

Nádražní 218 679 63 Velké Opatovice

# **SAFETY DATA SHEET** (Nr.20b)

according Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP) and Commission Regulation EU No. 2020/878

Date of issue: 02.January 2020 Page: 1/7
Revision date: 15.12.2022 Rev.: 1

Product name: CERMAL Refractory mastic

Product group: RUDOKIT, Quality class: **CERMAL** 

# SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

## 1.1 Product identifier:

Product name: **CERMAL Refractory mastic** 

CAS no: n/a (mixture) EC (EINECS) no: n/a (mixture)

Index no: n/a (mixture) REACH registration no: N/A for mixtures.

Other names: None.

CLP unique formula identifier (UFI): JCJ0-10XJ-H007-F2F6

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

Building industry - bonding chimney liners and acid-resistant fireclays, no further treatment.

Not recommended use: Other than specified by the Manufacturer.

1.3 Details of the supplier of the safety data sheet:

Manufacturer: P-D Refractories CZ a.s.

Address: Nádražní 218, 679 63 Velké Opatovice Phone: +420 516 493 111, Fax: +420 516 477 338

Email address of competent person responsible for material safety data sheet:

Milan.Mazura@pd-group.com

1.4 Emergency phone:

Toxicological information centre -+420 224919293, +420 224915402

Na Bojišti 1, 128 08 PRAGUE 2

## **SECTION 2. HAZARD IDENTIFICATION**

2.1 Classification of substance or mixture:

Classification according to European Parliament and Council Regulation (EC) no. 1272/2008 CLP:

Skin Irrit 2: skin corrosion/irritation, Cat. 2

H315 Causes skin irritation.

Eye Irrit. 2: serious eye damage / eye irritation, Cat. 2

H319 Causes serious eye irritation.

#### 2.2 Identification elements:

Hazand nistagramas

Hazard pictograms:	GHS0ý
Contains:	Warning
Signal word:	Not applicable.
Hazard statements:	H315 Causes skin irritation.
	H319 Causes serious eye irritation.
Precautionary statements	P264 Wash hands with water and soap thoroughly after handling.
	P280 Wear protective gloves / protective clothing / eye protection / face
	protection.
	P301+P330+P331 IF SWALLOWED: Rinse mouth. DO NOT induce
	vomiting.
	P303+P361+P353 IF ON SKIN (or with hair): Take off immediately all
	contaminated clothing. Rinse skin with water/shower.
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several
	minutes. Remove contact lenses if present and easy to do. Continue
	rinsing.
	P501 Dispose of content/container by handing it over to a facility
	authorised to handle wastes.
Other required labeling:	Not applicable.
2.3 Other hazards:	
D 1 4 4 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1

Persistent, bio-accumulative and toxic, highly persistent and highly bio-accumulative substances:



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#### Results of PBT and vPvB:

The product does not contain PBT and vPvB.

The mixture does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation 1907/2006 / EC, the constituents are not listed on the Candidate List of substances of very high concern (SVHC).

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1. Substances:

Not applicable.

## 3.2. Mixtures:

Wet mixture on the basis of silica sands with a chemical bond. It contains 70-80% of silicon dioxide – silica sand (CAS: 14808-60-7, EC: 238-878-4).

Substances dangerous for health or the environment:

Name of component	Concentration % mass	CAS EC Index number Registration number	Classification according to 1272/2008/EC
Quartz (SiO <sub>2</sub> ) (micronized Střeleč sand)	Rudomal KV (KVLP), KVP: < [25,2 – 27,3]*)	14808-60-7 238-878-4 Not given Not subject to registration	With regard the trade and application form of the product — wet mixture for direct use without any further treatment, no hazardous characteristics apply.
Lithium water glass, contains lithium hydroxide	15	for Li(OH) <sub>2</sub> anhydrous: 1310-66-3 215-183-4 Not given 01-2119560576-31- 0000	For component: Skin Irrit 2: skin corrosion/irritation, Cat. 2 H315 Causes skin irritation. Eye Irrit. 2: serious eye damage / eye irritation, Cat. 2 H319 Causes serious eye irritation.

<sup>\*)</sup> Expressed as respirable fraction content

#### Substances with workplace exposure limits:

Does not contain any in the solid state, otherwise see data in 8.1.

## Specific concentration limit or a multiplication factor

Acute toxicity estimation

They are not specified for the components of the mixture.

## **SECTION 4. FIRST AID INSTRUCTIONS**

## 4.1 First aid description:

## 4.1.1 First aid instructions:

<u>General instructions</u>: Immediate medical attention is required in case of ingestion or contact with eyes. When

working observe work hygiene. When working it is necessary to limit direct contact of the skin and mucous membranes of workers to a minimum. In the case of severe

symptoms seek medical advice.

Inhalation: There is virtually no risk with regard to the application form. Generally: If inhaled, walk

out to the fresh air.

Skin contact: Remove the exposed person away from the source of contamination. Remove

contaminated clothing and boots, clean both before further use. Quickly and carefully wash the exposed skin with warm water and soap or other skin cleansing agents and treat with a suitable cream.



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ye contact: Wash out immediately with lukewarm water for at least 15 minutes whilst forcing the eye

open. After rinsing use a suitable eye lotion. Wash the eye surroundings with water too.

Seek medical attention, continue flushing until treatment is administered.

Never evoke vomiting in unconscious person! Do not serve drinks to unconscious Ingestion:

person! Get medical help immediately. Rinse mouth thoroughly with water. Drink

several glasses of water or milk if immediately available.

4.1.2 Additional data: a) Immediate medical attention is required in case of ingestion or contact with eyes

b) In the case of inhalation moving the exposed person to fresh air is recommended.

c) Remove contaminated parts of clothing.

d) Recommended personal protective means to persons providing first aid: See section 8

4.2 Most important symptoms and effects, both acute and delayed

It may cause skin irritation.

Exposed eye irritation.

A burning sensation in the mouth upon ingestion. Gastrointestinal symptoms include nausea, vomiting.

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

Visit a doctor in the case of nausea.

## **SECTION 5. FIRE-FIGHTING MEASURES**

5.1 Extinguishing media: Suitable: Non-flammable. Packaging material used may be flammable, use appropriate extinguishing agent depending on the surrounding fire.

Non-suitable: None are specified.

5.2 Special hazards arising from the substance or mixture: None are known.

5.3 Advice for fire-fighters: Use equipment depending on the surrounding fire. Non-flammable material.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Restrict unauthorised access to the exposed area until emergency elimination. In the case of large leaks secure the area against unauthorised access.

6.1.2 For emergency responders:

Prevent any further spreading of the product and its drying. When handling the leaked product, use personal protective equipment (see Section 8). Other special precautions are not necessary.

- 6.2 Environmental precautions: No acute negative effects on the environment. Prevent further dust spread through the air. Place the devalued product in specified waste collection containers.
- 6.3 Methods and materials for containment and cleaning up: Sweep up the spilled product and place in specified waste collection containers. Prevent excessive dust formation during cleaning. Other special precautions are not necessary.
- <u>6.4 References to other sections:</u> Personal protective equipment section 8.

Waste disposal – section 13.

#### SECTION 7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling:
- 7.1.1 Particular recommendations: Use as prescribed by the Manufacturer. Prevent drying out of the product in the packaging or any leaked product. Do not process solidified product in the application form.
- 7.1.2 General hygienic instructions for work: Use personal protective equipment where necessary, especially to protect hands, skin and eyes. Other special precautions are not necessary.
- 7.2 Conditions for safe storage, including any incompatibilities: Store in a dry place. Prevent dust formation. Storage limits: None are specified.
- 7.3 Specific end uses: No other requirements and instructions except for the data included in section 1.2.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: Governed by Government Regulation no 361/2007 Coll., stipulating conditions of occupational health protection, as amended, Annex 3:



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No hygienic limits are determined for the product when stored and used in compliance with the Manufacturer's instructions.

#### 8.2 Exposure controls:

<u>8.2.1 Appropriate engineering controls</u>: Ventilation – Where dust content in the air may be controlled with technical methods (local exhaustion, ventilation etc.)

8.2.2 Individual protective measures including personal protective equipment:

<u>Hygienic conditions:</u> Prevent eye contact, do not inhale.

Do not stay in places with higher dust concentrations without cause

Observe routine personal hygiene before eating, drinking, toilet use and after

work.

Personal protective equipment:

Eye and face protection: In case of such an application when there is a risk of contamination (e.g. when

working with the product above the face level), use suitable eye

protection.

Skin – hand protection: Protective impermeable working gloves (e.g. leather).

<u>Skin – other protection</u>: Work clothes and boots.

Respiratory tract protection: Not required when used as prescribed.

Thermal hazard: N/A

8.2.3 Environmental exposure controls:

Prevent dispersion of the dried product (cutting, grinding, breaking etc.).

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Tthe information relates to mixture.

9.1 Information about basic physical and chemical properties

a) Physical state: A powdery mixture with grain size below 0,5 mm

b) Colour: Grey
c) Odour: None

d) Melting point/freezing point:

e) Boiling point or initial boiling point and boiling

Not specified.

Not specified.

range:

f) Flammability (solid, gas)

Non-flammable.

g) Lower and upper explosion limit values:

h) Flash point:

i) Auto-ignition temperature:
Non-flammable.
Non-flammable.
Not specified.

k) pH 11

l) Kinematic viscosity:
m) Solubility:
Non-soluble
n) Partition coefficient: n-octanol / water (logarithmic
Not specified.
Not specified.
Not specified.

value):

o) Vapour pressure: Not specified.

p) Density and/or relative density 2,70 g/cm<sup>3</sup> (bulk density)

r) Relative vapour density
s) Particle characteristics (solids)
t) Evaporation rate:
t) Decomposition temperature:
Not specified.
Not specified.
Not specified.
Not specified.
Not specified.
Not specified.
None.
v) Oxidising properties:
None.

9.2. Other information

Solvent content (VOC) 0% (according to definition of the air protection act)



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None.

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9.2.1 Information with regard to physical hazard

classes

9.2.2 Other safety characteristics None.

Note:

"Not specified": irrelevant for the product "None": not available for the product.

#### SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity: No decomposition under appropriate storage and use conditions.

10.2 Chemical stability: The product is stable under normal conditions.

10.3 Possibility of hazardous: Reaction with strong acids.

10.4 Conditions to avoid:None.10.5 Incompatible materials:Strong acids.10.6 Hazardous decomposition products:None.

## SECTION 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Ways of entry to organism: No acute or chronic effects when entering through common ways of entry. a) Acute toxicity:

- LD<sub>50</sub>, oral, rat (mg.kg<sup>-1</sup>): not specified
- LD<sub>50</sub>, dermal, rat or rabbit (mg.kg<sup>-1</sup>): not specified
- LC<sub>50</sub>, inhalation, rat, for aerosols or particles (mg.kg<sup>-1</sup>): not specified
- LC<sub>50</sub>, inhalation, rat, for gases and vapours (mg.kg<sup>-1</sup>): not specified

Swallowing: Not specified.

b) skin corrosion/irritation: Irritant.

<u>c) serious eye damage/irritation:</u> Causes serious eye irritation.

d) Sensitisation of respiratory tract / skin:
e) Mutagenicity in embryonic cells:
Not classified.
f) Carcinogenicity:
Not classified.
g) Toxicity for reproduction:
Not classified.
h) Toxicity for specific target organs – single exposition:
i) Toxicity for specific target organs – multiple expositions:
Not classified.
j) Dangers on inhalation:
Not classified.
Not classified.

## 11.2 Information on other hazards

## 11.2.1 Endocrine disrupting properties

They are not available.

#### 11.2.2 Other information

This product contains breathable quartz only bound in the aqueous form. Its hazardous characteristics do not apply to the application form of the product.

# **SECTION 12. ECOLOGICAL INFORMATION**

- <u>12.1 Toxicity for aqueous organisms:</u> 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 Bioaccumulation potential: Data not available.

12.4 Mobility in soil: Data not available.

- 12.5. Results of PBT and VPvB assessment: Not required.
- 12.6. Endocrine disrupting properties: Data not available.
- 12.7. Other unfavourable effects: The product is inert.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

13.1 Waste treatment methods: Dumping on specified dumps. Disposal by release to sewerage: Excluded by the product nature.



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#### Packaging classification:

Packaging with product residue:

15 01 10\* Packaging containing residue of hazardous substances or packaging contaminated with such substances, category hazardous waste (Included with regard to the possibility of drying of the product residue). Empty clean packaging:

15 01 02 Plastic packaging, category non-hazardous waste.

Includes the adsorption material soaked with the preparation (included with regard to the possibility of drying out and potential dust form):

15 02 02 Absorption agents, filtering materials, cleaning fabric and protective clothing contaminated with hazardous substances, category hazardous waste.

13.3 Waste legislation: European waste catalogue

#### SECTION 14. TRANSPORT INFORMATION

## 14.1 UN number or ID number: -

Not subject to regulations for dangerous object transport.

14.2 UN proper shipping name:

Not subject to regulations for dangerous object transport.

14.3 Transport hazard class(es):

Not subject to regulations for dangerous object transport.

14.4 Packing group:

Not subject to regulations for dangerous object transport.

14.5 Environmental hazards:

Not subject to regulations for dangerous object transport.

14.6 Special precautions for users:

Not subject to regulations for dangerous object transport.

14.7 Maritime transport in bulk according to IMO instruments:

Not subject to regulations for dangerous object transport.

#### SECTION 15. REGULATORY INFORMATION

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

#### Relevant legislation European Union:

- Regulation (EC) No 1907/2006 of the European Parliament and of the ,concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
- Regulation EC No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
- Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
- Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
- Commission Directive (EU) 2017/164 of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC
- European Waste Catalogue
- Council Directive 1999/13/EC of 11 March 1999 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations



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- Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products Text with EEA relevance

## 15.2 Chemical safety assessment

There are no available data for assessment of safety of chemical substances for this material.

## **SECTION 16. OTHER INFORMATION**

Data on amendments and revisions:

Rev. no	Date	Amendment description	
0	6 Dec 2019	New material safety data sheet	
1.	15.12.2022	Modification of SDS according to Commission Regulation EU 2020/878. Update of legal regulations. Added UFI code.	

Important literature references and data sources: The data contained in this sheet have been processed on the basis of the Manufacturer's documents, the documents of the supplier of the components of "Střeleč micronized sands" and "Lithium water glass (MP > 3.2)", and on the basis of valid Czech and EU legal regulations.

<u>List of relevant standard hazard statements and instructions for safe handling.</u>:

None are included.

Instructions concerning all training courses for staff responsible for human health and environment protection: Include instructions about working with the product in the occupational safety training system (inaugural training, training in the workplace, repeated training) according to the specific conditions in the workplace. Recommended limitations for use: Use exclusively for purposes specified by the manufacturer. Prevent drying out of the product outside the applied state.

#### Other information:

The above data describe exclusively safety requirements for products and are based on current knowledge. They do not describe product properties in the sense of quality parameters and legislative regulations for warranty compliance.

**☞** End of material safety data sheet. **⑤**