



VASILGRIT[®] – Aluminium silicate abrasive

MATERIAL SAFETY DATA SHEET

Section I. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Product Name	VASILGRIT [®]
Synonyms	Boiler slag, Slag, coal slag, slag granules, Coal furnace slag
EC-No	931-322-8
REACH Registration Number	01-2119491179-27-0235
Recommended Use	Use as an abrasive, roofing, decorative grain in concrete products, raw materials for concrete producers and stone baked products, non-slip grit.
Uses advised against	This product must not be used in applications other than those identified above, without first seeking advice of the supplier
Distributor:	GritSablare
	Headquarter: 10 Eliza Zamfirescu Leonida Street, Bucharest
	Storage & Logistic: Constanța Seaport, Gate 2, SORENA Platform, Constanța, Romania
	Phone: (+4) 0722.279.481
	Email: comercialgritsablare@gmail.com
	Website: www.gritsablare.ro

Section II. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	This product does not meet the criteria for classification as hazardous as defined in the Regulation EC 1272/2008. This product should be handled with care to avoid dust generation.
2.2 Label elements	None
2.3 Other hazards	This product is an inorganic substance and does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH. No other hazard identified.

Section III. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical nature

UVCB: Vitreous/amorphous components and minerals. The main elements are Al₂O₃, Fe₂O₃, CaO and SiO₂.

Substance name	EC-No	CAS-No	(1272/2008/EC) Classification	Weight %	Number REACH Registration
Ashes (residues), coal	931-322-8	-	-	>99	01-2119491179-27-0 235
Quartz (fine fraction)	238-878-4	14808-60-7	STOT RE 1 H372	<1	Exempted

For the full text of the H-Statements mentioned in this section, see Section 16.

Section IV. FIRST AID MEASURES

4.1. Description of first aid measures

General advice

No hazards which require special first aid measures.

Eye contact

Rinse with copious quantities of water and seek medical attention if irritation persists

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur.

Ingestion

No first aid measure required.

Inhalation

Movement of the exposed individual from the area to fresh air is recommended.

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

Main symptoms

No acute and delayed symptoms and effects are observed.

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

Notes to physician

No special first aid measures necessary.

Section V. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

No specific extinguishing media is needed.

Unsuitable Extinguishing Media

No restriction on the extinguishing media to be used.

5.2. Special hazards arising from the substance or mixture

Non-combustible. No hazardous thermal decomposition.

5.3. Advice for firefighters

No specific fire-fighting protection is required.

Section VI. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid airborne dust generation, wear respiratory personal protective equipment in compliance with national legislation, see EN 143: 2000.

6.2. Environmental precautions

No special requirements.

6.3 Methods and material for containment and cleaning up

Avoid dry sweeping and use water spraying or vacuum cleaning systems (with high-efficiency particulate air filter) to prevent airborne dust generation. Wear personal protective equipment in compliance with national legislation.

6.4. Reference to other sections

See sections 8 and 13.

Section VII. HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures

Avoid airborne dust generation. Provide appropriate exhaust ventilation at places where airborne dust is generated. Other suitable controls may include enclosure, isolation, water suppression, respiratory protective equipment. Handle packaged products carefully to prevent accidental bursting. If you require advice on safe handling techniques, please contact your supplier.

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. Shower and change clothes at end of work shift.

7.2. Conditions for safe storage, including any incompatibilities

Minimise airborne dust generation and prevent wind dispersal during loading and unloading. Keep containers closed and store packaged products so as to prevent accidental bursting.

7.3. Specific end use(s)

If you require advice on specific uses, please contact your supplier.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust).

For the equivalent limits in other countries, please consult a competent occupational hygienist or the local regulatory authority.

Substance name	European Union	The United Kingdom	France	Germany	Netherlands
Dust				TWA: 4 mg/m ³ inh TWA: 0.3 mg/m ³ resp (Dens. 1 g/cm ³) STEL: 2.1 mg/m ³ resp (Dens. 1 g/cm ³)	TGG: 10 mg/m ³ inh priv
Respirable Crystalline Silica (quartz)	TWA: 0.1 mg/m ³ resp (Directive 2017/2398)	TWA: 0.1 mg/m ³	VME: 0.1 mg/m ³		TGG: 0.075 mg/m ³

Substance name	Italy	Spain	Portugal	Denmark	Poland
Dust		VLA-ED: 10 mg/m ³ inh VLA-ED: 3 mg/m ³ resp		GV: 10 mg/m ³ inh	
Respirable Crystalline Silica (quartz)	TWA: 0.025 mg/m ³	VLA-ED: 0.05 mg/m ³	VLE-MP: 0.025 mg/m ³	GV: 0.1 mg/m ³	NDS: 0.1 mg/m ³

Substance name	Belgium	Finland	Norway	Hungary	Sweden
Dust	TWA: 10 mg/m ³ inh TWA: 3 mg/m ³ resp	HTP-arvot: 10 mg/m ³ inh inorg		ÁK: 10 mg/m ³ inh ÁK: 6 mg/m ³ resp	NVG: 10 mg/m ³ inh inorg NVG: 5 mg/m ³ resp inorg
Respirable Crystalline Silica (quartz)	TGG: 0.1 mg/m ³	HTP-arvot: 0.05 mg/m ³	TWA: 0.1 mg/m ³	ÁK: 0.15 mg/m ³	NGV: 0.1 mg/m ³

Substance name	Romania	Russia	Greece	Czech Republic	Slovakia
Respirable Crystalline Silica (quartz)	NGV: 0.1 mg/m ³	TWA: 1 mg/m ³ (>70% dust)	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³	NPEL: 0.1 mg/m ³

Substance name	Slovenia	Bulgaria	Lithuania	Estonia	Latvia
Respirable Crystalline Silica (quartz)	TWA: 0.15 mg/m ³	TWA: 0.07 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³	

Biological Limit Values

No information available.

Recommended monitoring procedures

No information available.

Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration (PNEC)

Substance name	Fresh water	Marine water	Intermittent release	Sewage treatment plant	Freshwater sediment	Marine sediment	Soil	Oral
Ashes (residues), coal	0.044 mg/L	0.004 mg/L	0.3 mg/L	10 mg/L			8.4 mg/kg dw	0.166 mg/kg food

8.2. Exposure controls

Appropriate engineering controls

Minimise airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organisational measures, e.g. by isolating personnel from dusty areas. Remove and wash soiled clothing.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side-shields in circumstances where there is a risk of penetrative eye injuries.

Skin protection

No specific requirement. For hands, see below. Appropriate protection (e.g. protective clothing, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin.

Hand Protection

Appropriate protection (e.g. gloves, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin. Wash hands at the end of each work session.

Respiratory protection

In case of prolonged exposure to airborne dust concentrations, wear a respiratory protective equipment that complies with the requirements of European or national legislation. The use of half or full face masks with filters against particles of category 2 or 3 (FP2 - FP3) is recommended. See EN 143: 2000 - Respiratory protective devices. Particle filters.

Environmental Exposure Controls: Avoid wind dispersal.

Section IX. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state @20°C

Solid

Appearance

Granules (Grain shape: angular, sharp-edged, glassy)

Colour

Grey - dark brown, Black

Odour

Odourless

Professional Blasting Materials

pH	<10 (40% aqueous dispersion @20°C)
Melting/freezing point	>1260 °C
Boiling point/boiling range	>2000 °C
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	Not flammable
Flammability Limits in Air	Not flammable
Explosive limits	No information available
Vapour pressure	No information available
Vapour density	No information available
Relative density	No information available
Solubility	
Water solubility	Insoluble
Partition Coefficient (n-octanol/water)	No information available
Autoignition temperature	Not applicable (not flammable)
Decomposition temperature	No information available
Viscosity, dynamic	No information available
Explosive properties	Not applicable (not flammable)
Oxidising properties	Not oxidizing

9.2 Other information

Bulk Density	1,3 - 1,4 kg/dm ³ (@20°C)
--------------	--------------------------------------

Section X. STABILITY AND REACTIVITY

10.1 Reactivity

Inert, not reactive.

10.2 Chemical stability

Chemically stable.

10.3 Possibility of hazardous reactions

No hazardous reactions.

10.4 Conditions to avoid

Not relevant.

10.5 Incompatible materials

No particular incompatibility.

10.6 Hazardous decomposition products

Not relevant.

Section XI. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

Substance name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ashes (residues), coal	>2000 mg/kg (Rat)	>2000 mg/kg (Rat)	>1400 mg/m3 (Rat) 4h

Skin corrosion/irritation

Non-irritating.

Serious eye damage/irritation

Non-irritating.

Substance name	Skin corrosion/irritation	Serious eye damage/irritation
Ashes (residues), coal	OECD 404, In vivo, Rat Result: Non-irritating	OECD 405, In vivo, Rat Result: Non-irritating

Respiratory or skin sensitisation

No known effect (OECD 406, EU B.42).

Germ cell mutagenicity

Not known to adversely affect reproductive functions and organs.
 Not known to cause heritable genetic damage (OECD 471, OECD 474, OECD 476, EU B.13/14: Negative).

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

No known effect (OECD 421, NOEL: 160-400, NOAEL oral: 1000 mg/kg bw/d).

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

No known effect. (OECD 407, NOAEL oral: ≥ 1000 mg/kg bw/d).

Aspiration Hazard

Based on available data, the classification criteria are not met.

Section XII. ECOLOGICAL INFORMATION

12.1. Toxicity

This product is not known to be hazardous to the environment.

Substance name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Ashes (residues), coal			NOEL: >100 mg/L 3h	

12.2. Persistence and degradability

Not relevant.

12.3. Bioaccumulative potential

Not relevant.

12.4. Mobility in soil

Negligible.

12.5. Results of PBT and vPvB assessment

Not relevant.

12.6. Other adverse effects

No specific adverse effects known.

Section XIII. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues / unused products

Where possible, recycling is preferable to disposal. Can be disposed of in compliance with local regulations

Packaging

Dust formation from residues in packaging should be avoided and suitable worker protection assured. Store used packaging in enclosed receptacles. Recycling and disposal of packaging should be carried out in compliance with local regulations. The re-use of packaging is not recommended. Recycling and disposal of packaging should be carried out by an authorised waste management company.

EWG Waste Disposal No

After use:

12 01 16* - Waste blasting material containing dangerous substances

12 01 17 - Waste blasting material other than those mentioned in 12 01 16

Section XIV. TRANSPORT INFORMATION

According to: ADR, RID, ADN, IMDG, IATA/ICAO.

14.1. UN number

Not relevant.

14.2. UN proper shipping name

Not relevant.

14.3. Transport hazard class(es)

ADR: Not classified

IMDG: Not classified

ICAO/IATA: Not classified

RID: Not classified

14.4. Packing group

Not applicable.

14.5 Environmental hazards

Not relevant.

14.6 Special precautions for user

No special precautions.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not relevant.

Section XV. REGULATORY INFORMATION

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

National regulatory information

No information available.

International legislation/requirements

No information available.

15.2 Chemical safety assessment

No information available.

Section XVI. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H372 - Causes damage to lung through prolonged or repeated exposure by inhalation

Indication of the changes made to the previous version of the SDS

Details of the supplier of the safety data sheet.

Training

Workers must be trained in the proper use and handling of this product as required under applicable regulations.

Social dialogue on respirable crystalline silica

A multi-sectoral social dialogue agreement on Workers Health Protection through the Good Handling and Use of Crystalline Silica and Products Containing it was signed on 25 April 2006. This autonomous agreement, which receives the European Commission's financial support, is based on a Good Practices Guide. The requirements of the Agreement came into force on 25 October 2006. The Agreement was published in the Official Journal of the European Union (2006/C 279/02). The text of the Agreement and its annexes, including the Good Practices Guide, are available from <http://www.nepsi.eu> and provide useful information and guidance for the handling of products containing crystalline silica (fine fraction). Literature references are available on request from EUROSIL, the European Association of Industrial Silica Producers.

Prolonged and/or massive exposure to respirable crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica.

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However, it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated. (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France).

In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and,

apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003).

There is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. Worker protection against silicosis should be assured by respecting the existing regulatory occupational exposure limits and implementing additional risk management measures where required.

Health & Safety Executive: Detailed reviews of the scientific evidence on the health effects of crystalline silica have been published by HSE (Health and Safety Executive, UK) in the Hazard Assessment Documents EH75/4 (2002) and EH75/5 (2003). The HSE points out on its website that "Workers exposed to fine dust containing quartz are at risk of developing a chronic and possibly severely disabling lung disease known as "silicosis". In addition to silicosis, there is now evidence that heavy and prolonged workplace exposure to dust containing crystalline silica can lead to an increased risk of lung cancer. The evidence suggests that an increased risk of lung cancer is likely to occur only in those workers who have developed silicosis.

Depending on the type of handling and use (e.g. grinding, drying), airborne respirable crystalline silica may be generated. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable crystalline silica dust should be monitored and controlled.

Abbreviations and acronyms

- EC: European Commission
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemical substances
- TWA: Time-Weighted Average - 8 hours
- tot: Total dust
- inh: Inhalable fraction
- resp: Respirable dust
- LD50: Medial lethal dose
- STOT: Specific Target Organ Toxicity
- RE: Repeated exposure
- PBT: Persistent, Bioaccumulative, Toxic
- vPvB: very Persistent and very Bioaccumulating
- ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- RID: Règlement concernant le transport international ferroviaire des marchandises dangereuses (Regulations for the International Transport of Dangerous Goods by Rail)
- ADN: Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
- IMDG: International Maritime Dangerous Goods Code
- ICAO: International Civil Aviation Organization

SDS No.
AP00160 / AP01

Disclaimer/Statement of Liability

The information in this MSDS was obtained from sources that are believed to be reliable; however, the information is provided without any representation or warranty, express or implied, regarding its accuracy or correctness. The conditions or methods of handling, storage, use, and disposal of this product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use or disposal of this product.