

Safety Data Sheet

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

REF: 816030.1

Aluminiumoxid N, 1 kg

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Printing date: 11.02.2019

Date of issue: 05.06.2018

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

1.1 Product identifier

REF 816030.1
Product name Aluminiumoxid N, 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 N

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 (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 N

Signal word Do not need labelling as hazardous
-

No hazard class

2.2 Label elements

1 kg Aluminium oxide N

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

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

1 kg Aluminium oxide N

Chemical:	<i>aluminium oxide</i>	CAS No.:	1344-28-1
Classification:	No criteria for classification or naming of chemical not required.		
Formula:	Al ₂ O ₃		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119529248-35-xxxx		
EC No.:	215-691-6		
RTECS:	BD1200000	MFCID:	00003424
KE No.:	KE-01012		
Concentration:	95 - <100 %		
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 ₄		
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

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

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

No additionally recommendations. ---

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

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

5.4 Additional information

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

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 N

Chemical: *aluminium oxide*

CAS No.: 1344-28-1

DNEL: [inh, sys] 15.63 mg/m³
DNEL = Derived No-Effect Level (for workers)

TRGS 900 (DE): 1,25 A/ 10 E mg/m³
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^{total}/5^{resp.} mg/m³

Chemical: *calcium sulfate*

CAS No.: 7778-18-9

DNEL: 5082^{inh} mg/m³
DNEL = Derived No-Effect Level (for workers)

PNEC^(fresh water): not acute mg/L
PNEC = Predicted No Effect Concentration

TRGS 900 (DE): 6A mg/m³
A/a aveoles passing, E/e respirable, G total

NIOSH: not for gypsum - TWA 15 (total)/ 5 (resp) mg/m³
[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/m³

8.2 Exposure controls

Not necessary.

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- 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 N
 Appearance: powder (solid) Colour: colourless Odor: odorless
 pH: 6,5-7,5
 Particle size: 3-24 µm

9.2 Other information

Relevant Properties of Substance Group

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 N

Chemical:	<i>aluminium oxide</i>	CAS No.:	1344-28-1
TSCA Inventory:	listed	California Proposition 65 List:	not listed
ACGIH:	10 mg/m ³		
Australia NICNAS:	not listed	Canada CEPA 1999:	DSL yes
Japan CSCL/PRTR:	not listed, Japan PDSCl:		not listed
Japan ISHL:	listed ≥1,0%/≥1,0%, Article 57-2 (SDS required)		
South Korea TCCA:	not listed		
Korea Exist.Chem.Inventory:	KE-01012		
LD50 _{orl rat} :	>2000 mg/kg		
LC50 _{inh rat} :	7.1 mg/L		
Avoid inhalation of dust.			
TRGS 905 (DE):	R _F D		

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Chemical:	<i>calcium sulfate</i>	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 _{orl rat} :	>10 g/kg	
LC50 _{ihl rat} :	> 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 N

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

Chemical:	<i>calcium sulfate</i>	CAS No.: 7778-18-9
PNEC _(fresh water) :	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.

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

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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

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

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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, 4th adaptation of CLP regulation to technical and scientific progress
 Regulation 669/2018/EU, 4th 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