

Nadrazni 218 679 63 Velké Opatovice

# **SAFETY DATA SHEET** (Nr.26)

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

Date of issue: 1 January 2006 Page: 1/7
Revision date: 30.06.2023 Rev.: 6

Product name: Refractory mastic

Product group: RUDOKIT

Quality class: ALUCHROM, RK85-04PV

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

#### 1.1 Product identifier:

## Product name: 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.

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

Building industry - wet refractory mastic with a chemical binding agent. It is designed for

masonry work and sealing refractory and fibrous materials and for forming a

levelling or protective layer.

#### 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 telephone number:

Toxicological information centre -+420 224919293, 224915402

Na Bojišti 1, 128 08 PRAGUE 2

# **SECTION 2. HAZARD IDENTIFICATION**

## 2.1 Classification of substance or mixture:

The product is not classified as hazardous pursuant to Dangerous Preparation Directive (1999/45/EC) nor pursuant to Regulation of the European Parliament and of the Council (EC) no 1272/2008 CLP.

# 2.2 Label elements:

The product is not subject to compulsory identification.

2.3 Other hazards:

None are specified.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1. Substances:

Not to be completed

# 3.2. Mixtures:

The wet refractory mastic based on refractory grog with added  $Cr_2O_3$  with phosphate binding. Plastic mastic with a chemical binding agent comprising of 80-90% non-fibrous aluminium oxide (CAS: 1344-28-1, EC: 215-691-6), 0-2% silicon dioxide - quartz (CAS: 14808-60-7, EC: 238-878-4), 0-2% cristobalite (CAS: 14464-46-1, EC: 238-455-4). The content of chrome oxide is 3-5% (CAS: 1308-38-9, EC: 215-160-9).

<u>Substances dangerous for health or the environment:</u>

Name of component	Concentration % mass	CAS EC Index number Registration number	Classification according to 1272/2008/EC
Orthophosphate acid 28%	max. 8	7664-38-2 231633-2 015-011-00-6 Not given	Skin. Corr. 1B, H314

#### Note:

The complete wording of the stated R and H clauses and classification symbols are provided in Section 16. Substances with workplace exposure limits:

See data in 8.1.

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

The product does not contain PBT and vPvB.

## SECTION 4. FIRST AID INSTRUCTIONS

# 4.1 First aid description:



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# 4.1.1 Description of first aid measures:

General instructions: Observe rules of work hygiene when working with this material. In the case of severe

symptoms seek medical advice. Immediate medical attention is not necessary.

Inhalation: The sealant is in a plastic state, it does not irritate airways.

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.

Eve contact: Wash with plenty of lukewarm water. After rinsing use a suitable eye lotion. Wash the

eye surroundings with water too. In the case of eye injury seek medical attention.

<u>Ingestion</u>: Never evoke vomiting in unconscious person! Do not serve drinks to unconscious

person! Rinse the mouth with water carefully, drink a couple of glasses of water.

4.1.2 Additional data: a) Immediate medical attention is recommended in the case of swallowing.

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 even burning.

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 further dust spread through the air. In the case of dusty environment use personal protective equipment (see section 8). Other special precautions are not necessary.

- <u>6.2 Environmental precautions:</u> 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.
- 6.4 References to other sections: 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: Prevent excessive (undesirable) dust formation during handling.
- <u>7.1.2 General hygienic instructions for work:</u> Use personal protective equipment where necessary. Other special precautions are not necessary.
- <u>7.2 Conditions for safe storage, including any incompatibilities</u>: 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

<u>8.1 Control parameters:</u> 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 specified for the product.

With regard to the character of the preparation, it is possible to use the following values for conditions when dust is produced (i.e. division and working of the hardened compound):

For dust with prevailingly fibrogenic effect:

Substance  $\begin{array}{ccc} PEL_r \ (mg.m^{-3}) & PEL_c \ (mg.m^{-3}) \\ (respirable \ fraction) & (total \ fraction) \end{array}$ 

 $\begin{array}{ccc} Quartz, \, cristobalite & 0,1 & -- \\ Substance & PEL \, (mg.m^{-3}) & PEL_c \, (mg.m^{-3}) \\ F_r \leq \, 5\% & F_r > 5\% & \end{array}$ 

Other silicates  $2.0 10 : F_r 10$ 

 $(F_r = respirable fraction)$ 

For dust with potential fibrogenic effect:

Substance PEL<sub>c</sub> (mg.m<sup>-3</sup>) (total fraction)

Amorphous SiO<sub>2</sub> 4.0

For dust with prevailingly non-specific effect

Substance PEL (mg.m<sup>-3</sup>)

Aluminium and its oxides (except for gamma Al<sub>2</sub>O<sub>3</sub>)

#### 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 such as 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

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work.

Personal protective equipment:

Eye and face protection: Use protective goggles with side pieces in the places of excessive dust formation.

Skin – hand protection: Protective work gloves (for example leather).

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

<u>Respiratory tract protection</u>: In the case of exceeded NPK (exposure limit) use a respirator with filter against fibrogenic dust

Thermal hazard: N/A

#### 8.2.3 Environmental exposure controls

Prevent flying dust during cutting, grinding, breaking etc.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

The information relates to mixture.

9.1 Information about basic physical and chemical properties

a) Physical state: Solid state - plastic compound.

b) Colour: Green colours.

c) Odour: None

d) Melting point/freezing point:

e) Boiling point or initial boiling

Not specified.

Not specified.

point and boiling range:

f) Flammability (solid, gas) Non-flammable.

g) Lower and upper explosion limit

values:

h) Flash point:
Non-flammable.
Non-flammable.



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j) ) Decomposition temperature Not specified.

k) Ph: 1 - 3

l) Kinematic viscosity:
m) Solubility:
Non-soluble
Not specified.
Not specified.

water (logarithmic value):

o) Vapour pressure: Not specified.

p) Density and/or relative density 2,50-3,50 g/cm<sup>3</sup> (bulk density)

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

9.2. Other information

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

None.

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.

<u>10.2 Chemical stability:</u> The product is stable under normal conditions.

10.3 Possibility of hazardous reactions: Reaction with strong alkalis

10.4 Conditions to be avoided:None.10.5 Incompatible materials:Strong alkalis10.6 Hazardous decomposition products:None.

## SECTION 11. TOXICOLOGICAL INFORMATION

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

*a) Acute toxicity* 

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

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

 $LC_{50}$ , 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

b) Skin corrosion/irritation

Not classified.

c) Serious eye damage/irritation

Can cause rapid eye damage.

d) Respiratory or skin sensitisation

Not classified.

e) Germ cell mutagenicity

Not classified.

f) Carcinogenicity

Not classified.

g) Reproductive toxicity

Not classified.

*h)* STOT-single exposure



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Not classified.

i) STOT-repeated exposure

Not classified.

j)Aspiration hazard

The dry form can irritate.

#### 11.2Information on other hazards

# 11.2.1 Endocrine disrupting properties

They are not available.

#### 11.2.2 Other information

The product may contain crystalline quartzite. 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.

# SECTION 12. ECOLOGICAL INFORMATION

- <u>12.1 Toxicity for aqueous organisms:</u> A natural material by origin, no assumed toxic effects on aqueous organisms.
- <u>12.2 Persistence and degradability:</u> 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
- <u>12.7. Other unfavourable effects:</u> The product is inert and other potential negative effects are connected with mechanical effects of dust formation.

# SECTION 13. DISPOSAL CONSIDERATIONS

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

Waste classification according to Decree 93/2016 Coll. (Waste Catalogue):

10 12 08 Waste ceramic goods, bricks, tiles and construction materials (after thermal processing), cat. O. 13.2 Methods of contaminated waste disposal: According to the nature of package construction material the waste is classified in group 15 01 Packaging materials (including separately collected communal waste packaging materials)., cat. O. Empty package without content residues may be disposed of by procedures dictated by the construction material of the package (repurchase, recycling, dumping, incineration).

## 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.



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# 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
- 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	
1.	6 Nov 2007	Change of structure and form of the whole material safety data sheet according to Annex II to Regulation of the European Parliament and of the Council (EC) no 1907/2006 (REACH)	
2.	20 Nov 2012	Periodic revision	
3.	21 Aug 2013	Overall reformulation of MSDS in compliance with the effective Annex II to Regulation (EC) no 1907/2006	
4.	18 Nov 2016	Modification of the text in Section 1.2, 3.2, 8.1, 9.1, 13.3, 15.1 and 16 – without any impact on classification and the stated principles of manipulation.	
5.	3.Jan.2020	Updates to Chapters 1.3, 13.1, 15.1, 16	



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6. 30.06.2023 Modification of SDS according to Commission Regulation EU 2020/878. Update of legal regulations.

<u>Impo03.rtant literature references and data sources:</u> Data contained in this material safety data sheet were compiled from materials of the manufacturer and on the basis of effective CR and EU legislation.

In the case of mixture information about which information evaluation method according to Article 9 of Regulation (EC) no 1272/2008 was used for classification purposes:

Approximation according to hazards of components and physical nature of product.

List of relevant standard hazard statements and instructions for safe handling. The full text of all instructions, the full text of which is not given in sections 2 to 15:

# **Symbols of CLP classification:**

Skin. Corr. 1B Corrosiveness/irritability of skin, Cat. 1B

H clauses:

H314 Causes severe skin burns and eye damage.

<u>Instructions concerning all training courses for staff responsible for human health and environment protection:</u>

Staff should be informed about the principles of work with the product and required personal protective equipment in the context of regular OHS training.

Recommended limitations for use:

Use exclusively for purposes specified by the manufacturer.

The following recommendations should be preserved when handling the product. For the sake of unification the recommendations are formulated in the form of P-phrases (Instructions for safe handling):

P262 Avoid contact with eyes, skin or clothing.

P302+P352 DURING SKIN CONTACT: Wash with plenty of soap and water.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

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.