



**GNUTTI S.p.A.**

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NS. RIF.	VS. RIF.
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**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

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 16/01/2020), 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

	<b>MATERIAL SAFETY DATA SHEET</b> According to EC directives 2006/1907/EC, art. 31	QSMmp07.10.03E	Pag. 1 of 7
		Rev. 07	25/09/2019

Directive No. 2008/1272 EC

## 1. Identification of the product and of the company

- 1.1 Product identifier:** Bars, tubes and profiles in aluminium wrought alloys (alloys 2011, 2007, 2033, 2030, 2014, 2014A, 2017A, 2024, 6060, 6063, 6064A, 6005, 6061, 6082, 6026, 6026LF, 6262, 6262A, 7003, 7020, 7075)
- 1.2 Use of the product:** Industrial and commercial.  
Main application areas: screw machining (products made of rods and bars), pneumatic, automotive, heat sink, hydraulic, ... (profiles)
- 1.3 Company name:** EURAL GNUTTI S.p.A.  
Via S. Andrea No. 3  
25038 Rovato (BS) - Italy  
Tel. + 39.0307725011  
e-mail: eural@eural.com
- Information provided by:** Products security office

## 2. Hazard Identification

### 2.1. Classification of the mixture:

As per classification criteria of the directive 2008/1272/EC, the mixture containing lead must be classified according to the following indications

- C ≥ 2,5%: Repr. 2 H361f
- C ≥ 0,5%: STOT RE 2 H373

### 2.2. Label Elements

Not required. For metal alloys, in accordance with Annex I, par. 1.3.4 Point 1.3.4 of the Regulation (EC) No. 1272/2008 is not expected to require labelling if present no danger in the state in which they are located.

### 2.3. Other Hazards

The mixture does not contain any substance vPvB (Very persistent, very bioaccumulative) otherwise is not included in Annex XIII of EC Regulation No. 2006/1907


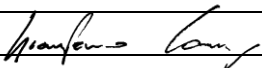
**Inhalation:** Avoid inhaling dusts / fumes arising from free machining.

Exposure limits of the different ingredients are shown at paragraph 3; **most alloys have a low health risk potential.**

The potential for overexposure to copper fumes may exist when welding or flame cutting on alloys containing high amount of copper. Overexposure to copper fumes can result in respiratory tract irritation, nausea and metal fume fever.

Aluminium lead alloys may result in the possibility of exposure to lead dusts or fumes. Overexposure to lead can result in toxic effects. In this case the employer must take into consideration the occupational exposure and set up appropriate safety measures according to law provisions for health and safety of workers.

**Eyes and skin contact:** The product is not irritating. Prevent chips projections or sprays of molten metal with adequate measures.

Date 25/09/2019	Prepared by: 	Approved by: 
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### 3. Chemical composition /information on ingredients

Lega	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Zr	Pb <sup>1)</sup>	Bi	Sn	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	0.40÷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	0.40÷1.2	0.20÷0.8	≤ 0.10	≤ 0.10	≤ 0.25	≤ 0.15	Zr+Ti ≤ 0.20				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
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
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
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	≤ 0.10			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 weight %; 2 digits indicate the weight % range

1) Element added to REACH SVHC list.

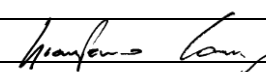
Material	EEC No.	CAS No.	Formula	Labelling/Hazardous statements	TLV/TWA mg/m <sup>3</sup>	REACH SVHC list
Copper	-	7440-50-8	Cu		1 (dusts-fogs) 0,2 (fumes)	No
Iron	-	7439-89-6	Fe		5 (oxides)	No










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Material	EEC No.	CAS No.	Formula	Labelling/Hazardous statements	TLV/TWA mg/m <sup>3</sup>	REACH SVHC list
Manganese	-	7439-96-5	Mn		0.2	No
Magnesium	012-001-00-3	7439-95-4	Mg	 H228 - H251 - H261	10 (oxides)	No
Silicon	-	7440-21-3	Si		10	No
Zinc	030-001-00-1	7440-66-6	Zn	 Dust: H250 - H260	10	No
Chrome	-	7440-47-3	Cr		0.5	No
Titanium	-	7440-32-6	Ti		10	No
Nickel	028-002-00-7	7440-02-0	Ni	  H351 – H372 – H317	0.05	No
Zirconium	040-001-00-3	7440-67-7	Zr	 Dust: H250 - H260	5	No
Lead	-	7439-92-1	Pb	   H360Df - H332 - H302 - H373 - H410	0.05	Yes
Bismuth	-	7440-69-9	Bi		10	No
Tin		7440-31-5	Sn		2	No
Aluminium	013-001-00-6	7429-90-5	Al	 Dust: H250 - H260	10	No

## 4. Emergency medical information

**Dust inhalation:** Bring injured to fresh air

**Ingestion:** N/A

**Skin contact:** For minor burns apply cold water.

**Eyes contact (powders):** Immediately rinse eyes with water for at least 15 minutes. Seek for medical attention if irritation persists

## 5. Firefighting measures

Bars and profiles do not present fire or explosion hazards under normal conditions. Use firefighting material and methods appropriate to fire condition developed .

**Precautions** Dusts clouds may be explosive. Prevent formation. Avoid ignition sparks in presence of dust clouds.

**Extinction procedures** Small chips, fine turnings and dust may easily ignite. Use **copious water jets** on chips, turnings, etc.

Use **powder or foam extinguisher otherwise sand** to extinguish dust fires

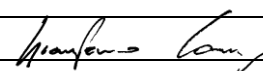
**Personal protective equipment** Wear appropriate breathing apparatus and protective clothing.

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## 6. Accidental release measures

No specific measure required.

## 7. Handling and storage

**7.1 Precautions for safe handling:** Handle with care to prevent cuts or scratches. Avoid exposition to dusts and fumes.

Use appropriate ventilation devices in order to keep within the exposure limits specified at paragraph 3.

**7.2 Conditions for safe storage, including any incompatibilities:** Take appropriate precautions to avoid over store of dusts or fine chips in order to prevent possibility of fire or explosions.

N.B. No limitations for products such as bars and profiles.

## 8. Exposure information / individual protection

**8.1 Control parameters: See point 3 for professional exposure limit values of the various chemical elements. Moreover the Italian regulation indicates the follow specific limits:**

- Professional exposure (mg/m<sup>3</sup>): Pb = 0,15; Cr = 0,5
- Biological exposure (µg/100 ml of blood): Pb = 60

**8.2 Technical measures:** Avoid dusts inhalation and powder dispersion in the area. Working areas must be well aired. Where possible, install air vacuum devices and effective air replacement devices. If these measures are not sufficient, provide suitable protection of respiratory tract.

Personal protection:

- **Respirator** (type P1) effective against fine or inert dusts (when exceeding professional exposure limits)
- **Protective gloves:** recommended (they will prevent cuts due to sharp edges)
- **Protective glasses:** recommended in case of projection of chips and spray danger
- **Safety shoes:** recommended in case of bars or profile handling

Environment protection:

Any processing that might spread powders must have appropriate devices for caption and elimination of powder.

## 9. Physical and chemical properties

### 9.1. Chemical and physical properties:

- |  |                             |
|--|-----------------------------|
| ▪ Appearance                                   | solid, metallic-grey colour |
| ▪ Odour  | N/A                         |
| ▪ Odour threshold                              | N/A                         |
| ▪ pH   | N/A                         |
| ▪ Melting point / Freezing point               | 482° ÷ 660 °C / NA          |
| ▪ Initial boiling point and boiling range:     | N/A                         |
| ▪ Flash point:                                 | N/A (non inflammable)       |
| ▪ Evaporation rate                             | N/A                         |
| ▪ Flammability                                 | N/A                         |
| ▪ Upper/lower flammability or explosive limits | N/A                         |

- Vapour pressure N/A
- Vapour Density N/A
- Relative density 2,72 – 2,85 kg/dm<sup>3</sup>
- Solubility: none

### 9.1 Chemical and physical properties (continue):

- Partion coefficient: n-octanol/water N/A
- Auto-ignition temperature N/A
- Decomposition temperature N/A
- Viscosity N/A
- Explosive properties No explosive product.  
Fine dust may form explosive/flammable mixture.
- Oxidising properties No

### 9.2. Chemical and physical properties:

- Electrical conductivity 37.7 x 10<sup>6</sup> S/m
- Thermal conductivity 237 W/(m K)

## 10. Stability and reactivity

### 10.1. Reactivity

For finely divided aluminium (for ex. small chips or dusts) on contact with:

**Water:** slowly generates hydrogen and heat. Water-aluminium mixtures may be hazardous when confined. The hydrogen generated on contact with air can produce an explosive mixture.

**Heat:** Oxides at a speed that depends on the temperature

**Acids and alkalis:** Violent exothermic reaction.

**Halogenated compounds:** Halogenated hydrocarbons can violently react with finely divided aluminium.

**Iron oxide, dusts:** Aluminothermy 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 specification to the product in commercial state.

### 10.4. Conditions to avoid

See section 7. No specification to the product in commercial state.

### 10.5. Incompatible materials

See point 10.1. No specification to the product in commercial state.

### 10.6. Hazardous decomposition products

None.

## 11. Toxicological information

Aluminium dusts and fumes are low health risk.

Exposure to magnesium oxide, zinc oxide and manganese oxide fumes may cause "metal fume fever". Temporary symptoms include fever, chills, nausea, vomit, muscular pain. Exposure to these fumes presents however low healths risk by inhalation.

Overexposure to copper fumes can result in upper respiratory tract irritation, nausea and metal fume fever.

Some alloys containing lead may have potential risk of exposure to lead dusts or fumes. Inorganic lead has been listed as carcinogenic to humans by IARC (Group 2B). Overexposure to lead over an extended time can result in toxic effects. Chronic toxicity may lead to 3 different phases:

- 1) Impregnating and pre-lead poisoning phase: it is characterized by lack of evident symptoms but by important alterations of biological indicators.
- 2) Thriving phase: there are various symptoms, differently associated among themselves, such as: anaemia, abdominal colic, hypertensive fits, peripheral neuropathy, cerebral disturbances (cephalea, memory troubles, convulsions, psychosis).
- 3) Chronic impregnating phase: may have the same symptoms as the thriving phase (anaemia, peripheral neuropathy, cerebral disturbances) together with gastrointestinal disturbances, steady arterial hypertension, renal insufficiency.

Chronic overexposure to manganese fumes may cause nervous system disorders, pneumonias, fibrosis of lung tissue.

Plasma arc cutting and welding of aluminium can generate ozone. Overexposure to ozone can result in mucous membrane irritation and pulmonary alterations such as irritation, congestion, edema.

## 12. Ecological data

Waste of aluminium is classified by law in force as particular, recyclable, not dangerous. Avoid disposal of waste in the environment.

## 13. Waste disposal information

Disposal of any residual product, case or packaging must be done in an appropriate way for the environment to comply with Laws or local Regulations in force.

Storage of recycling scraps: to maintain purity it may be necessary to segregate scraps by alloys.

Finally, divided aluminium (dusts and small chips) may be reactive. Its hazardous characteristics should be determined prior to disposal (see point No. 10).

## 14. Transport information

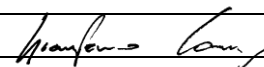
ONU N.:	none
ADR class (transport by road):	not dangerous
RID class (transport by rail):	not dangerous
IMDG class (transport by sea):	not dangerous
ICAO/IATA class:(transport by air)	not dangerous

Date 25/09/2019

Prepared by:



Approved by:



## 15. Regulatory Information

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

Classification and labelling: see section 2

No additional provisions

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

### 15.2. Chemical safety assessment

Not provided for the used mixture

## 16. Other information

The current review of the safety data sheet entailed changes in all sections of the previous revision (rev. 04)

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

For alloys containing lead the following symbols and hazard statements are used (see paragraph 2)

- Repr. 2: Reproductive toxicity danger category 2
- H361f: Suspected of damaging fertility

Integral text of hazard statements as per paragraph 2 and 3

- H228: Flammable Solid
- H250: Catches fire spontaneously if exposed to air.
- H251: Self-heating: may catch fire.
- H260: In contact with water releases flammable gases which may ignite spontaneously.
- H261: In contact with water releases flammable gases.
- H302: Harmful if swallowed.
- H317: May cause an allergic skin reaction.
- H332: Harmful if inhaled.
- H351: Suspected of causing cancer if inhaled
- H360Df: May damage the unborn child. Suspected of damaging fertility.
- H372: Causes damage to organs through prolonged inhaled or repeated exposure
- H373: May cause damage to organs through prolonged inhaled or repeated exposure
- H410: Very toxic to aquatic life with long lasting effects.

### Final note:

The information carried in this Safety Sheet is referred to the products specifically indicated and cannot be applied when these products are used in combination with others or in different processes.

Information is given in bona fide and it is based on the most recent news responding to the best knowledge of Eural Gnutti S.p.A., with the precision and reliability available at the moment of its writing.

The product is supplied at the condition that the user verifies the applicability and completeness of such information according to his particular utilization.

This Safety Sheet is subject to revision.