

Safety data sheet according to 1907/2006/EC, Article 31

Version number 3 (replaces version 2)

Revision: 20.10.2023

Printing date 20.10.2023 SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier · Trade name: Granos (Iron silicate, copper smelting and refining) · EC number:

- 701-480-0
- Registration number 01-2119513228-45-0007
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Process category

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

- PROC7 Industrial spraying PROC11 Non industrial spraying
- PROC10 Roller application or brushing
- PROC13 Treatment of articles by dipping and pouring
- PROC19 Manual activities involving hand contact
- PROC21 Low energy manipulation and handling of substances bound in/on materials or articles
- PROC22 Manufacturing and processing of minerals and/or metals at substantially elevated temperature
- PROC23 Open processing and transfer operations at substantially elevated temperature
- PROC24 High (mechanical) energy work-up of substances bound in /on materials and/or articles
- PROC26 Handling of solid inorganic substances at ambient temperature

Environmental release category

- ERC1 Manufacture of the substance
- ERC5 Use at industrial site leading to inclusion into/onto article
- ERC8f Widespread use leading to inclusion into/onto article (outdoor)
- Application of the substance / the mixture
- Construction Sandblasting

1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Montanwerke Brixlegg AG Werkstraße 1 A-6230 Brixlegg Tel: +43-5337-6151-0 Fax: +43-5337-6151-2102 MSDS@Montanwerke-Brixlegg.com Weitere Informationen unter: www.montanwerke-brixlegg.com

- Further information obtainable from: Montanwerke Brixlegg AG, Tel: +43-5337-6151-0
- 1.4 Emergency telephone number:
- 999 (emergency number for the United Kingdom)
- 112 (european emergency number)

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

The substance is not classified, according to the GB CLP regulation.

- 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances

· CAS No. Description

Granos (Iron silicate, copper smelting and refining)

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· Identification number(s)

• EC number: 701-480-0

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · General information: No special measures required.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- [•] 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: No special measures required.
- **6.3 Methods and material for containment and cleaning up:** Dispose of the material collected according to regulations.
- 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling No special measures required. • Information about fire - and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Storage class: 13
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

[•] 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace: Not required.

- · PNECs
- PNEC Compartment aquatic 50 g/l (freshwater)
- Additional information: The lists valid during the making were used as basis.

[•] 8.2 Exposure controls

• Appropriate engineering controls No further data; see section 7.

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(Contd. of page 2) · Individual protection measures, such as personal protective equipment · General protective and hygienic measures: The usual precautions when handling chemicals must be observed. Store protective clothing separately. Wash hands before breaks and at the end of work. · Respiratory protection: Required when dusts occur. Hand protection Protective gloves Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Eye/face protection Safety goggles · Body protection: Protective work clothing **SECTION 9: Physical and chemical properties** 9.1 Information on basic physical and chemical properties · General Information · Physical state Solid · Colour: Black · Odour: Odourless · Odour threshold: Not determined. · Melting point/freezing point: 1,027 - 1,341 °C Boiling point or initial boiling point and boiling range Undetermined. · Flammability Not determined. · Lower and upper explosion limit · Lower: Not determined. · Upper: Not determined. · Flash point: Not applicable. · Decomposition temperature: Not determined. · pH Not applicable. · Viscosity: Kinematic viscosity Not applicable. · Dynamic: Not applicable. · Solubility · water: Poorly soluble · Partition coefficient n-octanol/water (log value) Not determined. Not applicable. · Vapour pressure: Density and/or relative density Density at 20 °C: 3.11 - 4.2 g/cm3 · Relative density Not determined. 2,000 kg/m³

- · Bulk density: · Vapour density
- Particle characteristics
- See section 3.

• 9.2 Other information

- · Appearance:
- · Form: Granulate · Important information on protection of health and environment, and on safety. Ignition temperature: Product is not selfigniting. Not determined. · Explosive properties: Product does not present an explosion hazard. · Change in condition Evaporation rate Not applicable.

Not applicable.

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Information with regard to physical hazard cl	asses	
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flamma	able	
gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

SECTION 10: Stability and reactivity

- . 10.1 Reactivity No further relevant information available.
- [·] 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- [•] 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials:
- Strong acids
- Strong oxidising agents
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

Oral LD50 > 2,000 mg/kg (rat)

Dermal LD50 > 2,000 mg/kg (rat)

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards
- · Endocrine disrupting properties Substance is not listed.

SECTION 12: Ecological information

- ^{12.1} Toxicity
- Aquatic toxicity: No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.

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- 12.3 Bioaccumulative potential No further relevant information available.
 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.

· vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Additional ecological information:
- General notes: Not hazardous for water.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- **Recommendation** Disposal must be made according to official regulations.
- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number		
· ADR, IMDG, IATA	not regulated	
14.2 UN proper shipping name		
ADR, IMDG, IATA	not regulated	
 14.3 Transport hazard class(es) 		
· ADR, ADN, IMDG, IATA		
Class	not regulated	
· 14.4 Packing group		
· ADR, IMDG, IATA	not regulated	
[•] 14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for user	Not applicable.	
· 14.7 Maritime transport in bulk according to		
IMO instruments	Not applicable.	
· UN "Model Regulation":	not regulated	

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II
- Substance is not listed.
- REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
- Substance is not listed.
- · Annex II REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed.
- Regulation (EC) No 273/2004 on drug precursors Substance is not listed.
- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors Substance is not listed.

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* 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Date of previous version: 19.07.2016
- · Version number of previous version: 2
- · Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 - IMDG: International Maritime Code for Dangerous Goods

 - IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - PNEC: Predicted No-Effect Concentration (UK REACH)
 - LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
- * Data compared to the previous version altered.

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