



ESTRUSI E TRAFILATI IN ALLUMINIO
ALUMINIUM SEMI-FINISHED EXTRUDED AND DRAWN PRODUCTS
DEMI PRODUITS FILES ET ETIRES EN ALUMINIUM
GEZOGENE UND GEPRESSTE HALBZEUGE AUS ALUMINIUM
SEMIPRODUCTOS DE ALUMINIO CALIBRADOS Y EXTRUSIONADOS

SEDE LEGALE E STABILIMENTO SEMILAVORATI:
Via S. Andrea, 3 · 25038 Rovato (Brescia) Italy
Part. IVA / VAT: 00566100988 · C.F.: 00481190171
R.E.A.C.C.I.A.A. Brescia: 162925 · Cap. Soc: € 10.000.000
Telefono **0307725011** (ric aut)
Fax Amm. Contab. Clienti **0307701228** · **0307702837**
Fax Ufficio Commerciale **0307701228** · **0307702847**
Raccordo FF.SS. e Stazione Autostradale: Rovato (BS)
FONDERIA:
Via E. Mattei, 10 · 25026 Pontevico (Brescia) Italy
Tel. **0309307321** (ric.aut.) · Fax **0309930036**
Stazione autostradale: Pontevico
Sito internet: www.eural.com · email: eurall@eurall.com

NS. RIF.	VS. RIF.
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Rovato

SUBJECT: Reach declaration of absence SVHC substances.


Hereby we inform you that, according to REACH Regulation, EURAL GNUTTI SpA, is to be considered as "PRODUCER OF ARTICLES" and "DOWNSTREAM" and therefore has no obligation to register substances contained in products supplied to you.

We declare that all products delivery to you do not contain any substance included in the SVHC list (Candidate List updated to 17/01/2023), except for alloys 2011, 2007, 2030, 6026, 6064A, 6262 which contain Pb (substance included in the SVHC list) in a percentage greater than 0.1% (see "Safety Data Sheet Alloys Eural Gnutti S.p.A." in the annex). As manufacturer, we have notified to ECHA of the presence of lead in the above alloys, with notification number QL530791-26.

We assure that the materials supplied comply with the REACH regulation.

Eural Gnutti will monitor the updates of the list SHVC and communicate any changes in relation to this list.

Eural Gnutti S.p.A.
Gianfranco Cazzago
Reach Contact Person
EURAL Gnutti SpA Rovato

	MATERIAL SAFETY DATA SHEET Pursuant to Regulation (EU) 1907/2006 (as amended by Regulation (EU) No 2020/878) - Language: EN	QSMmp07.10.03E	Pag. 1 of 9
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1. Product and company identification

- 1.1. Product identification:** Trade name or designation:
Bars, tubes and profiles in aluminium wrought alloys.
Alloys: 2011, 2007, 2033, 2030, 2014, 2014A, 2017A, 2024, 2077, 6060, 6063, 6064A, 6005, 6061, 6082, 6026, 6026LF, 6262, 6262A, 7003, 7075)
- 1.2. Relevant identified uses of the substance or mixture and uses advised against:** Industrial and commercial.
Main application sectors: screw machining (products made of rods and bars), pneumatic, automotive, heat sink, hydraulic, ... (profiles)
- 1.3. Details of the supplier of the safety data sheet:** EURAL GNUTTI S.p.A.
Via Sant'Andrea No. 3
25038 Rovato (BS) - Italy
Tel. + 39.0307725011
e-mail: eural@eural.com
Information provided by: Products Safety Department
- 1.4. Emergency telephone number**
Italy:
Bergamo: +39 (0) 800 883 300, Firenze: +39 (0) 55 794 7819,
Foggia: +39 (0) 881 732 326, Genoa: +39 (0) 10 563 62 45,
Milano: +39 (0) 02 6610 1029, Padova: +39 (0) 49 827 50 78,
Pavia: +39 (0) 38 224 444, Roma: +39 (0) 06 305 43 43,
Torino: +39 (0) 011 663 7637.

2. Hazard Identification

2.1. Classification of the mixture:

Based on the classification criteria laid down in Regulation 2008/1272/EU, mixtures containing lead must be classified as follows (C ≥ 0,03%):

- H360 Repr. 1A May damage fertility or the unborn child.
H362 Lact. May cause harm to breastfed infants.
H412 Aquatic Chronic 3 Harmful to aquatic organisms with long lasting effects

2.2. Label Elements

Not required. For metal alloys, according to Annex I, Section 1.3.4 of Regulation (EU) No. 1272/2008 there is no labelling requirement if they do not present a hazard in their present state.

2.3. Other Hazards

The mixture does not contain any vPvB (vPvB = Very persistent, very bioaccumulative) substances, i.e. it is not covered by Annex XIII of EC Regulation No. 2006/1907

Inhalation:

Avoid inhaling dusts/fumes from free machining.

Exposure limits of the various components are given in section 3; **most alloys present a low potential health risk.**

There may be a possibility of overexposure to copper fumes when welding, flame cutting, with alloys with a high copper content. Overexposure to copper fumes may cause irritation of the respiratory tract, nausea and metal fume fever.

Lead-containing alloys may present the possibility of exposure to lead dusts or fumes. Prolonged exposure to lead may have toxic effects. The employer must in this case assess the exposure of operations and implement the necessary protective measures in compliance with the legal provisions on workers' health protection.

Contact with eyes or skin:

The product is not an irritant. Take appropriate precautions against projections of chips or splashes of molten metal.

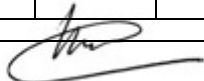
Date 13/12/2022	Prepared by: 	Approved by: 
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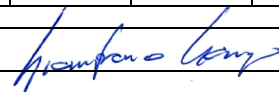
3. Chemical composition /information on ingredients

3.1. Mixtures:

Lega	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Zr	Pb ¹⁾	Bi	Sn	Ag	Li	Al
2011	≤ 0.40	≤ 0.7	5.0 ÷ 6.0					≤ 0.30			0.2 ÷ 0.4	0.2 ÷ 0.6				rem
2033	0.10 ÷ 1.2	≤ 0.7	2.2 ÷ 2.7	0.40 ÷ 1.0	0.20 ÷ 0.6	≤ 0.15	≤ 0.15	≤ 0.50	≤ 0.10			0.05 ÷ 0.8				rem
2030	≤ 0.8	≤ 0.7	3.3 ÷ 4.5	0.20 ÷ 1.0	0.50 ÷ 1.3	≤ 0.10		≤ 0.50	≤ 0.20		0.8 ÷ 1.0	≤ 0.20				rem
2007	≤ 0.8	≤ 0.8	3.3 ÷ 4.6	0.50 ÷ 1.0	0.40 ÷ 1.8	≤ 0.10	≤ 0.20	≤ 0.80	≤ 0.20		0.8 ÷ 1.0	≤ 0.20	≤ 0.20			rem
2014	0.5 ÷ 1.2	≤ 0.7	3.9 ÷ 5.0	0.4 ÷ 1.2	0.20 ÷ 0.8	≤ 0.10		≤ 0.25	≤ 0.15	Zr+Ti ≤ 0.20						rem
2014A	0.5 ÷ 0.9	≤ 0.5	3.9 ÷ 5.0	0.4 ÷ 1.2	0.20 ÷ 0.8	≤ 0.10	≤ 0.10	≤ 0.25	≤ 0.15	Zr+Ti ≤ 0.20						rem
2017A	0.20 ÷ 0.8	≤ 0.7	3.5 ÷ 4.5	0.40 ÷ 1.0	0.40 ÷ 0.8	≤ 0.10		≤ 0.25	≤ 0.15	Zr+Ti ≤ 0.25						rem
2024	≤ 0.5	≤ 0.5	3.8 ÷ 4.9	0.30 ÷ 0.9	1.2 ÷ 1.8	≤ 0.10		≤ 0.25	≤ 0.15	Zr+Ti ≤ 0.20						rem
2077	0.40 ÷ 1.0	≤ 0.7	4.0 ÷ 5.0	0.6 ÷ 1.2	0.6 ÷ 1.2	≤ 0.20	≤ 0.20	≤ 0.25	≤ 0.15	≤ 0.15		0.20 ÷ 0.9		≤ 0.15	≤ 0.15	rem
6060	0.30 ÷ 0.6	0.10 ÷ 0.30	≤ 0.10	≤ 0.10	0.35 ÷ 0.6	≤ 0.05		≤ 0.15	≤ 0.10							rem
6063	0.20 ÷ 0.6	≤ 0.35	≤ 0.10	≤ 0.10	0.45 ÷ 0.9	≤ 0.10		≤ 0.10	≤ 0.10							rem
6064A	0.4 ÷ 0.8	≤ 0.7	0.15 ÷ 0.40	≤ 0.15	0.8 ÷ 1.2	0.04 ÷ 0.14		≤ 0.25	≤ 0.15		0.2 ÷ 0.4	0.4 ÷ 0.8				rem

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Chemical composition/information on ingredients (continued)

Lega	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Zr	Pb ¹⁾	Bi	Sn	Ag	Li	Al
6005	0.6 ÷ 0.9	≤ 0.35	≤ 0.10	≤ 0.10	0.40 ÷ 0.6	≤ 0.10		≤ 0.10	≤ 0.10							rem
6061	0.4 ÷ 0.8	≤ 0.7	0.15 ÷ 0.40	≤ 0.15	0.8 ÷ 1.2	0.04 ÷ 0.35		≤ 0.25	≤ 0.15							rem
6082	0.7 ÷ 1.3	≤ 0.50	≤ 0.10	0.40 ÷ 1.0	0.6 ÷ 1.2	≤ 0.25		≤ 0.20	≤ 0.10							rem
6026	0.6 ÷ 1.4	≤ 0.7	0.20 ÷ 0.50	0.20 ÷ 1.0	0.6 ÷ 1.2	≤ 0.30		≤ 0.30	≤ 0.20		≤ 0.40	0.5 ÷ 1.5	≤ 0.05			rem
6026LF	0.6 ÷ 1.4	≤ 0.7	0.20 ÷ 0.50	0.20 ÷ 1.0	0.6 ÷ 1.2	≤ 0.30		≤ 0.30	≤ 0.20		≤ 0.05	0.5 ÷ 1.5	≤ 0.05			rem
6262	0.4 ÷ 0.8	≤ 0.7	0.15 ÷ 0.40	≤ 0.15	0.8 ÷ 1.2	0.04 ÷ 0.14		≤ 0.25	≤ 0.15		0.4 ÷ 0.7	0.4 ÷ 0.7				rem
6262A	0.4 ÷ 0.8	≤ 0.7	0.15 ÷ 0.40	≤ 0.15	0.8 ÷ 1.2	0.04 ÷ 0.14		≤ 0.25	≤ 0.15			0.4 ÷ 0.9	0.4 ÷ 1.0			rem
7003	≤ 0.30	≤ 0.35	≤ 0.20	≤ 0.30	0.50 ÷ 1.0	≤ 0.20		5.0 ÷ 6.5	≤ 0.20	0.05 ÷ 0.25						rem
7020	≤ 0.35	≤ 0.40	≤ 0.20	0.05 ÷ 0.50	1.0 ÷ 1.4	0.10 ÷ 0.35		4.0 ÷ 5.0		0.08 ÷ 0.20						rem
7075	≤ 0.40	≤ 0.50	1.2 ÷ 2.0	≤ 0.30	2.1 ÷ 2.9	0.18 ÷ 0.28		5.1 ÷ 6.1	≤ 0.20	Zr+Ti ≤ 0.25						rem

Note: one digit indicates the maximum percentage by weight; two digits indicate the percentage range by weight

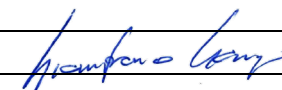
1) REACH SVHC-listed substance.

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Material	EEC No.	CAS No.	Symbol	Labelling/Hazardous statements	TLV/TWA mg/m ³	REACH SVHC list
Aluminium	231-072-3	7429-90-5	Al	 Dusts: H228 - H261	/	No
Silver	231-131-3	7440-22-4	Ag		0,1	No
Bismuth	231-177-4	7440-69-9	Bi		/	No
Chrome	231-157-5	7440-47-3	Cr		0,5	No
Iron	231-096-4	7439-89-6	Fe		/	No
Lithium	231-102-5	7439-93-2	Li	  Dusts: H314 – H260	/	No
Magnesium	231-104-6	7439-95-4	Mg	 Dusts: H250 – H260	/	No
Manganese	231-105-1	7439-96-5	Mn		0,02	No
Nickel	231-111-4	7440-02-0	Ni	  H317 - H351– H372	1,5	No
Lead	231-100-4	7439-92-1	Pb	  H360FD – H362 - H400 - H410	0,05 0,15 (EU-OELV)	Yes
Copper	231-159-6	7440-50-8	Cu	 H411	1 (dust - fogs) 0,2 (fumes)	No
Silicon	231-130-8	7440-21-3	Si		/	No
Tin	231-141-8	7440-31-5	Sn		2	No
Titanium	231-142-3	7440-32-6	Ti		/	No
Zinc	231-175-3	7440-66-6	Zn	  Dusts: H250 - H260 – H400 – H410	/	No
Zirconium	231-176-9	7440-67-7	Zr	 Dusts: H250 - H260	5	No

The mixture (alloy) may contain the following substances of Very High Concern (SVHC) that are included in the Candidate List according to Article 59 of REACH: 7439-92-1, 231-100-4, Lead.

Table of specific concentration limits

Substance:	Concentration (%)		Specific concentration limits	Classification
Lead CAS N ° 7439-92-1 CE n ° 231-100-4	0.40	Alloys: 2011, 6064A, 6026	Repr. 1A; H360D; C ≥ 0,03 %	H360 May damage fertility or the unborn child H362 May cause harm to breastfed infant
	0.70	Alloys: 6262		
	1.00	Alloys: 2007, 2030		
Zinc CAS N ° 7440-66-6 CE n ° 231-175-3	\	See individual alloy table	None	H400 Very toxic to aquatic organisms H410 Very toxic to aquatic organisms with long-lasting effects
Nickel CAS N ° 7440-02-0 CE n ° 231-111-4	0.10	Alloys: 2014A	None	H317 May cause an allergic skin reaction.
	0.15	Alloys: 2033		
	0.20	Alloys: 2007, 2077		

Date 13/12/2022

Prepared by:

Approved by:

4. First aid measures

4.1. Description of first aid measures

- Dust inhalation:** Carry the casualty outdoors and keep him at rest in a position conducive to breathing.
- Ingestion:** N/A
- Skin contact:** For minor burns, apply cold water.
- Eyes contact (powders):** Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a doctor if necessary.

4.2. Main symptoms and effects, both acute and delayed

Not available.

4.3. Indication of any need for immediate medical attention and special treatment

Not available.

5. Fire-fighting measures

Bars and profiles under normal conditions do not present fire or explosion hazards. Use fire-fighting methods and materials appropriate to the condition developed.

5.1. Extinguishing media:

Small chips, fine turnings and dust can easily catch fire. Use large jets of water on chips, turnings, etc...
Use powder or foam extinguishers or sand to extinguish dust fires.

5.2. Special hazard arising from the substance or mixture:

Powder clouds can be explosive. Prevent their formation. Avoid sparks or other forms of ignition in the presence of powder clouds.

5.3. Recommendations for firefighters:

Wear suitable breathing apparatus and protective clothing

6. Measures in case of accidental release

No specific measure required.

6.1. Personal precautions, protective equipment and emergency procedure:

No specific measure required.

6.2. Environmental precautions:

Ensure that waste is collected and stored.
In case of contaminations of watercourses, soil or sewers, inform the competent authorities.
Do not disperse in the environment.
No special environmental measures required.
Handling and storage.

6.3. Method and material for containment and remediation:

Treat the removed material as described in the section on waste disposal
Collected in closed containers suitable for disposal

6.4. Reference to other sections:

Safe handling: see section 7
Disposal: see section 13
Individual protective equipment: see section 8

7. Handling and storage

7.1. Precautions for safe handling:

Handle with care and attention to avoid cuts or scratches. Avoid exposition to dusts and fumes. Adopt adequate ventilation systems in order to comply with the exposure limits indicated in paragraph 3.

7.2. Conditions for safe storage, including any incompatibilities:

Take appropriate precautions to avoid excessive accumulation of dusts or fine shavings in order to prevent possible fire or explosion.

Please note: no special requirements for products such as bars or profiles.

7.3. Particular end-uses:

Apart from the uses mentioned in section 1.2, no other specific uses are envisaged.

8. Exposure control / individual protection

8.1. Control parameters:

See point 3 for the occupational exposure limit values of the various component substances.

8.2. Exposure controls:

Avoid inhalation and dispersion of the powders in the environment when machining alloys. Working environments must be adequately ventilated. Where possible, install local exhaust ventilation and effective air exchange systems. If these measures are not sufficient, provide suitable respiratory protection.

Individual protection:

- **Respirator:** (type P1) effective against fine or inert dust: if occupational exposure limits are exceeded
- **Protective gloves:** recommended (prevention of cuts due to sharp edges)
- **Protective glasses:** recommended where there is a risk of swarf and splashes
- **Safety shoes:** recommended when handling bars or profiles

Environment protection:

All work involving the spread of powders must be supervised by suitable powder collection and abatement systems.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties:

- | | |
|--|--|
| ▪ Appearance | metallic grey solid |
| ▪ Smell | N/A |
| ▪ Olfactory threshold | N/A |
| ▪ pH | N/A |
| ▪ Melting point / Freezing point | 482° ÷ 660 °C / NA |
| ▪ Boiling point: | N/A |
| ▪ Evaporation rate | N/A |
| ▪ Flammability and explosive limits | N/A (not-flammable) |
| ▪ Vapour pressure | N/A |
| ▪ Vapour Density | N/A |
| ▪ Relative density | 2,70 – 2,85 kg/dm ³ |
| ▪ Solubility: | None |
| ▪ Partition coefficient: n-octanol/water | N/A |
| ▪ Auto-ignition temperature | N/A |
| ▪ Decomposition temperature | N/A |
| ▪ Viscosity | N/A |
| ▪ Flammability limits in air | N/A |
| ▪ Explosive properties | Non-explosive product.
Fine powders may form explosive/flammable mixtures |
| ▪ Oxidising properties | No |

9.2. Other information

- Electrical conductivity 37.7 x 10⁶ S/m
- Thermal conductivity 237 W/(m K)

10. Stability and responsiveness

10.1. Reactivity

For finely divided aluminium (e.g. small chips or powders) in contact with:

- Water:** slowly generates hydrogen and heat. Water-aluminium mixtures may be dangerous when confined. The hydrogen generated can produce an explosive mixture with air.
- Heat:** Oxidises with a temperature-dependent speed.
- Acids and alkalis:** Violent exothermic reaction.
- Halogenated compounds:** Halogenated hydrocarbons can react violently with finely divided aluminium.
- Iron oxide, dusts:** Aluminothermic reaction (strong oxidation with heat generation).

10.2. Chemical stability

The product is stable under normal conditions of use, storage and transport.

10.3. Possibility of hazardous reactions

See point 10.1. No specific reaction for the product in commercial condition.

10.4. Conditions to avoid

See also point 7. No specific condition for the product in commercial condition.

10.5. Incompatible materials

See point 10.1. No specific material for the product in commercial condition.

10.6. Hazardous decomposition products

None.

11. Toxicological information

Aluminium powders and fumes are of little danger to health.

Magnesium oxide, zinc oxide and manganese oxide fumes may cause "metal fume fever". The symptoms, which are temporary, may be fever, chills, nausea, vomiting, muscle pain. However, the risk in cases of inhalation is low.

Overexposure to copper fumes can cause irritation of the respiratory tract, nausea and metal fume fever.

Some lead-containing alloys may present the possibility of exposure to lead powders or fumes. Inorganic lead has been added to the list of carcinogens to humans by the IARC (group 2B). Long-term overexposure to lead can have toxic effects. Chronic intoxication can result in three different pictures, referring to different stages of intoxication:

- 1) Impregnation phase or presaturation phase: it is characterised by the absence of striking symptoms but by a significant alteration of biological indicators;
- 2) florid phase: a variety of manifestations, variously associated with each other, may be present, including: anaemia, abdominal colic, hypertensive crises, peripheral neuropathy, cerebral alterations (headache, memory disorders, convulsions, psychosis);
- 3) chronic phase of impregnation: the symptoms of the florid phase (anaemia, peripheral neuropathy, cerebral alterations) with gastroduodenitis, stable arterial hypertension, renal failure may occur.

Chronic overexposure to manganese fumes can lead to nervous system disorders, pneumonia, and fibrosis of lung tissue.

Cutting and plasma welding of aluminium can generate ozone. Overexposure to ozone can cause mucous membrane irritation and lung alterations such as irritation, congestion, oedema.

12. Ecological information

12.1. Toxicity

Mixture: Harmful to aquatic organisms with long-lasting effects. The waste is classified by current regulations as special, recoverable, non-hazardous. Carefully avoid disposal of waste in the environment.

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in the soil

The product has not been tested.

12.5. Result of PBT and VPvB assessment

No data available

12.6. Endocrine-disrupting properties

No data available

12.7. Others adverse effects

No data available

13. Disposal consideration

Disposal of any residual product, container or wrapping in an environmentally acceptable manner, in full compliance with national laws and local regulations. The allocation of waste identification codes/waste descriptions must be carried out in accordance with the specific EEC standards for the sector and processing.

Scrap storage for recycling: to maintain purity it may be desirable to keep scrap of different alloys separate.

Finely divided aluminium (powders, small chips) can be reactive. Check its hazardous properties before storage (see point No. 10).

14. Transport information

UN No.:	none
ADR class (by road):	non-dangerous
RID class (by rail):	non-dangerous
IMDG class (by sea):	non-dangerous
ICAO/IATA class (by air):	non-dangerous

15. Regulatory Information

15.1. Safety, health and environmental regulations specific to the substance or mixture:

Classification and labelling: see section 2

Reach: Annex XVII (restrictions)

Substance:	CAS	EC
Lead	7436-92-1	231-100-4
Nichel	7440-02-0	231-111-4


Reach: Candidate list SVHC

Substance:	CAS	EC
Lead	7436-92-1	231-100-4

The product is stable under normal conditions of use, storage and transport.

15.2. Chemical safety assessment:

The supplier has not carried out any chemical safety assessment for this mixture.

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16. Other information

The revision of the safety sheet has led to changes in all sections compared to the previous revision.

Classification and process used on the derivation of mixtures according to Regulation (EC) 1272/2008 (CLP):

Classification according to the calculation procedure

Full text of the hazard codes in paragraphs 2 and 3

- H228: Flammable Solid.
- H250: Spontaneously flammable in air.
- H260: In contact with water releases flammable gases that can spontaneously ignite.
- H261: Contact with water liberates flammable gases.
- H317: May cause allergic skin reaction.
- H351: Suspected of causing cancer.
- H360FD: May damage fertility. May damage the unborn child.
- H362: May cause harm to breastfed infants.
- H372: Causes damage to organs through prolonged or repeated inhalation exposure.
- H400: Very toxic to aquatic organisms.
- H410: Very toxic to aquatic organisms with long-lasting effects.
- H411: Toxic to aquatic organisms with long-lasting effects.

Final note:

The information refers to the products specifically indicated and cannot be applied when these products are used in combination with others or in different processes.

The information is provided in good faith and is based on the latest information to the best of Eural Gnutti S.p.A.'s knowledge, with the accuracy and reliability available at the time of compilation.

The product is supplied on the condition that the user verifies the applicability and completeness of this information in relation to its particular use.

This Safety Sheet is subject to revision.

Date 13/12/2022	Prepared by: 	Approved by: 
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