

# Safety Data Sheet

according to Regulations 1907/2006/EC (REACH) and 2015/830/EU

REF: 816020.1

Aluminiumoxid G/UV254, 1 kg

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Printing date: 11.02.2019

Date of issue: 06.06.2018

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

### 1.1 Product identifier

REF 816020.1  
Product name Aluminiumoxid G/UV254, 1 kg

REACH Registration number(s): see SECTION 3.1/3.2 or  
A registration number for the substance(s) does not exist because the annual tonnage does not require registration or the substance or its use is excluded from registration.

1 x 1 kg Aluminium oxide G/UV<sub>254</sub>

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

#### Relevant identified uses

Product for analytical use.

Exposure Scenario Classification according REACH, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0  
The exposure scenario is integrated into sections 1-16.

#### Uses advised against

not described

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

#### Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG  
Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY  
Tel.: +49 2421 969 0

E-mail: [sds@mn-net.com](mailto:sds@mn-net.com) ([msds@mn-net.com](mailto:msds@mn-net.com))

### 1.4 Emergency telephone number

Information not necessary.

You find our current versions of SDS (22 languages) in Internet:

<http://www.mn-net.com/SDS>

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

1 kg Aluminium oxide G/UV<sub>254</sub>

Signal word Do not need labelling as hazardous  
-

No hazard class

### 2.2 Label elements

1 kg Aluminium oxide G/UV<sub>254</sub>

Do not need labelling as hazardous  
Signal word: -

### 2.3 Other hazards

#### Possible hazards from physicochemical properties

According to our current status of knowledge and experience we state, that this product does not contain any substances, which - in accordance with EC regulations 1272/2008/EC, 1907/2006/EC and German Regulations for Hazardous goods - have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit. An individual package has considerably less hazardous potential. ---

#### Information pertaining to particular risks to human and possible symptoms

Avoid inhalation of dust. ---

#### Information pertaining to particular risks to the environment

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## Other hazards

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances or 3.2 Mixtures

#### 1 kg Aluminium oxide G/UV<sub>254</sub>

Chemical:	<i>aluminium oxide</i>	CAS No.:	1344-28-1
Classification:	No criteria for classification or naming of chemical not required.		
Formula:	Al <sub>2</sub> O <sub>3</sub>		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119529248-35-xxxx		
EC No.:	215-691-6		
RTECS:	BD1200000	MFCID:	00003424
KE No.:	KE-01012		
Concentration:	70 - <95 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

Chemical:	<i>fluorescent indicator 254 nm</i>	CAS No.:	68411-47-2
Classification:	No criteria for classification or naming of chemical not required.		
Formula:	Mg/ZnSiO <sub>4</sub>		
REACH Reg. No.:	01-2120757443-52-0000		
EC No.:	271-896-0		
Concentration:	1 - <5 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

Chemical:	<i>calcium sulfate</i>	CAS No.:	7778-18-9
Classification:	No criteria for classification or naming of chemical not required.		
Formula:	CaSO <sub>4</sub>		
Pseudonym:	sulfate of lime [Gypsum is the dihydrate form ]		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119444918-26-xxxx		
EC No.:	231-900-3		
RTECS:	WS6920000	MFCID:	00010912
Concentration:	1 - <10 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

### 3.3 Remarks

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately.

#### 4.1.1 After SKIN Contact

Remove dust with wetted tissue.

#### 4.1.2 After EYE Contact

Rub dust with teardrops from eyes

#### 4.1.3 After INHALATION of vapours

After inhalation of dust fresh air should be inhaled. ---

#### 4.1.4 After ORAL Intake

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

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

No additionally recommendations. ---

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

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

None.

### 5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic.

### 5.4 Additional information

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## SECTION 6: Accidental release measures

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

Avoid dusting. Do not breathe dust. .

### 6.2 Environmental precautions

not necessary

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

Remove remaining dust with a vacuum cleaner. If there is no vacuum cleaner, wet dust well and remove mechanical (Inhalation protection). Clean working area with water. Flush used water into drains.

### 6.4 Reference to other sections

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid dusting.

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

The original product package of MACHEREY-NAGEL allows a safe storage.

Storage class (VCI): 12

Water hazard class (DE): 1

#### 7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage.

### 7.3 Specific end use(s)

Product for analytical use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 1 kg Aluminium oxide G/UV<sub>254</sub>

Chemical: *aluminium oxide*

CAS No.: 1344-28-1

DNEL: [inh, sys] 15.63 mg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers)

TRGS 900 (DE): 1,25 A/ 10 E mg/m<sup>3</sup>

A/a aveoles passing, E/e respirable, G total

Short-term exposure factor: 4

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

NIOSH: not listed

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: 15<sub>total</sub> / 5<sub>resp.</sub> mg/m<sup>3</sup>

Chemical: *fluorescent indicator 254 nm*

CAS No.: 68411-47-2

Chemical: *calcium sulfate*

CAS No.: 7778-18-9

DNEL: 5082<sub>inh</sub> mg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers)

PNEC<sub>(fresh water)</sub>: not acute mg/L

PNEC = Predicted No Effect Concentration

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TRGS 900 (DE): 6A mg/m<sup>3</sup>  
A/a aveoles passing, E/e respirable, G total

NIOSH: not for gypsum - TWA 15 (total)/ 5 (resp) mg/m<sup>3</sup>  
[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: TWA 15 (total)/ 5 (resp) mg/m<sup>3</sup>

## 8.2 Exposure controls

Not necessary.

### 8.2.1 Respiratory protection

Not necessary. Use for dusty working a dust mask or a dust protection filter, class P1. Use for regularly working with dry powders a dust mask or a dust protection filter, class P3.

### 8.2.2 Hand protection

Not necessary, recommended for often use.

### 8.2.3 Eye protection

Not necessary.

### 8.2.4 Skin protection

Not necessary.

### 8.2.5 Personal hygiene

Information not necessary.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

1 kg Aluminium oxide G/UV<sub>254</sub>

Appearance: powder (solid)

Colour: yellow

Odor: odorless

pH:

6,5-7,5

Particle size:

3-24 µm

### 9.2 Other information

Relevant Properties of Substance Group

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None

### 10.2 Chemical stability

No known instability.

### 10.3 Possibility of hazardous reactions

None.

### 10.4 Conditions to avoid

Not known. ---

### 10.5 Incompatible materials

Not known.

### 10.6 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Following information is valid for pure substances.

1 kg Aluminium oxide G/UV<sub>254</sub>

Chemical: aluminium oxide

CAS No.: 1344-28-1

TSCA Inventory: listed

California Proposition 65 List: not listed

ACGIH: 10 mg/m<sup>3</sup>

Australia NICNAS: not listed

Canada CEPA 1999: DSL yes

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Japan CSCL/PRTR: not listed, Japan PDSCCL: not listed  
 Japan ISHL: listed  $\geq 1,0\%$ / $\geq 1,0\%$ , Article 57-2 (SDS required)  
 South Korea TCCA: not listed  
 Korea Exist.Chem.Inventory: KE-01012  
 LD50<sub>orl rat</sub>: >2000 mg/kg  
 LC50<sub>inh rat</sub>: 7.1 mg/L  
 Avoid inhalation of dust.  
 TRGS 905 (DE): R<sub>F</sub> D

Chemical: *fluorescent indicator 254 nm* CAS No.: 68411-47-2  
 Avoid inhalation of dust.

Chemical: *calcium sulfate* CAS No.: 7778-18-9  
 TSCA Inventory: listed  
 Exposure Routes: inhalation, skin and/or eye contact  
 Target Organs: Eyes, skin, respiratory system  
 Symptoms: irritation eyes, skin, upper respiratory system; conjunctivitis; rhinitis, epistaxis (nosebleed)  
 LD50<sub>orl rat</sub>: >10 g/kg  
 LC50<sub>ihl rat</sub>: > 2.61 mg/L  
 Avoid inhalation of dust.

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 1 kg Aluminium oxide G/UV<sub>254</sub>

Chemical: *aluminium oxide* CAS No.: 1344-28-1  
 LC50<sub>fish/96h</sub>: >100 mg/L  
 EC50<sub>daphnia/48h</sub>: >100 mg/L  
 Water hazard class (DE): 0 WGK No.: 1346  
 Storage class (VCI): 13

Chemical: *fluorescent indicator 254 nm* CAS No.: 68411-47-2

Chemical: *calcium sulfate* CAS No.: 7778-18-9  
 PNEC<sub>(fresh water)</sub>: not acute mg/L  
 PNEC = Predicted No Effect Concentration  
 Water hazard class (DE): 1  
 Storage class (VCI): 12-13

### 12.2 Persistence and degradability

not necessary

### 12.3 Bioaccumulative potential

not necessary

### 12.4 Mobility in soil

not necessary

### 12.5 Results of PBT and vPvB assessment

no data available

### 12.6 Other adverse effects

no additional data available

## SECTION 13: Disposal considerations

Not necessary.

### 13.1 Waste treatment methods

GENERAL: Empty solids into municipal waste, empty liquids diluted into drains.

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## SECTION 14: Transport information

14.1 - 14.4 Not necessary

### 14.5 Environmental hazards

none

### 14.6 Special precautions for user

not necessary

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

## SECTION 15: Regulatory information

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

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013  
 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on November 2010, according to Directive 98/24/EC  
 Look for your country-specific regulations.

### 15.2 Chemical safety assessment

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## SECTION 16: Other information

### 16.1 List of H and P phrases

#### 16.1.1 List of relevant H phrases

#### 16.1.2 List of relevant P phrases

### 16.2 Training advice

Regular safety training.

### 16.3 Recommended restriction on use

None

### 16.4 Further information

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.  
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### 16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS  
 Regulation 487/2013/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress  
 Regulation 669/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress  
 TRGS 900, German engineering rules governing limits in air at work, updated 03/2018  
 SUVA .CH, Limits in air at work 2009, revised on 01.2009  
 TRGS 559, German engineering rules governing mineralic dust from July 2011  
 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

#### Revisions/Updates

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU