

**Nabaltec AG**  
**92409 Schwandorf**

Date printed 11.04.2023, Revision 14.07.2022

Version 15.0. Supersedes version: 14.0

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

### 1.1 Product identifier

#### Valid for all product variants

Registration number	01-2119555298-28-XXXX
IUPAC	Boehmite (Al(OH)O)
EINECS/ELINCS	215-284-3
CAS	1318-23-6

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

#### 1.2.1 Relevant uses

Flame retardant, additive, filler, pigment, ground chemical, health care, personal care, viscosity adjustor

#### 1.2.2 Uses advised against

None known.

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

Company	Nabaltec AG Postfach 1860 92409 Schwandorf / GERMANY Phone +49 (0) 9431-53-0 Fax +49 (0) 9431-53-289 Homepage <a href="http://www.nabaltec.de">www.nabaltec.de</a> E-mail <a href="mailto:info@nabaltec.de">info@nabaltec.de</a>
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#### Address enquiries to

Technical information	<a href="mailto:info@nabaltec.de">info@nabaltec.de</a>
Safety Data Sheet	<a href="mailto:sdb@chemiebuero.de">sdb@chemiebuero.de</a> (No dispatch of safety data sheets) Safety data sheets are available from the supplier.

### 1.4 Emergency telephone number

Company	+49 (0)9431 53222 (24h) +49 (0)9431 530 (24h)
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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

No classification.

### 2.2 Label elements

Hazard pictograms	
Hazard statements	none

### 2.3 Other hazards

Physico-chemical hazards	not applicable
Human health dangers	Contains no ingredients with endocrine-disrupting properties.
Environmental hazards	Does not contain any PBT or vPvB substances.
Other hazards	none

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### SECTION 3: Composition / Information on ingredients

#### 3.1 Substances

The product is a substance.

Range [%]	Substance
>99	Boehmite (Al(OH)O)
	CAS: 1318-23-6, EINECS/ELINCS: 215-284-3, Reg-No.: 01-2119555298-28-XXXX

**Comment on component parts** No dangerous components.  
Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

#### 3.2 Mixtures

not applicable

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

<b>General information</b>	Change powdered clothing.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Ingestion</b>	Rinse out mouth and give plenty of water to drink. In the event of symptoms seek medical treatment.

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

None known.

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

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.
<b>Extinguishing media that must not be used</b>	Full water jet.

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

none

#### 5.3 Advice for firefighters

Use self-contained breathing apparatus.  
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

### SECTION 6: Accidental release measures

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

Use breathing apparatus if exposed to dust.  
Avoid dust formation.  
Ensure adequate ventilation.

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## 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

## 6.3 Methods and material for containment and cleaning up

Take up mechanically. Avoid production of dust.

Dispose of absorbed material in accordance with the regulations.

## 6.4 Reference to other sections

See SECTION 8+13

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

Avoid the formation and deposition of dust.

Provide vacuuming if dust raised.

Use only in well-ventilated areas.

Wash hands before breaks and after work.

Use barrier skin cream.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with food and animal food/diet.

Store in a dry place.

## 7.3 Specific end use(s)

See product use, SECTION 1.2

# SECTION 8: Exposure controls / personal protection

## 8.1 Control parameters

### Ingredients with occupational exposure limits to be monitored (EU)

not relevant

### DNEL

Substance
Boehmite (Al(OH)O), CAS: 1318-23-6
Industrial, inhalative, Long-term - local effects, 3.59 mg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 2.37 mg/kg bw/day

### PNEC

Substance
Boehmite (Al(OH)O), CAS: 1318-23-6
freshwater, 74.9 µg/L
sewage treatment plants (STP), 20 mg/L

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## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Pay attention to dust limit value (ACGIH-2011: 10 mg/m <sup>3</sup> particle inhalable; 1,25 mg/m <sup>3</sup> particle respirable). Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	0.11mm Nitrile rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Protective clothing (EN 340)
<b>Other</b>	Do not inhale dust. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, filter P2. (DIN EN 143)
<b>Thermal hazards</b>	none
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	solid
Form	powder
Color	white
Odor	odourless
Odour threshold	not applicable
pH-value	9 - 10 (20°C / 68°F) (aqueous suspension)
pH-value [1%]	not applicable
Boiling point [°C]	not relevant
Flash point [°C]	not applicable
Flammability	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not applicable
Density [g/cm <sup>3</sup> ]	3.0 (20°C / 68°F)
Relative density	not determined
Bulk density [kg/m <sup>3</sup> ]	not determined
Solubility in water	<0.00009 g/l (20°C / 68°F)
Solubility other solvents	not required
Partition coefficient [n-octanol/water]	not applicable
Kinematic viscosity	not applicable
Relative vapour density	not applicable
Evaporation speed	not applicable
Melting point [°C]	not relevant
Auto-ignition temperature [°C]	not self-igniting
Decomposition temperature [°C]	> 340°C / 644°F
Particle characteristics	not relevant

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

The product is stable under standard conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known.

### 10.4 Conditions to avoid

Strong heating, because the thermal decomposition starts from 340°C / 644°F.

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### 10.5 Incompatible materials

Acids  
Alkalies

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

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**SECTION 11: Toxicological information**

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute oral toxicity**

Substance
Boehmite (Al(OH)O), CAS: 1318-23-6
LD50, oral, Rat, > 2000 mg/kg bw
NOAEL, oral, Rat, 30 mg/kg bw/day chronic (analogon)

**Acute dermal toxicity**

Product
Based on the available information, the classification criteria are not fulfilled.

**Acute inhalational toxicity**

Substance
Boehmite (Al(OH)O), CAS: 1318-23-6
LC50, inhalative, Rat, 7.6 mg/l 4h
NOAEC, inhalative, Rat, 70 mg/m <sup>3</sup> subchronic (analogon)

**Serious eye damage/irritation** Non-corrosive / non-irritating.

Substance
Boehmite (Al(OH)O), CAS: 1318-23-6
Eye, non-irritating

**Skin corrosion/irritation** Non-corrosive / non-irritating.

Substance
Boehmite (Al(OH)O), CAS: 1318-23-6
dermal, non-irritating

**Respiratory or skin sensitisation** Non-sensitizing.

Substance
Boehmite (Al(OH)O), CAS: 1318-23-6
inhalative, non-sensitizing
dermal, non-sensitizing

**Specific target organ toxicity — single exposure** No classification.

Substance
Boehmite (Al(OH)O), CAS: 1318-23-6
inhalative, non-irritating

**Specific target organ toxicity — repeated exposure** No classification.

Substance
Boehmite (Al(OH)O), CAS: 1318-23-6
inhalative, no adverse effect observed
oral, no adverse effect observed

**Mutagenicity** There is no evidence of any mutagenic effects.

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<b>Reproduction toxicity</b>	There is no evidence of any reproductive toxicity effects.
<b>Carcinogenicity</b>	There is no evidence of any carcinogenic effects.
<b>Aspiration hazard</b>	No classification.
<b>General remarks</b>	

none

**11.2 Information on other hazards**

<b>Endocrine disrupting properties</b>	Contains no ingredients with endocrine-disrupting properties.
<b>Other information</b>	none

**SECTION 12: Ecological information**

**12.1 Toxicity**

Substance
Boehmite (Al(OH)O), CAS: 1318-23-6
LC50, Salmo trutta, > 100 mg/l
EC50, Daphnia magna, > 100 mg/l
EC50, Selenastrum capricornutum, > 100 mg/l

**12.2 Persistence and degradability**

<b>Behaviour in environment compartments</b>	not determined
<b>Behaviour in sewage plant</b>	not determined
<b>Biological degradability</b>	not applicable

**12.3 Bioaccumulative potential**

not applicable

**12.4 Mobility in soil**

not determined

**12.5 Results of PBT and vPvB assessment**

not applicable

**12.6 Endocrine disrupting properties**

Contains no ingredients with endocrine-disrupting properties.

**12.7 Other adverse effects**

None known.



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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

##### Product

For recycling, consult manufacturer.

##### Waste no. (recommended)

061399

##### Contaminated packaging

Uncontaminated packaging may be reused.  
 Uncontaminated packaging may be taken for recycling.

##### Waste no. (recommended)

150101  
 150102

### SECTION 14: Transport information

#### 14.1 UN number or ID number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

#### 14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

#### 14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

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#### 14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

#### 14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Maritime transport in bulk according to IMO instruments

not applicable

### SECTION 15: Regulatory information

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

**EEC-REGULATIONS** 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

**TRANSPORT-REGULATIONS** ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)

##### NATIONAL REGULATIONS (EU):

- Observe employment restrictions for people no

- VOC (2010/75/CE) 0 %

#### 15.2 Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

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## SECTION 16: Other information

### 16.1 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ATE = acute toxicity estimate  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
EL50 = Median effective loading  
ELINCS = European List of Notified Chemical Substances  
EmS = Emergency Schedules  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
IVIS = In vitro irritation score  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
LL50 = Median lethal loading  
LQ = Limited Quantities  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
STP = Sewage Treatment Plant  
TLV@/TWA = Threshold limit value – time-weighted average  
TLV@STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

### 16.2 Other information

**Classification procedure**

**Modified position**

none



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