

Nabaltec AG
92409 Schwandorf

Date printed 27.09.2021, Revision 04.05.2021

Version 02. Supersedes version: 01

Page 1 / 10

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

1.1 Product identifier

GRANALOX®

Valid for all product variants

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

1.2.1 Relevant uses

Ceramics, refractory industry

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
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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)
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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
Precautionary statements	Although this product does not require a hazard warning label, we recommend that the safety advice should be observed. P261 Avoid breathing dust. P280 Wear eye protection. P284 In case of inadequate ventilation wear respiratory protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+P352 IF ON SKIN: Wash with plenty of water / soap.

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.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

Nabaltec AG
92409 Schwandorf

Date printed 27.09.2021, Revision 04.05.2021

Version 02. Supersedes version: 01

Page 2 / 10

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
80 - 99	Aluminium oxide CAS: 1344-28-1

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

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

Irritant effects

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	All extinguishing media are suitable but method must take into account the surrounding area to minimize dispersion.
Extinguishing media that must not be used	Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
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.
Use personal protective clothing.

6.2 Environmental precautions

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

Nabaltec AG
92409 Schwandorf

Date printed 27.09.2021, Revision 04.05.2021

Version 02. Supersedes version: 01

Page 3 / 10

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
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.

Nabaltec AG
92409 Schwandorf

Date printed 27.09.2021, Revision 04.05.2021

Version 02. Supersedes version: 01

Page 4 / 10

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; 3 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	0,11 mm 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	granules
Color	white
Odor	odourless
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not determined
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]	not determined
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 determined
Kinematic viscosity	not applicable
Relative vapour density	not applicable
Evaporation speed	not applicable
Melting point [°C]	2050
Auto-ignition temperature	not self-igniting
Decomposition temperature [°C]	not determined
Particle characteristics	No information available.

Nabaltec AG
92409 Schwandorf

Date printed 27.09.2021, Revision 04.05.2021

Version 02. Supersedes version: 01

Page 5 / 10

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.

Nabaltec AG
92409 Schwandorf

Date printed 27.09.2021, Revision 04.05.2021

Version 02. Supersedes version: 01

Page 6 / 10

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Product
ATE-mix, oral, > 2000 mg/kg
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

Product
ATE-mix, dermal, > 2000 mg/kg

Acute inhalational toxicity

Product
ATE-mix, inhalativ (dust), > 5 mg/l 4h
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

Does not contain a relevant substance that meets the classification criteria.
Toxicological data of complete product are not available.
Based on the available information, the classification criteria are not fulfilled.

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

Skin corrosion/irritation

Does not contain a relevant substance that meets the classification criteria.
Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

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

Respiratory or skin sensitisation

Does not contain a relevant substance that meets the classification criteria.
Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

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

Specific target organ toxicity — single exposure

Does not contain a relevant substance that meets the classification criteria.
Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

Specific target organ toxicity — repeated exposure

Does not contain a relevant substance that meets the classification criteria.
Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

Nabaltec AG
92409 Schwandorf

Date printed 27.09.2021, Revision 04.05.2021

Version 02. Supersedes version: 01

Page 7 / 10

Substance
Aluminium oxide, CAS: 1344-28-1
NOAEC, inhalative, Rat, 75 mg/m ³ (chronic), no adverse effect observed

Mutagenicity Does not contain a relevant substance that meets the classification criteria.
Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

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

Reproduction toxicity Does not contain a relevant substance that meets the classification criteria.
Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

Substance
Aluminium oxide, CAS: 1344-28-1
NOAEL, oral, Rat, 567 mg/kg bw/day (subacute), no adverse effect observed

Carcinogenicity Does not contain a relevant substance that meets the classification criteria.
Based on the available information, the classification criteria are not fulfilled.
Toxicological data of complete product are not available.

Substance
Aluminium oxide, CAS: 1344-28-1
NOAEC, inhalative, Rat, 75 mg/m ³ (chronic), no adverse effect observed

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

General remarks

none

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 determined
Behaviour in sewage plant not determined
Biological degradability not determined

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

12.4 Mobility in soil

not determined

Nabaltec AG
92409 Schwandorf

Date printed 27.09.2021, Revision 04.05.2021

Version 02. Supersedes version: 01

Page 8 / 10

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with national regulations.

Product

For recycling, consult manufacturer.

Contaminated packaging

Uncontaminated packaging may be reused.

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

Nabaltec AG
92409 Schwandorf

Date printed 27.09.2021, Revision 04.05.2021

Version 02. Supersedes version: 01

Page 9 / 10

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

TRANSPORT-REGULATIONS ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)

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) not applicable

15.2 Chemical safety assessment

not applicable

Nabaltec AG
92409 Schwandorf

Date printed 27.09.2021, Revision 04.05.2021

Version 02. Supersedes version: 01

Page 10 / 10

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

SECTION 2 been added: Contains no ingredients with endocrine-disrupting properties.
SECTION 8 been added: Short term: filter apparatus, filter P2. (DIN EN 143)



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