

## SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

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

#### 1.1. Product identifier

Trade name: InnoMetal Aluminium

Other names: -

MSDS name: EN\_InnoMetal\_MSDS\_Aluminium

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

1.2.1. Application of the substance / the mixture

Additional component

1.2.2. Applications advised against

No further relevant information available.

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

##### InnoMetal GmbH

Einsteinstr. 12

D-33104 Paderborn

Fon: +49 (0)221 9582011

info@innometal.de

#### 1.4. Emergency telephone number

Monday - Friday, 9:00 am - 4:00 pm

+49 (0)221 958 2011

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not applicable.

Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

#### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

The substance is not subject to classification according to EU lists and other sources of literature known to us.

Hazard pictograms:-

Signal word: -

Hazard statements: -

Precautionary statements: -

#### 2.3. Other hazards

Risk of dust explosion.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Description: Alloy of substances listed below.

Components:

CAS	EINECS	Chemical name	from %	till %	Hazard pictograms	R phrases	Index Number
7429-90-5	231-072-3	Aluminium	81	99	substance with a Community workplace exposure limit	-	01-2119529243-45

7440-50-8	231-159-6	Copper	0	5	N	R50/53	01-2119480154-42
7440-21-3	231-130-8	Silicon	0	16	-	-	
7439-95-4	231-104-6	Magnesium	0	6	-	-	01-2119537203-49
7440-32-6	7440-32-6	Titanium	0	0,5	-	-	

Labelling (CLP):

CAS	EINECS	Chemical name	Hazard pictograms	Signal word	Hazard statements
7429-90-5	231-072-3	Aluminium	-	Warning	H400
7440-50-8	231-159-6	Copper	GHS09	-	-
7440-21-3	231-130-8	Silicon	GHS09	Warning	H228
7439-95-4	231-104-6	Magnesium	-	-	-
7440-32-6	7440-32-6	Titanium	-	-	-

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

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

If symptoms persist consult doctor.

After swallowing: Seek medical treatment. Rinse out mouth and then drink plenty of water.

**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: Firefighting measures**

**5.1. Extinguishing media**

Suitable extinguishing agents:

Special powder for metal fires.

Dry sand

Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents:

Water

Foam

Carbon dioxide

ABC powder

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

Contact with water releases flammable gases.

Dust can combine with air to form an explosive mixture.

Hydrogen

**5.3. Advice for firefighters**

Protective equipment: No special measures required.

**SECTION 6: Accidental release measures**

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

Avoid formation of dust.

Keep away from ignition sources.

**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

Do not use vacuum cleaner.

**6.4. Reference to other sections**

See Section 7 for information on safe handling.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Precautions for safe handling: Prevent formation of dust. Any unavoidable deposit of dust must be regularly removed.

Information about fire and explosion protection: Keep ignition sources away - Do not smoke.

Protect against electrostatic charges. Dust can combine with air to form an explosive mixture.

Use explosion-proof apparatus/fittings and spark-proof tools. Contact with water releases flammable gases.

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

Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Do not store together with oxidizing and

acidic materials. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well-sealed receptacles.

**7.3. Specific end use(s)**

No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

<b>Ingredients with limit values that require monitoring at the workplace:</b>	
7429-90-5 Aluminium	
WEL	Long-term value: 10* 4** mg/m <sup>3</sup>

	*inhalable dust **respirable dust (as Metal)
7440-50-8 Copper	
WEL	Short-term value: 2** mg/m <sup>3</sup> Long-term value: 0.2* 1** mg/m <sup>3</sup> *fume **dusts and mists (as Cu)
7440-21-3 Silicon	
WEL	Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust

### 8.2. Exposure controls

Respiratory protection: Suitable respiratory protective device recommended. Filter P1/Filter P2/Filter P3

Protection of hands: Preventive skin protection by use of skin-protecting agents is recommended.



Protective gloves

Eye protection: Goggles recommended during refilling.

Body protection: Protective work clothing.

General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

General Information

Appearance:

Form: Powder

Colour: Silver-Grey coloured

Odour: Odourless

PH-value: Not applicable

Change in condition

Melting point/Melting range: 660 °C

Boiling point/Boiling range: 2467 °C

Flash point: Not applicable.

Flammability (solid, gaseous): Not determined

Ignition temperature: > 600 °C

Decomposition temperature: Not applicable

Glow temperature: > 450 °C

Self-igniting: Product is not self-igniting.

Danger of explosion: Product does not present an explosion hazard.

Dust can combine with air to form an explosive mixture.

Explosion limits:

Lower: 30 g/m<sup>3</sup>

Upper: Not determined

Vapour pressure: Not applicable

Density at 20 °C: 2.7 g/cm<sup>3</sup>

Bulk density: 0.7 - 1.5 g/cm<sup>3</sup>

Evaporation rate: Not applicable

Solubility in / Miscibility with water: Insoluble.

Partition coefficient (n-Octanol/water): Not applicable

Viscosity: Not applicable.

**9.2. Other information**

No further relevant information available.

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No further relevant information available.

**10.2. Chemical stability**

No decomposition if used and stored according to specifications.

**10.3. Possibility of hazardous reactions**

Reacts with acids, alkalis and oxidizing agents.

Risk of dust explosion.

Contact with water releases flammable gases.

**10.4. Conditions to avoid**

No further relevant information available.

**10.5. Incompatible materials**

No further relevant information available.

**10.6. Hazardous decomposition products**

No dangerous decomposition products known.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity:

Primary irritant effect:

on the skin: No irritant effect.

on the eye: No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The substance is not subject to classification according to the latest version of the EU lists.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

No further relevant information available.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Aquatic toxicity: No further relevant information available.

Terrestrial toxicity: No further relevant information available.

**12.2. Persistence and degradability**

No further relevant information available.

**12.3. Bio-accumulative potential**

No further relevant information available.

**12.4. Mobility in soil**

No further relevant information available.

Do not allow product to reach ground water, water course or sewage system.

**12.5. Results of PBT and vPvB assessment**

Not applicable.

**12.6. Other adverse effects**

No further relevant information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Recommendation

Contact manufacturer for recycling information.

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

European waste catalogue

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste Codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Uncleaned packaging:

Recommendation: Empty the contaminated packaging thoroughly. They may be recycled after thorough and proper cleaning.

## **SECTION 14: Transport information**

### **14.1. UN number**

ADR, IMDG, IATA: Void

### **14.2. UN proper shipping name**

ADR: Void

IMDG, IATA: Void

### **14.3. Transport hazard class(es)**

ADR: Void

Class: Void

Label: Void

IMDG, IATA: Void

Class: Void

### **14.4. Packing group**

ADR, IMDG, IATA: Void

### **14.5. Environmental hazards**

Marine pollutant: No.

### **14.6. Special precautions for user**

Warning: Void

Danger code (Kemler): Not applicable.

EMS number: Void

### **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

Transport/Additional information:

Not dangerous according to the above specifications.

## **SECTION 15: Regulatory information**

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

National regulations:

Water hazard class: Generally not hazardous for water.

### **15.2. Chemical safety assessment**

A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

### **16.1. Wording of R und H phrases**

Relevant phrases

(serves as the explanation for only the hazard and risk phrases noted in the MSDS, e.g. in chapter 3)

R50 Very toxic to aquatic organisms..

H228 Flammable solid.

H400 Very toxic to aquatic life.

**16.2. Further information**

The information provided in this material safety data sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warrant or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This information shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual relationship.