

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Substance
Name : Aluminium
EC no : 231-072-3
CAS No : 7429-90-5
REACH registration No : 01-2119529243-45

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 : Raw material for chemistry
Metallurgy
Aluminothermy

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ECOLANIC SOLUTIONS, S.L.U.
Poligono Industrial el Pla, 19
46290- Alcacer -Valencia (Spain)
T +34 961 22 93 65
compras@ecolanic.es

1.4. Emergency telephone number

ECOLANIC SOLUTIONS, S.L.U. : +34 961 22 93 65

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice. Presents no particular risk to the environment, provided the disposal requirements (see section 13) and national or local regulations are complied with. Not classified as flammable according to EC criteria, but may present a risk in the event of a fire.

2.2. Label elements

Not subjected.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients**3.1. Substance**

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Aluminium (Main constituent)	(CAS No) 7429-90-5 (EC no) 231-072-3 (REACH-no) 01-2119529243-45	> 99	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Aluminium (Main constituent)	(CAS No) 7429-90-5 (EC no) 231-072-3 (REACH-no) 01-2119529243-45	> 99	Not classified

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Full text of R- and H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : In case of inhalation of fumes of molten material or dust: Move the affected person away from the contaminated area and into the fresh air. Give artificial respiration if necessary.
- First-aid measures after skin contact : Remove all contaminated clothing and footwear. Rinse with plenty of water. If case of redness or irritation, call a doctor.
- First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Ask for medical advice.

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

- Symptoms/injuries after inhalation : Cough.
- Symptoms/injuries after eye contact : Dust may cause slight irritation to the ocular mucous membranes due to the presence of a foreign body.

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 : Special powder against metallic fire (Class D). Dry sand. Alumina.
- Unsuitable extinguishing media : Water. Carbon dioxide. ABC powder.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Not classified as flammable according to EC criteria, but may present a risk in the event of a fire.
- Hazardous decomposition products in case of fire : Contact with water liberates highly flammable gases (H₂).

5.3. Advice for firefighters

- Firefighting instructions : Contain the extinguishing fluids by bunding. Do not breathe fumes.
- 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

6.1.1. For non-emergency personnel

- Emergency procedures : Do not attempt to take action without suitable protective equipment.

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

Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Recover mechanically the product. Gather the product and place it in a spare container that has been suitably labelled. Dispose of materials or solid residues at an authorized site. Do not use water for cleaning.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Take precautionary measures against static discharge. Use non-sparking tools.
- Hygiene measures : Do not drink, eat or smoke in the workplace.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep in a well-ventilated room. Keep container dry.
- Incompatible materials : Water. Acids. Strong oxidizing agents. Bases. Alkaline earth metals. Alcohols.
- Packaging materials : Polyethylene. Common metals. Paper.

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Extraction to remove dust at its source.
Hand protection	: Protective gloves. The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374. Breakthrough time : refer to the recommendations of the supplier.
Eye protection	: Safety glasses.
Skin and body protection	: Protective clothing.
Respiratory protection	: Dust production: dust mask with filter type P1. In the event of contact with molten product : Self-contained breathing apparatus.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Silver grey.
Odour	: Odourless.
Odour threshold	: Not applicable
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: Not applicable
Melting point	: 660 °C
Freezing point	: Not applicable
Boiling point	: > 2000 °C
Flash point	: Not applicable
Self ignition temperature	: ~ 500 °C
Decomposition temperature	: Not applicable
Flammability (solid, gas)	: Non flammable
Vapour pressure	: Not applicable
Relative vapour density at 20 °C	: Not applicable
Relative density	: No data available
Density	: 700 - 1500 kg/m ³ (Bulk density: 2700)
Solubility	: Water: Insoluble
Log Pow	: Not applicable
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: Dust may form explosive mixture in air.
Oxidising properties	: Non oxidizing material according to EC criteria.
Explosive limits	: See annex 1 according to granulometry

9.2. Other information

: The coating can limit the explosivity (stearic acid or soap)

SECTION 10: Stability and reactivity

10.1. Reactivity

Wet air oxidation.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

Dust may form explosive mixture in air.

10.4. Conditions to avoid

Water. Moisture. warm surfaces. Open flame. Avoid raising powdered material due to explosion hazard.

10.5. Incompatible materials

Acids. Oxidizing materials. Strong bases. Alkaline earth metals. Alcohols. Halogenated compounds.

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10.6. Hazardous decomposition products

Contact with water liberates flammable gases (H₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

ATOMIZED ALUMINIUM GRANULES (7429-90-5)	
LD50 oral rat	> 2000 mg/kg
LC50 inhalation rat	> 0,888 mg/l/4h (OECD 403)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: Not applicable

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
Dust may cause slight irritation to the ocular mucous membranes due to the presence of a foreign body
pH: Not applicable

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

Specific target organ toxicity (single exposure) : Not classified (Based on available data, the classification criteria are not met)

ATOMIZED ALUMINIUM GRANULES (7429-90-5)	
NOAEL (inhalation, rat, dust/mist/fume)	10 mg/m ³

Specific target organ toxicity (repeated exposure) : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Technical impossibility to obtain the data)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : To our knowledge, the product does not present any particular risk.

12.2. Persistence and degradability

ATOMIZED ALUMINIUM GRANULES (7429-90-5)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

ATOMIZED ALUMINIUM GRANULES (7429-90-5)	
Log Pow	Not applicable

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

ATOMIZED ALUMINIUM GRANULES (7429-90-5)	
Results of PBT assessment	The product does not meet the PBT and vPvB classification criteria

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Conform to current legislation, regulations and orders.

Additional information : Empty the packaging completely prior to disposal. The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.

SECTION 14: Transport information

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

14.1. UN number

No dangerous good in sense of transport regulations

14.2. UN proper shipping name

Not applicable

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14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.6.4. Inland waterway transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

No REACH Annex XVII restrictions

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

Not required

SECTION 16: Other information

Indication of changes:

This sheet was updated (refer to the date at the top of this page). This sheet has been revised completely (changes were not marked).

Data sources : CSR (Chemical safety report).

Other information : This safety data sheet has been written in conformity with the Annex II of the Regulation (EC) 1907/2006 (REACH).

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