

Nabaltec AG
92409 Schwandorf

Date printed 20.09.2022, Revision 20.09.2022

Version 04. Supersedes version: 03

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

1.1 Product identifier

NABALOX®

Valid for all product variants

| | |
|---------------------|-----------------------|
| Registration number | 01-2119529248-35-0036 |
| IUPAC | Aluminium oxide |
| EINECS/ELINCS | 215-691-6 |
| CAS | 1344-28-1 |

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

1.2.1 Relevant uses

Raw material in the refractory, ceramics, glass and chemicals industries, abrasive and polishing compound, additive, filler, pigment, body care, health care

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 www.nabaltec.de E-mail info@nabaltec.de |
|---------|--|

Address enquiries to

| | |
|-----------------------|--|
| Technical information | info@nabaltec.de |
| Safety Data Sheet | sdb@chemiebuero.de |

1.4 Emergency telephone number

| | |
|---------|--|
| Company | +49 (0)9431 53222 (24h) +49 (0)9431 530 (24h) |
|---------|--|

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

No classification.

2.2 Label elements

| | |
|-------------------|------|
| Hazard pictograms | |
| Hazard statements | none |

2.3 Other hazards

| | |
|-----------------------|---|
| Human health dangers | Prolonged and excessive contact can cause irritation of the respiratory tract. Contains no ingredients with endocrine-disrupting properties. |
| Environmental hazards | Does not contain any PBT or vPvB substances. |
| Other hazards | Further hazards were not determined with the current level of knowledge. |

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SECTION 3: Composition / Information on ingredients

3.1 Substances

The product is a substance.

| Range [%] | Substance |
|-----------|---|
| > 99.5 | Aluminium oxide CAS: 1344-28-1, EINECS/ELINCS: 215-691-6, Reg-No.: 01-2119529248-35-0036 |

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

| | |
|----------------------------|---|
| General information | Change powdered clothing. |
| Inhalation | Ensure supply of fresh air. In the event of symptoms seek medical treatment. |
| Skin contact | When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists. |
| Eye contact | 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. |
| Ingestion | 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

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

5.2 Special hazards arising from the substance or mixture

none

5.3 Advice for firefighters

Fire residues 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.

6.2 Environmental precautions

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

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6.3 Methods and material for containment and cleaning up

Take up mechanically.
Avoid raising dust.
Dispose of absorbed material in accordance within 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.

Wash hands before breaks and after work.
Use barrier skin cream.
Do not eat, drink, smoke or take drugs at work.

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 (GB)

| |
|---|
| Substance |
| Aluminium oxide |
| CAS: 1344-28-1, EINECS/ELINCS: 215-691-6, Reg-No.: 01-2119529248-35-0036 |
| Long-term exposure: 10 mg/m ³ , inhalable dust (respirable dust: 4 mg/m ³) |

DNEL

| |
|--|
| Substance |
| Aluminium oxide, CAS: 1344-28-1 |
| Industrial, inhalative, Long-term - local effects, 3 mg/m ³ |
| Industrial, inhalative, Long-term - systemic effects, 3 mg/m ³ |
| general population, oral, Long-term - systemic effects, 1.32 mg/kg bw/day |
| general population, inhalative, Long-term - local effects, 0.75 mg/m ³ |
| general population, inhalative, Long-term - systemic effects, 0.75 mg/m ³ |

PNEC

| |
|---|
| Substance |
| Aluminium oxide, CAS: 1344-28-1 |
| There are no PNEC values established for the substance. |

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8.2 Exposure controls

| | |
|--|--|
| Additional advice on system design | Ensure adequate ventilation on workstation. Pay attention to dust limit value (ACGIH-2011: 10 mg/m ³ particle inhalable; 1,25 mg/m ³ 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. |
| Eye protection | Safety glasses. (EN 166:2001) |
| Hand protection | 0.11mm Nitrile rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information. |
| Skin protection | Protective clothing (EN 340) |
| Other | Avoid contact with eyes and skin. Do not inhale dust. 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. |
| Respiratory protection | 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) |
| Thermal hazards | none |
| Delimitation and monitoring of the environmental exposition | Protect the environment by applying appropriate control measures to prevent or limit emissions. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---------------------------|
| Physical state | powder |
| Color | white |
| Odor | odourless |
| Odour threshold | not applicable |
| pH-value | not applicable |
| pH-value [1%] | not applicable |
| Boiling point [°C] | 2980 |
| Flash point [°C] | not applicable |
| Flammability (solid, gas) [°C] | not applicable |
| Lower explosion limit | not applicable |
| Upper explosion limit | not applicable |
| Oxidising properties | no |
| Vapour pressure/gas pressure [kPa] | not applicable |
| Density [g/cm³] | 3.4-3.9 (20 °C / 68,0 °F) |
| Relative density | not determined |
| Bulk density [kg/m³] | not determined |
| Solubility in water | 0.00002 g/l (20°C) |
| Solubility other solvents | No information available. |
| Partition coefficient [n-octanol/water] | not applicable |
| Kinematic viscosity | not applicable |
| Relative vapour density | not applicable |
| Evaporation speed | not applicable |
| Melting point [°C] | 2050 |
| Auto-ignition temperature | not applicable |
| Decomposition temperature [°C] | not applicable |
| Particle characteristics | not applicable |

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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

none

10.5 Incompatible materials

none

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

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|--|
| Substance |
| Aluminium oxide, CAS: 1344-28-1 |
| LD50, oral, Rat, > 2000 mg/kg bw (analogue) |
| NOAEL, oral, Rat, 30 mg/kg bw/day (analogue) |

Acute dermal toxicity

Acute inhalational toxicity

| |
|--|
| Substance |
| Aluminium oxide, CAS: 1344-28-1 |
| LC50, inhalative, Rat, 7.6 mg/l 4h (analogue) |
| NOAEC, inhalative, Rat, 70 mg/m ³ subchronic (analogue) |

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

| |
|---------------------------------|
| Substance |
| Aluminium oxide, CAS: 1344-28-1 |
| Eye, non-irritating |

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

| |
|---------------------------------|
| Substance |
| Aluminium oxide, CAS: 1344-28-1 |
| dermal, non-irritating |

Respiratory or skin sensitisation Non-sensitizing.

| |
|---------------------------------|
| Substance |
| Aluminium oxide, CAS: 1344-28-1 |
| inhalative, non-sensitizing |
| dermal, non-sensitizing |

Specific target organ toxicity — single exposure No classification.

Specific target organ toxicity — repeated exposure No classification.

| |
|---|
| Substance |
| Aluminium oxide, CAS: 1344-28-1 |
| NOAEL, oral, Rat, 113 mg/kg bw/day (chronic), The effects observed are not sufficient for classification. |
| NOAEC, inhalative, Rat, 75 mg/m ³ (chronic), no adverse effect observed |

Mutagenicity There is no evidence of any mutagenic effects.

| |
|--------------------------------------|
| Substance |
| Aluminium oxide, CAS: 1344-28-1 |
| in vivo, no adverse effect observed |
| in vitro, no adverse effect observed |

Reproduction toxicity There is no evidence of any reproductive toxicity effects.

| |
|-----------|
| Substance |
|-----------|

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Aluminium oxide, CAS: 1344-28-1

NOAEL, oral, Rat, 1004 mg/kg bw/day (subacute), no adverse effect observed, Effect on developmental toxicity,

NOAEL, oral, Rat, 567 mg/kg bw/day (subacute), no adverse effect observed, Effect on fertility,

Carcinogenicity There is no evidence of any carcinogenic effects.

Substance

Aluminium oxide, CAS: 1344-28-1

NOAEC, inhalative, Rat, 75 mg/m³ (chronic), no adverse effect observed

Aspiration hazard Does not contain a relevant substance that meets the classification criteria.

General remarks

none

11.2 Information on other hazards

Endocrine disrupting properties Contains no ingredients with endocrine-disrupting properties.

Other information

SECTION 12: Ecological information

12.1 Toxicity

Substance

Aluminium oxide, CAS: 1344-28-1

LC50, Salmo trutta, > 100 mg/l (analogue)

EC50, Daphnia magna, > 100 mg/l (analogue)

EC50, Selenastrum capricornutum, > 100 mg/l (analogue)

12.2 Persistence and degradability

Behaviour in environment compartments not applicable

Behaviour in sewage plant not applicable

Biological degradability not applicable

12.3 Bioaccumulative potential

not applicable

12.4 Mobility in soil

not applicable

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.

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 (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.

- 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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