial Park Colchester, Essex, CO4 9QS United Kingdom
Telephone:	+44 (0) 333 242 0100
Email:	<a href="mailto:info@eastharbourgroup.com">info@eastharbourgroup.com</a>

### 1.4 Emergency telephone number

Emergency telephone: 0800 246 1274

## Section 2: Hazardous identification

### 2.1 Classification of the substance or mixture

The product has been subjected to the test method N.1 described in the UN Manual of Tests and Criteria Test method for readily flammable solid. The product is not classified as Class 4.1 flammable solid for transport. The product has been subjected to the test method N.5 described in the Manual of Tests and Criteria Test method for substances which, in contact with water emit flammable gases. The product is not classified as a substance which in contact with water emits flammable gas. It is not classified as Class 4.3 for transport. The product is not classified according to the CLP regulation.

### 2.2 Label elements

No labelling required

### 2.3 Other hazards

PBT: Not applicable

vPvB: Not applicable

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## Section 3: Composition/information on ingredients

### 3.2 Mixtures

CAS #	Content (W/W)	Ingredients
7429-90-5	99.7%	aluminium
7440-21-3	0.1%	silicon

Chemical name: Aluminium

Common name / synonyms: Aluminium

## Section 4: First aid measures

### 4.1 Description of first aid measures

In case of skin contact: Generally, the product does not irritate the skin.

In case of eye contact: Rinse opened eye for several minutes under running water.

If swallowed: Do not induce vomiting, call for medical help immediately. Drink plenty of water and provide fresh air. Call for a doctor immediately.

If inhaled: Supply fresh air, consult doctor in case of complaints.

### 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.

## Section 5: Fire-fighting measures

### 5.1 Fire Fighting Media and Instructions:

Suitable extinguishing media: Extinguishing powder. Do not use water.

Unsuitable extinguishing media: Water

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

The release of accumulated dust from the ceiling beams, eaves and roof can cause fires and secondary explosions.

### 5.3 Advice for firefighters

Special protective equipment: Wear suitable PPE.

Special precautions: No specific advice.

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## Section 6: Accidental release measures

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

Avoid formation of dust. Keep away from ignition source. Where required wear suitable respiratory protective device against the effects of fume/dust/aerosol.

### 6.2 Environmental precautions

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

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

Pick up mechanically. Do not flush with water or aqueous cleansing agents. Any deposits of dust on the shelves, flat surfaces, and overhead beams, which cannot be avoided must be removed regularly. Do not allow dust to accumulate.

## Section 7: Handling and storage

### 7.1 Precautions for safe handling

Store in cool, dry place in tightly closed receptacles. Prevent the formation of dust clouds. Prevent formation of dust. Any deposits of dust on the shelves, flat surfaces and overhead beams, which cannot be avoided must be removed regularly. Do not allow deposits to accumulate.

Information about fire and explosion protection:

Dust can combine with air to form an explosive mixture. Keep ignition away from source. Do not smoke. Protect against electrostatic charges. Use explosion-proof apparatus / fittings and spark-proof tools. Reaction with water liberates extremely flammable gas (hydrogen).

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

Store in a dry location. Do not store together with acids. Do not store together with alkalis (caustic solutions). Store away from oxidising agents. Store away from water.

## Section 8: Exposure controls/personal protection

### 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
<b>7429-90-5 aluminium</b>	
WEL	Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
<b>7440-21-3 silicon</b>	
WEL	Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust

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## 8.2 Exposure controls

General industrial hygiene practice.

## 8.3 Personal protective equipment

Practice good hygiene. Keep away from food and drink. Avoid contact with eyes and skin.

**Skin protection:** Wear suitable protection.

**Eye protection:** Wear suitable eye protection.

**Respiratory protection:** Adequate protection measures must be used to maintain exposure levels below stated limits.

**Risk management measures:** it may be necessary to undertake a programme of exposure monitoring. Where practical exposure levels should be controlled using extraction systems.

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Silver grey
<b>Physical State</b>	Powder
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	Not applicable
<b>pH</b>	Not applicable
<b>Melting Point/Range</b>	~660 C
<b>Boiling Point/Range</b>	~2467 C
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Product is not flammable
<b>Explosion Limits</b>	Not applicable
<b>Vapor Pressure</b>	Not applicable
<b>Vapor Density</b>	Not applicable
<b>Specific Gravity / Density</b>	Density at 20 C: ~6.9 g/cm3
<b>Bulk Density</b>	No information available
<b>Water Solubility</b>	Insoluble
<b>Solubility in other solvents</b>	No information available
<b>Partition Coefficient</b>	Not applicable
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	Not applicable

## Section 10: Stability and Reactivity

### 10.1 Reactivity

No further relevant information available.

### 10.2 Chemical Stability

Thermal decomposition/conditions to avoid: No decomposition if used according to specifications

### 10.3 Possibility of hazardous reactions

Contact with water releases flammable gases. Contact with acid releases flammable gases. Contact with alkalis releases

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## 10.4 Conditions to avoid

flammable gases. Reacts with halogenated compounds reacts with oxidising agents.

## 10.5 Incompatible materials

No further relevant information available

## 10.6 Hazardous decomposition products

Water, acids, alkalis, halogenated compounds, oxidising agents  
No dangerous decomposition products known

## Section 11: Toxicological Information

### Product Information

#### 11.1 Toxicological effects:

**Acute toxicity:** Based on available data, the classification criteria are not met.

#### Primary irritant effect:

**Skin corrosion/irritation:** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation:** Powder may have irritating effect

**Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.

#### CMR effects (carcinogenic, mutagenicity and toxicity for reproduction)

**Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

**Carcinogenetic:** 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.

## Section 12: Ecological Information

### 12.1 Toxicity

#### Ecotoxicity effects

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability:** No further relevant information available.

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

**Results of PBT and vPvB assessment:** Not applicable.

**Other adverse effects:** No further relevant information available.

## Section 13: Disposal considerations

### 13.1 Waste treatment methods

**Recommendation:** Disposal of waste should be undertaken in accordance with appropriate national and local regulations.

**European waste catalogue:** 12 01 04 Non-ferrous metal dust and particles.

**Uncleaned packaging recommendation:** Disposal must be made according to official regulations.

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## Section 14: Transport Information

UN-Number: Not relevant

ADR, IMDG, IATA: Not relevant

UN proper shipping name: Not relevant

Transport hazard classes: Not relevant

Packing group: Not relevant

Environmental hazards (marine pollutant): No

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

## Section 15: Regulatory Information

National regulations:

Other regulations, limitations and prohibitive regulations: Not applicable

Substances of very high concern (SVHC) according to REACH, Article 57: The product does not contain substances of very high concern