

Globally Harmonized System of Classification and Labelling of  
Chemicals (GHS)

## Kalkstein/Aluminium Mischung Type 110

Version 3.0

Revision Date 11.09.2024

Print Date 02.12.2024

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

#### 1.1 Product identifier

Trade name : Kalkstein/Aluminium Mischung Type 110  
Material number : 040165E50

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

This information is not available.

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

Company : ECKART GmbH  
Guentersthal 4  
91235 Hartenstein  
Telephone : +499152770  
Telefax : +499152777008  
E-mail address : [msds.eckart@altana.com](mailto:msds.eckart@altana.com)  
Responsible/issuing person

#### 1.4 Emergency telephone number

**NCEC:**

(contract no.: ECKART29003-NCEC)

+44 1235 239671 (Middle East/Africa, call and response in your language)

+1 215 207 0061 (Americas, call and response in your language)

+65 3158 1074 (Asia-Pacific, call and response in your language)

### SECTION 2: Hazards identification

**GHS Classification**

Not a dangerous substance according to GHS.

**GHS-Labeling**

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Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

### Hazardous components which must be listed on the label

### Other hazards which do not result in classification

Combustible Solids

## SECTION 3: Composition/information on ingredients

Substance No. :

### Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
aluminium	7429-90-5 231-072-3	Flam. Sol.;1;H228	1 - 10

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Move the victim to fresh air.  
Do not leave the victim unattended.
- If inhaled : Remove to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water.
- In case of eye contact : Remove contact lenses.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.

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Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

This information is not available.

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

This information is not available.

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**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media : Dry sand, Special powder against metal fire

Unsuitable extinguishing media : ABC powder, Carbon dioxide (CO<sub>2</sub>), Water, Foam

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

Specific hazards during firefighting : Contact with water liberates extremely flammable gas (hydrogen).

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.  
Evacuate personnel to safe areas.

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Avoid dust formation.

**6.2 Environmental precautions**

General advice : The product should not be allowed to enter drains, water courses or the soil.  
No special environmental precautions required.

This information is not available.

**6.3 Methods and materials for containment and cleaning up**

Methods for cleaning up : Use mechanical handling equipment.  
Do not use a vacuum cleaner.  
Pick up and arrange disposal without creating dust.  
Sweep up and shovel.  
Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

This information is not available.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : Avoid dust formation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.  
Store away from heat.

For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures : General industrial hygiene practice.

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

Requirements for storage : Electrical installations / working materials must comply with

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areas and containers	the technological safety standards.
Further information on storage conditions	: Protect from humidity and water.
Advice on common storage	: Do not store together with oxidizing and self-igniting products. Never allow product to get in contact with water during storage. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.  No materials to be especially mentioned.
Other data	: Keep in a dry place. No decomposition if stored and applied as directed.

**7.3 Specific end use(s)**

This information is not available.

**SECTION 8: Exposure controls/personal protection**
**8.1 Control parameters**
**Germany:**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium	7429-90-5	AGW (Inhalable fraction)	10 mg/m <sup>3</sup>	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
aluminium	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m <sup>3</sup>	2021-07-02	DE TRGS 900

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Peak-limit: excursion factor (category)	2;(II)
Further information	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child

### United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
Limestone	1317-65-3	TWA (Respirable)	5 mg/m <sup>3</sup>	2005-09-01	
Limestone	1317-65-3	TWA (total)	10 mg/m <sup>3</sup>	2005-09-01	
Limestone	1317-65-3	TWA (total dust)	15 mg/m <sup>3</sup>	2007-01-01	
Limestone	1317-65-3	TWA (respirable fraction)	5 mg/m <sup>3</sup>	2007-01-01	
Limestone	1317-65-3	TWA (Total dust)	15 mg/m <sup>3</sup>	1989-01-19	
Limestone	1317-65-3	TWA (respirable dust fraction)	5 mg/m <sup>3</sup>	1989-01-19	
Limestone	1317-65-3	TWA (Respirable)	5 mg/m <sup>3</sup>	2013-10-08	
Limestone	1317-65-3	TWA (total)	10 mg/m <sup>3</sup>	2013-10-08	
Limestone	1317-65-3	PEL (Total dust)	10 mg/m <sup>3</sup>	2014-11-26	
Limestone	1317-65-3	PEL (respirable dust fraction)	5 mg/m <sup>3</sup>	2014-11-26	
aluminium	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	2012-07-01	
aluminium	7429-90-5	TWA (Respirable)	5 mg/m <sup>3</sup>	2013-10-08	
aluminium	7429-90-5	TWA (total dust)	15 mg/m <sup>3</sup>	2012-07-01	
aluminium	7429-90-5	TWA (total)	10 mg/m <sup>3</sup>	2013-10-08	
aluminium	7429-90-5	TWA (respirable fraction)	5 mg/m <sup>3</sup>	2012-07-01	
aluminium	7429-90-5	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01	
aluminium	7429-90-5	PEL (Total dust)	10 mg/m <sup>3</sup>	2014-11-26	
aluminium	7429-90-5	PEL (respirable dust fraction)	5 mg/m <sup>3</sup>	2014-11-26	
aluminium	7429-90-5	TWA (Respirable)	1 mg/m <sup>3</sup>	2008-01-01	

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		particulate matter)			
aluminium	7429-90-5	TWA	5 mg/m <sup>3</sup>	2005-09-01	
aluminium	7429-90-5	TWA (Total)	15 mg/m <sup>3</sup>	1989-01-19	
aluminium	7429-90-5	TWA (Respirable fraction)	5 mg/m <sup>3</sup>	1989-01-19	
aluminium	7429-90-5	TWA (total dust)	15 mg/m <sup>3</sup>	2011-07-01	
aluminium	7429-90-5	TWA (respirable fraction)	5 mg/m <sup>3</sup>	2011-07-01	
aluminium	7429-90-5	TWA (Total dust)	15 mg/m <sup>3</sup>	1989-01-19	
aluminium	7429-90-5	TWA (respirable dust fraction)	5 mg/m <sup>3</sup>	1989-01-19	
aluminium	7429-90-5	TWA (welding fumes)	5 mg/m <sup>3</sup>	2013-10-08	
aluminium	7429-90-5	TWA (pyro powders)	5 mg/m <sup>3</sup>	2013-10-08	
aluminium	7429-90-5	TWA (Respirable particulate matter)	1 mg/m <sup>3</sup>	2013-03-01	
aluminium	7429-90-5	TWA (Fumes)	5 mg/m <sup>3</sup>	1989-01-19	
aluminium	7429-90-5	PEL (Welding fumes)	5 mg/m <sup>3</sup>	2017-10-02	
aluminium	7429-90-5	PEL (Pyro powders)	5 mg/m <sup>3</sup>	2017-10-02	
aluminium	7429-90-5	TWA (powder)	5 mg/m <sup>3</sup>	1989-01-19	

**8.2 Exposure controls**
**Personal protective equipment**

Eye protection : Safety glasses

Hand protection

Material : Protective gloves

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

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The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

The exact break through time can be obtained from the protective glove producer and this has to be observed.

- Skin and body protection : Long sleeved clothing  
 : Protective suit
- Respiratory protection : Use suitable breathing protection if workplace concentration requires.  
 Breathing apparatus with filter.  
 P1 filter
- : No personal respiratory protective equipment normally required.

**Environmental exposure controls**

- General advice : The product should not be allowed to enter drains, water courses or the soil.  
 : No special environmental precautions required.

**SECTION 9: Physical and chemical properties**
**9.1 Information on basic physical and chemical properties**

- Appearance : powder
- Colour : grey
- Odour : characteristic
- pH : 7 - 9, (25 °C)
- Melting point/range : > 600 °C
- Boiling point/boiling range : Not applicable
- Flash point :  
 Not applicable



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Bulk density	: No data available
Flammability (solid, gas)	: Combustible Solids
Auto-flammability	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Density	: 2,7 g/cm <sup>3</sup> (ca. 20 °C)
Solubility(ies)	
Water solubility	: < 0,016 g/l (20 °C)
Miscibility with water	: immiscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available

**9.2 Other information**

No data available

**SECTION 10: Stability and reactivity****10.1 Reactivity**

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No decomposition if stored and applied as directed.

**10.2 Chemical stability**

No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : Contact with acids and alkalis may release hydrogen.

Stable under recommended storage conditions.

Dust may form explosive mixture in air.

**10.4 Conditions to avoid**

Conditions to avoid : No data available

**10.5 Incompatible materials**

Materials to avoid : Acids  
Bases  
Oxidizing agents  
Water

**10.6 Hazardous decomposition products**

Hazardous decomposition products :

Other information : No data available

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

No data available

**Skin corrosion/irritation**

No data available

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### Serious eye damage/eye irritation

No data available

### Respiratory or skin sensitisation

No data available

### Carcinogenicity

No data available

### Toxicity to reproduction/fertility

No data available

### Reprod.Tox./Development/Teratogenicity

No data available

### STOT - single exposure

No data available

### STOT - repeated exposure

No data available

### Aspiration toxicity

No data available

### Further information

#### Product

No data available

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### SECTION 12: Ecological information

#### 12.1 Toxicity

No data available

#### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Other adverse effects

**Product:**

Additional ecological information : No data available

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

**SECTION 14: Transport information****14.1 UN number****ADR**

Not dangerous goods

**TDG**

Not dangerous goods

**CFR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**14.2 Proper shipping name****ADR**

Not dangerous goods

**TDG**

Not dangerous goods

**CFR**

Not dangerous goods

**IMDG**

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Not dangerous goods

**IATA**

Not dangerous goods

**14.3 Transport hazard class****ADR**

Not dangerous goods

**TDG**

Not dangerous goods

**CFR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**14.4 Packing group****ADR**

Not dangerous goods

**TDG**

Not dangerous goods

**CFR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**14.5 Environmental hazards**

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### 14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

No data available

## SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Banned and/or restricted (aluminium powder (stabilised))

### 15.2 Chemical safety assessment

No data available

## SECTION 16: Other information

### Full text of H-Statements

H228 : Flammable solid.

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