

Safety Data Sheet

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

REF: 815030.1

Aluminium oxide 90 acidic, 1 kg

Page: 1/6

Printing date: 15.11.2021

Date of issue: 08.01.2018

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

1.1 Product identifier

REF 815030.1
Product name Aluminium oxide 90 acidic, 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 90 acidic

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

Relevant identified uses

- a. 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.
- b. Product used as cleaning and filtration aid. Codes: SU 3, 9, 23, PC 2, 20, 29, 37, PROC 3, 5, ERC 4, 8a, 8b
This exposure scenario is also integrated into sections 1-16.
CELITE is a registered trademark of Imerys Minerals California, Inc.
FLOREX is a registered trademark of Firmenich SA Corp., CH

Uses advised against

not described

1.3 Details of the supplier of the safety data sheet

Manufactured by:
MACHEREY-NAGEL GmbH & Co. KG
Valenciennener Str. 11, 52355 Düren, 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 90 acidic

Signal word Do not need labelling as hazardous
-

No hazard class

2.2 Label elements

1 kg Aluminium oxide 90 acidic

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. ---

Safety Data Sheet

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

REF: 815030.1

Aluminium oxide 90 acidic, 1 kg

Page: 2/6

Printing date: 15.11.2021

Date of issue: 08.01.2018

Information pertaining to particular risks to human and possible symptoms

Avoid inhalation of dust. ---

Information pertaining to particular risks to the environment

Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

1 kg Aluminium oxide 90 acidic

Chemical: *aluminium oxide*

CAS No.: 1344-28-1

Classification: No criteria for classification or naming of chemical not required.

Formula: Al_2O_3

TSCA Inventory: listed

REACH Reg. No.: 01-2119529248-35-xxxx

EC No.: 215-691-6

RTECS: BD1200000

MFCD: 00003424

KE No.: KE-01012

Concentration: 95 - <100 %

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

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

5.4 Additional information

Safety Data Sheet

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

REF: 815030.1

Aluminium oxide 90 acidic, 1 kg

Page: 3/6

Printing date: 15.11.2021

Date of issue: 08.01.2018

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): 13

Water hazard class (DE): 0

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)

a. Product for analytical use.

b. Product used as cleaning and filtration aid.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1 kg Aluminium oxide 90 acidic

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

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.

Safety Data Sheet

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

REF: 815030.1

Aluminium oxide 90 acidic, 1 kg

Page: 4/6

Printing date: 15.11.2021

Date of issue: 08.01.2018

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

1 kg Aluminium oxide 90 acidic

Appearance: powder (solid)

Colour: white

Odor: odorless

pH:

4-5

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. None ---

10.5 Incompatible materials

Not known. None.

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 90 acidic

Chemical: *aluminium oxide*

CAS No.: 1344-28-1

TSCA Inventory: listed

California Proposition 65 List: not listed

ACGIH: 10 mg/m³

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

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

1 kg Aluminium oxide 90 acidic

Chemical: *aluminium oxide*

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

Safety Data Sheet

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

REF: 815030.1

Aluminium oxide 90 acidic, 1 kg

Page: 5/6

Printing date: 15.11.2021

Date of issue: 08.01.2018

- 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

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**

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.

MACHEREY-NAGEL GmbH & Co. KG makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly MACHEREY-NAGEL GmbH & Co. KG will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

Safety Data Sheet

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

REF: 815030.1

Aluminium oxide 90 acidic, 1 kg

Page: 6/6

Printing date: 15.11.2021

Date of issue: 08.01.2018

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
 Regulation 1480/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress
 Regulation 849/2021/EU, 4th adaptation of CLP regulation to technical and scientific progress
 TRGS 900, German engineering rules governing limits in air at work, updated 03/2019
 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