

# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



## Magnetite Bricks

Creation date 08th June 2023

Revision date

Version

1.0

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

#### 1.1. Product identifier

Magnetite Bricks

Substance / mixture

mixture

Other mixture names

Product group: MAGNETITE

Quality class: MGT, MGT30, MGT40, MGT50, MGT60, MGT70, MGT80, MGT90, MGT100, MIX, MIX33

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

##### Mixture's intended use

Due to their high bulk density and related high thermal capacity the products are mainly designed for fine thermal lining of accumulation stoves.

##### Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

#### 1.3. Details of the supplier of the safety data sheet

##### Manufacturer

Name or trade name

P-D Refractories CZ a.s.

Address

Nádražní 218, Velké Opatovice, 679 63

Czech Republic

VAT Reg No

CZ16343409

Phone

+420 516 493 111

E-mail

pd-refractoriescz@pd-group.com

Web address

www.pd-refractories.cz

##### Competent person responsible for the safety data sheet

Name

SBLCore s.r.o.

E-mail

sblcore@sblcore.com

#### 1.4. Emergency telephone number

European emergency number: 112

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.

Full text of all classifications and hazard statements is given in the section 16.

#### 2.2. Label elements

none

#### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Particularly dense refractory products with high Fe<sub>3</sub>O<sub>4</sub> content with ceramic bond created by sintering at temperatures higher than 800°C.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

none

# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



## Magnetite Bricks

Creation date 08th June 2023

Revision date

Version

1.0

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

##### If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Rinse the oral cavity with water and clear the nose to remove the inhaled dust.

##### If on skin

Remove contaminated clothes.

##### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Provide medical treatment, specialized if possible.

##### If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Never give anything by mouth to an unconscious person. Never evoke vomiting in unconscious person!

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

##### If inhaled

May cause respiratory irritation.

##### If on skin

Not expected.

##### If in eyes

When intruding eyes, it can evoke irritation.

##### If swallowed

Gastrointestinal symptoms, including upset stomach.

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

Symptomatic treatment.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

The product is non-flammable. Used packaging material may be flammable, use appropriate extinguishing agent depending on the surrounding fire.

##### Unsuitable extinguishing media

Unknown.

#### 5.2. Special hazards arising from the substance or mixture

None.

#### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Avoid dust formation. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8.

#### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Prevent further dust spread through the air.

#### 6.3. Methods and material for containment and cleaning up

Sweep up the spilled product and place in specified waste collection containers. Prevent excessive dust formation during cleaning. Dispose of the collected material according to the instructions in the section 13.

#### 6.4. Reference to other sections

See the Section 7, 8 and 13.

# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



## Magnetite Bricks

Creation date 08th June 2023

Revision date Version 1.0

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Prevent formation of dust in concentrations exceeding the occupational exposure limits. Avoid contact with eyes. Do not inhale dust. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Minimize dust generation and accumulation.

#### 7.3. Specific end use(s)

not available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

The mixture contains no substances for which occupational exposure limits are set.

#### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

##### Eye/face protection

Protective glasses with side shields.

##### Skin protection

When handling in long-term or repeatedly, use protective gloves (e.g. leather). Other protection: Protective workwear and boots.

##### Respiratory protection

Use a respirator with filter against fibrogenic dust in the case of exceeded exposure limit .

##### Thermal hazard

Not available.

##### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Prevent flying dust during cutting, grinding, breaking etc.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|  |                    |
|--|--------------------|
| Physical state   | solid              |
| Colour   | data not available |
| Odour  | without fragrance  |
| Melting point/freezing point                             | data not available |
| Boiling point or initial boiling point and boiling range | data not available |
| Flammability   | non-flammable      |
| Lower and upper explosion limit                          | data not available |
| Flash point  | data not available |
| Auto-ignition temperature                                | data not available |
| Decomposition temperature                                | data not available |
| pH   | 6-8 (undiluted)    |
| Kinematic viscosity                                      | data not available |
| Solubility in water                                      | insoluble          |
| Partition coefficient n-octanol/water (log value)        | data not available |
| Vapour pressure  | data not available |
| Density and/or relative density                          |                    |
| Density  | data not available |

# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



## Magnetite Bricks

|               |                |         |     |
|---------------|----------------|---------|-----|
| Creation date | 08th June 2023 | Version | 1.0 |
| Revision date |                |         |     |

|      |                                   |  |
|------|-----------------------------------|--|
|      | Relative density                  | 3,70 - 4,20 g/cm <sup>3</sup> (bulk density)   |
|      | Relative vapour density           | data not available                             |
|      | Particle characteristics          | data not available                             |
| 9.2. | <b>Other information</b>          |  |
|      | Appearance                        | refractory moulded products, different colours |
|      | Content of organic solvents (VOC) | 0 %  |

### SECTION 10: Stability and reactivity

- 10.1. Reactivity**  
Stable under recommended storage conditions.
- 10.2. Chemical stability**  
The product is stable under normal conditions.
- 10.3. Possibility of hazardous reactions**  
Unknown.
- 10.4. Conditions to avoid**  
The product is stable and no degradation occurs under normal use.
- 10.5. Incompatible materials**  
none
- 10.6. Hazardous decomposition products**  
Not developed under normal uses.

### SECTION 11: Toxicological information

- 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**  
No toxicological data is available for the mixture.
- Acute toxicity**  
Based on available data the classification criteria are not met.
- 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.
- Toxicity for specific target organ - single exposure**  
Based on available data the classification criteria are not met.
- Toxicity for specific target organ - repeated exposure**  
Based on available data the classification criteria are not met.
- Aspiration hazard**  
Based on available data the classification criteria are not met.

# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



## Magnetite Bricks

Creation date 08th June 2023

Revision date

Version

1.0

### More information

The product may contain crystalline silica. Product dust inhalation is considered a source of minimum risk of lung fibrosis (silicosis). Chronic obstructive lung disorder is only suspected after very long exposition times (years) under exposure concentrations exceeding the permitted limits. Carcinogenicity of cristobalite for humans has not been unambiguously proved.

### 11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute toxicity

#### More information

A natural material by origin, no assumed toxic effects on aqueous organisms.

### 12.2. Persistence and degradability

The product is inert and does not degrade.

### 12.3. Bioaccumulative potential

Not available.

### 12.4. Mobility in soil

Not available.

### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

### 12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 12.7. Other adverse effects

The product is inert and other potential negative effects are connected with mechanical effects of dust formation.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### Waste type code

10 12 08 waste ceramics, bricks, tiles and construction products (after thermal processing)

#### Packaging waste type code

15 01 00 packaging (including separately collected municipal packaging waste)

## SECTION 14: Transport information

### 14.1. UN number or ID number

not subject to transport regulations

### 14.2. UN proper shipping name

not relevant

# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



## Magnetite Bricks

Creation date 08th June 2023

Revision date

Version

1.0

### 14.3. Transport hazard class(es)

not relevant

### 14.4. Packing group

not relevant

### 14.5. Environmental hazards

not relevant

### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

### 14.7. Maritime transport in bulk according to IMO instruments

not relevant

## SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

### 15.2. Chemical safety assessment

not available

## SECTION 16: Other information

### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

### Key to abbreviations and acronyms used in the safety data sheet

|                     |   |
|---------------------|---|
| ADR                 | European agreement concerning the international carriage of dangerous goods by road               |
| BCF                 | Bioconcentration Factor   |
| CAS                 | Chemical Abstracts Service  |
| CLP                 | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| EC                  | Identification code for each substance listed in EINECS   |
| EINECS              | European Inventory of Existing Commercial Chemical Substances                                     |
| EmS                 | Emergency plan  |
| EU                  | European Union  |
| EuPCS               | European Product Categorisation System  |
| IATA                | International Air Transport Association   |
| IBC                 | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals       |
| ICAO                | International Civil Aviation Organization   |
| IMDG                | International Maritime Dangerous Goods  |
| IMO                 | International Maritime Organization   |
| INCI                | International Nomenclature of Cosmetic Ingredients  |
| ISO                 | International Organization for Standardization  |
| IUPAC               | International Union of Pure and Applied Chemistry   |
| log K <sub>ow</sub> | Octanol-water partition coefficient   |
| OEL                 | Occupational Exposure Limits  |

# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended



## Magnetite Bricks

|               |                |         |     |
|---------------|----------------|---------|-----|
| Creation date | 08th June 2023 | Version | 1.0 |
| Revision date |                |         |     |

|       |   |
|-------|---|
| PBT   | Persistent, Bioaccumulative and Toxic   |
| ppm   | Parts per million   |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals                              |
| RID   | Agreement on the transport of dangerous goods by rail   |
| UN    | Four-figure identification number of the substance or article taken from the UN Model Regulations |
| UVCB  | Substances of unknown or variable composition, complex reaction products or biological materials  |
| VOC   | Volatile organic compounds  |
| vPvB  | Very Persistent and very Bioaccumulative  |

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### More information

Classification procedure - calculation method.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.