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

1.1 Product identifier

Blasting Sand (Aluminium Oxide) for Pneumatic Sandblaster (BGS 70056)
Article number: 70056

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

1.2.1 Relevant uses

See product information.

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

BGS technic KG
Bandwirkerstr. 3
42929 Wermelskirchen / GERMANY
Phone +49 (0)2196 72048-0
Fax +49 (0)2196 72048-20
Homepage www.bgstechnic.com
E-mail mail@bgs-technic.de

Address enquiries to

Technical information mail@bgs-technic.de

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

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

Eye Dam. 1: H318 Causes serious eye damage.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms

Signal word DANGER

Contains: Calcium oxide

Hazard statements H318 Causes serious eye damage.

Precautionary statements P280 Wear protective gloves / protective clothing / eye protection / face 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.
P310 Immediately call a POISON CENTER / doctor.

Special labelling EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

2.3 Other hazards

Human health dangers May cause irritation of respiratory organs (powder or dust).

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

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
10 - < 20	Titanium-dioxide
	CAS: 1317-70-0, EINECS/ELINCS: 215-280-1
1 - <10	Calcium oxide
	CAS: 1305-78-8, EINECS/ELINCS: 215-138-9
	GHS/CLP: Skin Irrit. 2: H315 - STOT SE 3: H335 - Eye Dam. 1: H318

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

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.
Consult a doctor immediately.

Ingestion Rinse out mouth and give plenty of water to drink.
Do not induce vomiting.
Get medical advice.

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 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

Risk of formation of toxic pyrolysis products.

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

Ensure adequate ventilation.
Use personal protective equipment (protective gloves, safety glasses, protective clothing).
Use breathing apparatus if exposed to dust.

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 within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Under dusty conditions, employees should wear coveralls or other suitable work clothing.
Contaminated clothing must be vacuumed before removal and respiratory protection should be the last article of clothing removed. DO NOT REMOVE dusts from clothing by blowing or shaking.

Wash hands before breaks and after work.
Remove soiled or soaked clothing.
Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

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
Titanium-dioxide
CAS: 1317-70-0, EINECS/ELINCS: 215-280-1
Long-term exposure: 4 mg/m³, respirable; total inhalable: TWA=10 mg/m³
Calcium oxide
CAS: 1305-78-8, EINECS/ELINCS: 215-138-9
Long-term exposure: 2 mg/m³

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Calcium oxide
CAS: 1305-78-8, EINECS/ELINCS: 215-138-9
Eight hours: 1 mg/m³, Respirable fraction.
Short-term (15-minute): 4 mg/m³

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Pay attention to dust limit value (ACGIH-2011: 10 mg/m³ particle inhalable; 3 mg/m³ particle respirable).
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	0,4 mm; butyl rubber, > 120 min (EN 374) 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.
Respiratory protection	Respiratory protection in the case of dust formation. short term: filter apparatus, filter P1 (DIN EN 143)
Thermal hazards	none
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	fine-grained
Color	grey
Odor	odourless
Odour threshold	not determined
pH-value	not determined
pH-value [1%]	not determined
Boiling point [°C]	not applicable
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/ml]	not determined
Bulk density [kg/m³]	not determined
Solubility in water	not determined
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]	not determined
Auto-ignition temperature	not determined
Decomposition temperature [°C]	not determined
Particle characteristics	0,21 - 0,35 mm (Grain 40 - 60)

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

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Product
ATE-mix, oral, Based on the available information, the classification criteria are not fulfilled.,

Substance
Calcium oxide, CAS: 1305-78-8
LD50, oral, Rat, >2000 mg/kg bw (OECD 425),
Titanium-dioxide, CAS: 1317-70-0
LD50, oral, Rat, >10000 mg/kg bw,

Acute dermal toxicity

Product
ATE-mix, dermal, Based on the available information, the classification criteria are not fulfilled.,

Substance
Calcium oxide, CAS: 1305-78-8
LD50, dermal, Rabbit, >2500 mg/kg bw (OECD 402),
Titanium-dioxide, CAS: 1317-70-0
LD50, dermal, Rabbit, >10000 mg/kg bw,

Acute inhalational toxicity

Product
ATE-mix, inhalative, Based on the available information, the classification criteria are not fulfilled.,

Substance
Calcium oxide, CAS: 1305-78-8
LC50, inhalative, Rat, >6,04 mg/L air (OECD 436),
Titanium-dioxide, CAS: 1317-70-0
LC50, inhalative, Rat, >6,8 mg/L (4h),

Serious eye damage/irritation

Risk of serious damage to eyes.
Based on the available information, the classification criteria are fulfilled.
Calculation method

Substance
Calcium oxide, CAS: 1305-78-8
OECD 405,
Eye, Rabbit,
corrosive,

Skin corrosion/irritation

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

Substance
Calcium oxide, CAS: 1305-78-8
OECD 404,
dermal, Rabbit,
irritant,

Respiratory or skin sensitisation Based on the available information, the classification criteria are not fulfilled.

Substance
Calcium oxide, CAS: 1305-78-8
No information available.,
negative,

Specific target organ toxicity — single exposure Based on the available information, the classification criteria are not fulfilled.

Substance
Calcium oxide, CAS: 1305-78-8
No information available.,
May cause respiratory irritation,

Specific target organ toxicity — repeated exposure Based on the available information, the classification criteria are not fulfilled.

Substance
Calcium oxide, CAS: 1305-78-8
OECD 412,
negative,
NOAEC, inhalative, Rat, 107 mg/m³,

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

Substance
Calcium oxide, CAS: 1305-78-8
No information available.,
negative,

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

Substance
Calcium oxide, CAS: 1305-78-8
OECD 414,
negative,
NOAEL, mouse, >= 440 mg/kg bw7day,

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

Substance
Calcium oxide, CAS: 1305-78-8
No information available.,
negative,
NOAEL, oral, Rat, 391 mg/kg bw/day,

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

General remarks

Toxicological data of complete product are not available.

SECTION 12: Ecological information

12.1 Toxicity

Substance
Calcium oxide, CAS: 1305-78-8
LC50, (96h), Oncorhynchus mykiss, 50,6 mg/L (OECD 203),
EC50, (48h), Daphnia magna, 49,1 mg/L (OECD 202),
EC10, (72h), Pseudokirchneriella subcapitata, 79,22 mg/L (OECD 201),
Titanium-dioxide, CAS: 1317-70-0
LC0, (48h), Leuciscus idus, >1000 mg/L,

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	not applicable

12.3 Bioaccumulative potential

No evidence for bioaccumulation potential.

12.4 Mobility in soil

No information available.

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

No information available.

12.7 Other adverse effects

Do not discharge product unmonitored into the environment or into the drainage.

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

Dispose of as hazardous waste.

Waste no. (recommended) 010302XXXXXXXX

Contaminated packaging

Contaminated packing should be disposed of as product waste.

Waste no. (recommended) 150102
150101

SECTION 14: Transport information

14.1 UN 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

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 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

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 (2021)
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- VOC (2010/75/CE)	not applicable

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H315 Causes skin irritation.

16.2 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

16.3 Other information

Classification procedure Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)

Modified position none