acc. to Safe Work Australia - Code of Practice

#### Aluminium ROTI®METIC 99,995 % (4N5) granulate



Replaces version of: 2021-12-06

Version: (GHS 3)

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

#### **Product identifier** 1.1

Identification of the substance Aluminium ROTI®METIC 99,995 % (4N5) granu-

late

Article number 5577

CAS number 7429-90-5

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for private purposes (household).

Food, drink and animal feedingstuffs.

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

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 Telefax: +49 (0) 721 - 56 06 149 e-mail: sicherheit@carlroth.de Website: www.carlroth.de

e-mail (competent person): sicherheit@carlroth.de

#### 1.4 **Emergency telephone number**

Name	Street	Postal code/city	Telephone	Website
NSW Poisons Information Centre Childrens Hospital	Hawkesbury Road	2145 West- mead, NSW	131126	

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification acc. to GHS

This substance does not meet the criteria for classification.

#### **Label elements** 2.2

#### Labelling

not required

Australia (en) Page 1 / 10



acc. to Safe Work Australia - Code of Practice

# Aluminium ROTI®METIC 99,995 % (4N5) granulate

article number: **5577** 



#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0.1\%$ .

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Name of substance Aluminium

Molecular formula Al

Molar mass  $26.98 \, ^{\mathrm{g}} \mathrm{f}_{\mathrm{mol}}$  CAS No 7429-90-5

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures



#### **General notes**

No special measures are necessary.

#### Following inhalation

No special measures are necessary. There is no major dust generation possible.

### Following skin contact

No special measures are necessary.

#### Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

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

Symptoms and effects are not known to date.

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

none

Australia (en) Page 2 / 10

acc. to Safe Work Australia - Code of Practice

#### Aluminium ROTI®METIC 99,995 % (4N5) granulate

article number: 5577



# **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media



### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water, foam, dry extinguishing powder, D-powder, dry sand

#### Unsuitable extinguishing media

carbon dioxide (CO<sub>2</sub>)

## 5.2 Special hazards arising from the substance or mixture

None.

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures



## For non-emergency personnel

No special measures are necessary.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

#### 6.3 Methods and material for containment and cleaning up

#### Advice on how to contain a spill

Covering of drains. Take up mechanically.

#### Advice on how to clean up a spill

Take up mechanically.

#### Other information relating to spills and releases

Place in appropriate containers for disposal.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

Australia (en) Page 3 / 10

acc. to Safe Work Australia - Code of Practice

#### Aluminium ROTI®METIC 99,995 % (4N5) granulate

article number: 5577



## **SECTION 7: Handling and storage**

#### **Precautions for safe handling**

No special measures are necessary.

#### Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

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

Store in a dry place.

#### **Incompatible substances or mixtures**

Observe hints for combined storage.

Consideration of other advice:

## Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

#### 7.3 Specific end use(s)

No information available.

# SECTION 8: Exposure controls/personal protection

#### 8.1 **Control parameters**

#### **National limit values**

#### Occupational exposure limit values (Workplace Exposure Limits)

Coun	Name of agent	CAS No	Identifi- er	TWA [mg/ m³]	STEL [mg/ m³]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
AU	aluminium	7429-90-5	WES	10			dust	WES
AU	aluminium	7429-90-5	WES	5			fume_w eld	WES
AU	aluminium	7429-90-5	WES	5			pyro_p	WES

#### Notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur

As dust dust

fume\_weld As welding fumes pyro\_p STEL As pyrophoric powder

Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 TWA

hours time-weighted average (unless otherwise specified)

#### 8.2 **Exposure controls**

### Individual protection measures (personal protective equipment)

#### **Eye/face protection**



Use safety goggle with side protection.

Australia (en) Page 4 / 10

acc. to Safe Work Australia - Code of Practice

#### Aluminium ROTI®METIC 99,995 % (4N5) granulate

article number: 5577

## Skin protection



#### hand protection

Hand protection is not required.

## **Respiratory protection**





Usually no personal respirative protection necessary.

#### **Environmental exposure controls**

Keep away from drains, surface and ground water.

# **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Physical state solid

Form acc. to product description

Colour silver grey
Odour odourless
Melting point/freezing point 660 °C
Boiling point or initial boiling point and boiling 2,500 °C

range

Flammability this material is combustible, but will not ignite

readily

Lower and upper explosion limit not determined

Flash point not applicable

Auto-ignition temperature not determined

Decomposition temperature not relevant

pH (value) not applicable

Kinematic viscosity not relevant

Solubility(ies)

Water solubility (The study does not need to be conducted be-

cause the substance is known to be insoluble in

water)

Partition coefficient

Partition coefficient n-octanol/water (log value): not relevant (inorganic)

Australia (en) Page 5 / 10



acc. to Safe Work Australia - Code of Practice

### Aluminium ROTI®METIC 99,995 % (4N5) granulate

article number: 5577

Vapour pressure not determined

Density and/or relative density

Density 2.7 g/<sub>cm³</sub> at 20 °C

Relative vapour density Information on this property is not available.

Particle characteristics No data available.

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard

classes:

hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics: There is no additional information.

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

## 10.3 Possibility of hazardous reactions

Dangerous/dangerous reactions with: Strong alkali, Strong acid

## 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### 10.5 Incompatible materials

There is no additional information.

#### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Classification acc. to GHS

This substance does not meet the criteria for classification.

#### **Acute toxicity**

Shall not be classified as acutely toxic.

Acute toxicity					
Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	>15,900 <sup>mg</sup> / <sub>kg</sub>	rat		ECHA

Australia (en) Page 6 / 10



acc. to Safe Work Australia - Code of Practice

#### Aluminium ROTI®METIC 99,995 % (4N5) granulate

article number: 5577



#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Shall not be classified as germ cell mutagenic.

Shall not be classified as carcinogenic.

### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

### Symptoms related to the physical, chemical and toxicological characteristics

#### If swallowed

Data are not available.

#### If inhaled

Data are not available.

#### • If on skin

Data are not available.

### 11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq$  0,1%.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### 12.2 Persistence and degradability

Data are not available.

## 12.3 Bioaccumulative potential

Data are not available.

Australia (en) Page 7 / 10



Shall not be classified as corrosive/irritant to skin.

### **Germ cell mutagenicity**

### Carcinogenicity

## Specific target organ toxicity - repeated exposure

### • If in eyes

Data are not available.

#### Other information

Health effects are not known.

acc. to Safe Work Australia - Code of Practice

#### Aluminium ROTI®METIC 99,995 % (4N5) granulate

article number: 5577

## 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0.1\%$ .

#### 12.7 Other adverse effects

Data are not available.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



Consult the appropriate local waste disposal expert about waste disposal.

Recycling/reclamation of metals and metal compounds.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

# **SECTION 14: Transport information**

14.1 UN number	not subject to	transport regulations
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14.2 UN proper shipping name not assigned
 14.3 Transport hazard class(es) not assigned
 14.4 Packing group not assigned

**14.5 Environmental hazards** non-environmentally hazardous acc. to the dan-

gerous goods regulations

## 14.6 Special precautions for user

There is no additional information.

## 14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

#### 14.8 Information for each of the UN Model Regulations

## Transport informationNational regulationsAdditional information(UN RTDG)

Not subject to transport regulations. UN RTDG

Australia (en) Page 8 / 10



acc. to Safe Work Australia - Code of Practice

#### Aluminium ROTI®METIC 99,995 % (4N5) granulate

article number: 5577



International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

## **SECTION 15: Regulatory information**

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

There is no additional information.

National regulations(Australia)

Australian Inventory of Chemical Substances(AICS)

Substance is listed.

#### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### **National inventories**

Country	Inventory	Status
AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TR	CICR	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

#### Legend

AIIC CICR DSL ECSI Australian Inventory of Industrial Chemicals Chemical Inventory and Control Regulation Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China National Inventory of Chemical Substances

INDUCTION INCLUDING INVENTORY OF CHEMICAL Substances

KECI Korea Existing Chemicals Inventory

NCI National Chemical Inventory

NZIOC New Zealand Inventory of Chemicals

PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)

REACH Reg.

REACH registered substances

TCSI Taiwan Chemical Substance Inventory

Taiwan Chemical Substance Inventory

TSCA Toxic Substance Control Act

#### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

Page 9 / 10 Australia (en)

acc. to Safe Work Australia - Code of Practice

## Aluminium ROTI®METIC 99,995 % (4N5) granulate

article number: 5577



## **SECTION 16: Other information**

## **Indication of changes (revised safety data sheet)**

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
15.1		National inventories: change in the listing (table)	yes

#### **Abbreviations and acronyms**

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Abbr.	obr. Descriptions of used abbreviations			
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)			
Ceiling-C	Ceiling value			
DGR	Dangerous Goods Regulations (see IATA/DGR)			
ED	Endocrine disruptor			
EINECS	European Inventory of Existing Commercial Chemical Substances			
ELINCS	European List of Notified Chemical Substances			
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations			
IATA	International Air Transport Association			
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)			
ICAO	International Civil Aviation Organization			
IMDG	International Maritime Dangerous Goods Code			
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval			
NLP	No-Longer Polymer			
PBT	Persistent, Bioaccumulative and Toxic			
STEL	Short-term exposure limit			
TWA	Time-weighted average			
UN RTDG	UN Recommendations on the Transport of Dangerous Good			
vPvB	Very Persistent and very Bioaccumulative			
WES	Safe Work Australia: Workplace exposure standards for airborne contaminants			

## Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### **Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Australia (en) Page 10 / 10