

MSDS : PERUNAL

PERUNAL**1 - Identification of the article and of the company:****1.1 Product identifier**Trade Name: **PERUNAL** AlZn5.5MgCu**1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the article: semi-finished product

1.3 Details of the supplier of safety data sheet

Manufacturer/Supplier:

ROBERT LAMINAGE SA

La Jaluse

CH-2400 LE LOCLE

Phone: +41 32 933 91 91**Fax:** +41 32 933 91 89E-mail/Internet: info@robertlaminage.ch www.robertlaminage.ch**1.4 Information in case of emergency:**

Tox Info Suisse

From Switzerland: call 145

From abroad: call +41 44 251 51 51

Remarks for information sheet: Semi-finished products from aluminium and aluminium-alloy are articles according to Regulation (EC) No. 1907/2006 (REACH Regulation).

For articles there is no legal obligation to issue a safety data sheet. However, to be able to provide information typically included in a safety data sheet also for articles, the present information sheet for articles has been worked out.

We expressly point out that the information sheet for articles is a voluntarily issued information sheet which is not subject to the formal requirements of the REACH Regulation.

2 - Hazards identification**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 (CLP-Regulation):

For products there is no obligation to classify acc. to CLP -Regulation.

The product is not classified according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008: Void

Hazard pictograms: Void

Signal word: Void

Hazard-determining components of labelling: Void

Hazard statements: Void

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable to metals

vPvB: Not applicable to metals.

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3 - Composition/information on ingredients

3.2. Chemical characterisation: Mixtures

Description: Metal in compact form.

Material code (DIN CEN/TS 13388:2015-08): AlZn5.5MgCu

Material number (DIN CEN/TS 13388:2015-08): 3.4365

UNS-number: -

Information:

The classifications mentioned below reflect the respective pure substance and are for information only.

Aluminium alloys are special preparations according to Regulation (EC) 1907/2006 (REACH Regulation).

The classification of a pure substance is not applicable to its use as element of an aluminium alloy.

Alloy components:				
Chemical Element	% Weight (max)	N° CAS	N° EINECS	Others information
Al	Bal.%	7429-90-5	231-072-3	Flam.Sol.1, H228; Water-react.2, H261
Fe	0.00-0.50%	7439-89-6	231-096-4	Flam. Sol. 2 H228
Cu	1.20-2.00%	7440-50-8	231-159-6	
Si	0.00-0.40%	7440-21-3	231-130-8	Flam. Sol. 2 H228
Zn	5.10-6.10%	7440-66-6	231-175-3	Pyr.Sol.1, H250; Water-react.1, H260; Aquatic Chronic1, H410
Mn	0.00-0.30%	7439-96-5	231-105-1	Water react. 1 H260
Mg	2.10-2.90%	7439-95-4	321-104-6	Pyr.Liq.1 H250; Water-react.1 H260
Cr	0.18-0.28%	7440-47-3	231-157-5	Flam. Sol. 2 H228, Carac. 2 H351
Ti	0.00-0.20%	7440-32-6	231-142-3	Pyr.Sol.1, H250

SVHC	
7440-47-3	Chromium

4 - First aid measures

4.1. Description of first aid measures

General information:

No special measures required.

First Aid information refer to any dust which is generated.

After inhalation: Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: 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.

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5 - Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Non-flammable. Use firefighting measures that suit the environment.

5.2 Special hazards arising from the substance or mixture:

No further relevant information available.

5.3 Advice for firefighters:

Protective equipment: No special measures required.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

6 - Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Not required.

6.2 Environmental precautions:

Not required.

6.3 Methods and material for containment and cleaning up:

Dispose of the material collected according to regulations.

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.

7 - Handling and storage

7.1 Precautions for safe handling:

No special measures required. · Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities:

Storage

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

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

Additional information to national classifications:
 ORRChim, 814.81 (National classification Switzerland)
 7440-47-3 chromium metal (bioavailable): Toxic (S)
 Additional information about design of technical facilities: No further data; see item 7.

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace:	
7440-66-6 Zinc	
SUVA (Switzerland)	VME 3 mg/m ³ VLE 3 mg/m ³
Ingredients with limit values that require monitoring at the workplace:	
7440-47-3 chromium	
SUVA (Switzerland)	VME 0.05mg/m ³ VLEP(8h) 0.5mg/m ³
Ingredients with limit values that require monitoring at the workplace:	
7439-96-5 manganese	
SUVA (Switzerland)	VME 0.5mg/m ³
Ingredients with limit values that require monitoring at the workplace:	
7429-90-5 Aluminium	
SUVA (Switzerland)	VME 3 mg/m ³ (B)
Ingredients with limit values that require monitoring at the workplace:	
7440-21-3 Silicium	
SUVA (Switzerland)	VME 3 mg/m ³
Additional Occupational Exposure Limit Values for possible hazards during processing:	
General dust limit (A-alveolar fraction, E-respirable fraction)	
SUVA (Switzerland)	(A) 3mg/m ³ (E) 10mg/m ³

8.2. Exposure controls

Personal protective equipment:
 General protective and hygienic measures:
 Wash hands before breaks and at the end of work.
 Do not inhale dust / smoke / mist.
 Respiratory protection:
 Use a suitable industrial gas mask when work-place-limits are exceeded.
 Protection of hands:
 Protective gloves are recommended, depending upon how the semis are further processed.
 Eye protection:
 Protective goggles are recommended, depending upon how the semis are further processed.
 Body protection:
 Wear suitable protective clothing, depending upon how the semis are further processed.

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9 - Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Solid
Colour:	Grey
Odour:	Odourless
Odour threshold:	Not determined

Change in condition

Melting point/freezing point: 475-635 °C (Lit.)

Initial boiling point and boiling range: Undetermined.

Flash point: Not applicable.

Decomposition temperature: Not determined.

Explosive properties: Product does not present an explosion hazard.

Density at 20 °C: 2,81 g/cm³ (Lit.)

Solubility in / Miscibility with water: · Not soluble.

9.2 Other information No further relevant information available.

10 - Stability and reactivity

10.1 Reactivity: Not applicable.**10.2 Chemical stability:** Not applicable.

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

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:** No dangerous decomposition products known.

11 - Toxicological information

General information:

The solid product does not pose a health hazard if handled properly.

Effect on the skin: No effects

Effect on eyes: No effects

Sensitization: No effects

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.*Date of first publication: March 2020**Date of Last Revision: March 2020 Edition*

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12.4 Mobility in soil: No further relevant information available.
 Additional ecological information
 General notes: Semi-finished articles from aluminium and aluminium-alloy are not soluble in water.

12.5 Results of PBT and vPvB assessment
 PBT: Not applicable to metals. · vPvB: Not applicable to metals.

12.6 Other adverse effects: No further relevant information available.

13 - Disposal considerations

13.1 Waste treatment methods
 Recommendation: Contact manufacturer for recycling information.

Waste disposal key:
 12 01 03: non-ferrous metal filings and turnings
 16 01 18: non-ferrous metal for non-contaminated waste

14 - Transport information

14.1 UN-Number ADR, ADN, IMDG, IATA	Void
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void
14.3 Transport hazard class(es) ADR, ADN, IMDG, IATA · Class	Void
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards:	Not applicable
14.6 Special precautions for user:	Not applicable
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable

15 - Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 Chemical safety assessment: void.
 Directive 2012/18/EU
 Named dangerous substances - ANNEX I None of the ingredients is listed.
 Waterhazard class: Generally not hazardous for water.
 Other regulations, limitations and prohibitive regulations.

Substances of very high concern (SVHC) according to REACH, Article 57	
7440-47-3	Chromium

16 - Other information

This information is based on our present. However, this shall not constitute a guarantee for any specific article features and shall not establish a legally valid contractual relationship.

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