acc. to Safe Work Australia - Code of Practice

#### Aluminium sulphate ROTI®METIC 99,99 % (4N)

article number: 1L4Y date of compilation: 2021-07-29 Version: GHS 2.0 en Revision: 2024-03-02

Replaces version of: 2021-07-29

Version: (GHS 1)



#### **Product identifier** 1.1

Identification of the substance **Aluminium sulphate ROTI®METIC 99,99 % (4N)** 

Article number **1L4Y** 

CAS number 10043-01-3

#### 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.

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

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

sheet:

e-mail (competent person):

sicherheit@carlroth.de

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

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

## **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

#### Classification acc. to GHS

| Section | Hazard class                             | Cat-<br>egory | Hazard class and category | Hazard<br>statement |
|---------|--|---------------|---------------------------|---------------------|
| 2.16    | Substance or mixture corrosive to metals | 1             | Met. Corr. 1              | H290                |

For full text of abbreviations: see SECTION 16

#### 2.2 **Label elements**

#### Labelling

| Signal word | Warning |
|-------------|---------|
|-------------|---------|

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#### **Pictograms**

GHS05



#### **Hazard statements**

H290 May be corrosive to metals

#### **Precautionary statements**

#### **Precautionary statements - prevention**

P234 Keep only in original container

#### **Precautionary statements - response**

P390 Absorb spillage to prevent material damage

#### Precautionary statements - storage

P406 Store in corrosive resistant container with a resistant inner liner

#### 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 sulphate

Molecular formula  $Al_2O_{12}S_3$  Molar mass  $342.2 \, ^{g}/_{mol}$  CAS No 10043-01-3

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures



#### **General notes**

Take off contaminated clothing.

#### **Following inhalation**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

#### **Following skin contact**

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

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#### 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

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

## Unsuitable extinguishing media

water jet

#### 5.2 Special hazards arising from the substance or mixture

Non-combustible.

#### **Hazardous combustion products**

In case of fire may be liberated: Sulphur oxides (SOx)

#### 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

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Do not breathe dust.

## **6.2** Environmental precautions

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

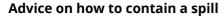
#### 6.3 Methods and material for containment and cleaning up

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Covering of drains. Take up mechanically.

## Advice on how to clean up a spill

Take up mechanically. Control of dust.

#### Other information relating to spills and releases

Place in appropriate containers for disposal.

#### Reference to other sections 6.4

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

# **SECTION 7: Handling and storage**

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

Avoid dust formation.

#### Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

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

Store in a dry place. Hygroscopic solid.

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

Observe hints for combined storage.

#### Consideration of other advice:

#### **Ventilation requirements**

Use local and general ventilation.

#### 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-<br>er | TWA<br>[mg/<br>m³] | STEL<br>[mg/<br>m³] | Ceil-<br>ing-C<br>[mg/<br>m³] | Nota-<br>tion | Source |
|------|----------------|--------|-----------------|--------------------|---------------------|-------------------------------|---------------|--------|
| AU   | nuisance dusts |        | WES             | 10                 |                     |                               | i             | WES    |

**Notation** 

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

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 STEL

TWA hours time-weighted average (unless otherwise specified)

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#### **Human health values**

| Relevant DNELs and other threshold levels |                      |                                    |                   |                            |  |  |
|---|----------------------|------------------------------------|-------------------|----------------------------|--|--|
| Endpoint                                  | Threshold<br>level   | Protection goal, route of exposure | Used in           | Exposure time              |  |  |
| DNEL                                      | 13.4 mg/m³           | human, inhalatory                  | worker (industry) | chronic - systemic effects |  |  |
| DNEL                                      | 3.8 mg/kg bw/<br>day | human, dermal                      | worker (industry) | chronic - systemic effects |  |  |

#### 8.2 Exposure controls

#### Individual protection measures (personal protective equipment)

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





Use safety goggle with side protection.

#### Skin protection





#### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### type of material

NBR (Nitrile rubber)

#### material thickness

>0,11 mm

#### breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

#### **Respiratory protection**





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Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).

#### **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 powder
Colour white
Odour odourless

Melting point/freezing point 770 °C (ECHA)

Boiling point or initial boiling point and boiling not determined

range

Flammability

Lower and upper explosion limit

Flash point

Auto-ignition temperature

Decomposition temperature

pH (value)

Not applicable

not relevant

not applicable

not applicable

not relevant

not applicable

not relevant

Solubility(ies)

Water solubility 300 g/l at 20 °C

Partition coefficient

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

Vapour pressure not determined

Density and/or relative density

Density  $\sim 2.71 \, {}^{9}/_{cm^3}$  at 20  ${}^{\circ}\text{C}$ 

Relative vapour density Information on this property is not available.

Particle characteristics No data available.

Other safety parameters

Oxidising properties none

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Information with regard to physical hazard

classes:

Corrosive to metals category 1: corrosive to metals

Other safety characteristics:

 $73 \, ^{\text{mN}}/_{\text{m}} (20 \, ^{\circ}\text{C}) (ECHA)$ Surface tension

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

It's a reactive substance. Substance or mixture corrosive to metals.

#### 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

Violent reaction with: strong oxidiser, Strong alkali

#### 10.4 Conditions to avoid

Protect from moisture.

#### 10.5 Incompatible materials

different metals

#### 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

#### **Acute toxicity**

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4. May be harmful if swallowed.

#### **Acute toxicity**

| Exposure route | Endpoint | Value  | Species | Method | Source |
|----------------|----------|--|---------|--------|--------|
| oral           | LD50     | >2,000 – <5,000<br><sup>mg</sup> / <sub>kg</sub> | rat     |        | ECHA   |
| dermal         | LD50     | >5,000 <sup>mg</sup> / <sub>kg</sub>             | rabbit  |        | ECHA   |

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### 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.

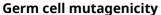
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#### Carcinogenicity

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).

### **Specific target organ toxicity - repeated 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 in eyes

Data are not available.

#### If inhaled

Data are not available.

## • If on skin

Data are not available.

### Other information

This information is based upon the present state of our knowledge.

#### 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

Shall not be classified as hazardous to the aquatic environment.

| Aquatic | toxicity | (acute) |  |
|---------|----------|---------|--|
|         |          |         |  |

| Endpoint | Value                               | Species | Source | Exposure<br>time |
|----------|-------------------------------------|---------|--------|------------------|
| LC50     | >85.9 <sup>mg</sup> / <sub>l</sub>  | fish    | ECHA   | 96 h             |
| EC50     | >0.156 <sup>mg</sup> / <sub>l</sub> | fish    | ECHA   | 96 h             |
| ErC50    | 0.644 <sup>mg</sup> / <sub>l</sub>  | algae   | ECHA   | 72 h             |

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Shall not be classified as germ cell mutagenic.

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| Aquatic | toxicity ( | (chronic | ١ |
|---------|------------|----------|---|
| Aquatic | CONICILY   |          | , |

| Endpoint | Value                               | Species        | Source | Exposure<br>time |
|----------|-------------------------------------|----------------|--------|------------------|
| EC50     | >1,000 <sup>mg</sup> / <sub>l</sub> | microorganisms | ECHA   | 180 min          |

#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 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



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

#### **Relevant provisions relating to waste(Basel Convention)**

#### Properties of waste which render it hazardous

**H8** Corrosives

#### 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.

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# **SECTION 14: Transport information**

14.1 UN number

UN 3260
IMDG-Code UN 3260
ICAO-TI UN 3260

14.2 UN proper shipping name

UN RTDG CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. IMDG-Code CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

ICAO-TI Corrosive solid, acidic, inorganic, n.o.s.

Technical name Aluminium sulphate

14.3 Transport hazard class(es)

UN RTDG 8
IMDG-Code 8
ICAO-TI 8

14.4 Packing group

UN RTDG III
IMDG-Code III
ICAO-TI III

**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)

UN number 3260
Class 8
Packing group III
Danger label(s) 8



Special provisions (SP) 223, 274 UN RTDG

Excepted quantities (EQ)

ŪN RTDG

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**Limited quantities (LQ)** 5 kg UN RTDG

Emergency Action Code 23

International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

Particulars in the shipper's declaration UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC,

N.O.S., (Aluminium sulphate), 8, III

Marine pollutant

Danger label(s) 8



Special provisions (SP) 223, 274

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 kg
EmS F-A, S-B

Stowage category A

Segregation group 1 - Acids

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

Proper shipping name Corrosive solid, acidic, inorganic, n.o.s.

Particulars in the shipper's declaration UN3260, Corrosive solid, acidic, inorganic, n.o.s.,

(Aluminium sulphate), 8, III

Danger label(s) 8



Special provisions (SP)

Excepted quantities (EQ)

Limited quantities (LQ)

5 kg

# **SECTION 15: Regulatory information**

15.1 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.

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| 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          |
| JP      | CSCL-ENCS  | 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 Australian Inventory of Industrial Chemicals
CICR Chemical Inventory and Control Regulation
CSCL-ENCS
DSL Domestic Substances List (DSL)
ECSI EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC Inventory of Existing Chemical Substances Produced or Imported in China INSQ National 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.
TCSI Taiwan Chemical Substances
Taiwan Chemical Substance Inventory
Toxic Substance Control Act

**TSCA Toxic Substance Control Act** 

#### 15.2 Chemical Safety Assessment

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

## **SECTION 16: Other information**

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

| Section | Former entry (text/value) | Actual entry (text/value)   | Safety-<br>relev-<br>ant |
|---------|---------------------------|---|--------------------------|
| 2.3     |                           | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (ED) at<br>a concentration of ≥ 0,1%.   | yes                      |
| 14.8    |                           | Emergency Action Code:<br>2X  | yes                      |
| 15.1    |                           | 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. | yes                      |

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| Section | Former entry (text/value) | Actual entry (text/value)                              | Safety-<br>relev-<br>ant |
|---------|---------------------------|--|--------------------------|
| 15.1    |                           | National inventories:<br>change in the listing (table) | yes                      |

# **Abbreviations and acronyms**

| Abbr.     | 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)   |  |
| DNEL      | Derived No-Effect Level  |  |
| EC50      | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |  |
| ED        | Endocrine disruptor  |  |
| EINECS    | European Inventory of Existing Commercial Chemical Substances  |  |
| ELINCS    | European List of Notified Chemical Substances  |  |
| EmS       | Emergency Schedule   |  |
| ErC50     | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control           |  |
| 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  |  |
| ICAO-TI   | Technical instructions for the safe transport of dangerous goods by air  |  |
| IMDG      | International Maritime Dangerous Goods Code  |  |
| IMDG-Code | International Maritime Dangerous Goods Code  |  |
| LC50      | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval                                |  |
| 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  |  |

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## 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).

## List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                        |
|------|-----------------------------|
| H290 | May be corrosive to metals. |

#### **Disclaimer**

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

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