


<p>P-D Refractories CZ a.s.</p>  <p>Nádražní 218 679 63 Velké Opatovice</p>	<h2 style="margin: 0;">SAFETY DATA SHEET</h2> <p style="margin: 0;">according to the Regulation (EC) No. 1907/2006 (REACH) of the European Parliament and the Council</p>	
	<p>Date of issue: 1 January 2006</p> <p>Date of revision: 20 June 2012</p>	<p>Page: 1/5</p> <p>Revision No.: 2</p>
	<p>Product name: Chimney pipes</p> <p>Product group: CERAMIC CHIMNEY PIPES</p> <p>quality: KKV, KV, KJ, KZ, KC, KS, KS/KC, KJZ</p>	

1. IDENTIFICATION OF SUBSTANCE OR PREPARATION AND OF COMPANY OR UNDERTAKING

1.1 Identification of substance or preparation: Chimney pipes

CAS No.: is not a preparation ES (EINECS) No.: -
Index No.: - Other names of substance: -

1.2 Use of substance or preparation:

Building industry – white thermal resistant plaster with hydraulic bond

1.3. Identification of company or undertaking:

Manufacturer: P-D Refractories CZ a.s.
Nádražní 218, 679 63 Velké Opatovice
Tel.: 516 493 111, Fax: 516 477 338
Email address of qualified person responsible for Safety Data Sheet: kovar@mslz.cz

1.4 Emergency telephone No.:

Toxicological information center – 224919293, 224915402
Na Bojišti 1, 128 08 PRAGUE 2

2. IDENTIFICATION OF HAZARDS

2.1 Classification of substance or preparation:

The product is not classified as dangerous under Act No. 356/2003 Coll. as amended or Directive 1999/45/ES

2.2. Hazards for humans:

It can mechanically irritate the eyes, respiratory organs and Skin.

2.3. Environmental hazards:

Does not have any serious impact on environment.

2.4. Potential incorrect use of substance or preparation: Not mentioned.

2.5 Other hazards:

Not specified

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Description and characteristics:

Material on basis of aluminosilicates with ceramic bond made by sintering at the temperatures higher than 800°C. It is alumina fireclay with content of non-fibrous Al₂O₃ between 25-35% (CAS: 1344-28-1, ES: 215-691-6), 0-20% SiO₂-silica (CAS: 14808-60-7, ES: 238-878-4) and 0-10% of cristobalite (CAS : 14464-56-1, ES: 238-455-4)

3.2. Substances representing hazards to health or environment:

The product does not contain substances classified as dangerous within the meaning of Act No. 356/2003 Coll. as amended or substances listed in the valid Binding list of classified dangerous chemical substances within the meaning of Decree No. 232/2004 Coll. as amended.

3.3. Substances with exposure limits for working environment:

None in the solid form, otherwise see data in chapter 8.1.

3.4. Persistent, bioaccumulative and toxic substances, highly persistent and highly bioaccumulative substances:

The product does not contain any PBT or PvB substances.

4. FIRST AID MEASURES

4.1 General information The formed dust can, in higher concentrations, irritate mucosa, conjunctiva and airways. Respect the working hygiene when manipulating with this material. Look for a medical aid in case of serious troubles. Immediate medical attention is not necessary.

4.2. Inhaling: **Symptoms:** Irritation of airways.

First aid: In case of inhaling dust, it is necessary to move to fresh air. Rinse oral cavity with water, blow your nose in order to remove the inhaled dust.

4.3 Skin contact: **Symptoms:** Can irritate

Remove the affected person from the source of contamination. Remove the contaminated clothes and shoes and clean them before further use. Wash the skin by warm water and soap or other detergent for skin treatment immediately. Use a suitable cream afterwards.

4.4. Eye contact: **Symptoms:** Causes irritation of eyes.



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First aid: Rinse with a stream of tepid water. After rinsing with water, standard eyewater may be applied. Wash skin around eyes with water. Immediate medical attention is not necessary.

4.5 Ingestion:

Symptoms: Upon ingestion of dust, temporary irritation of digestion tract may occur including nausea and vomiting. Look for a medical aid in case of any troubles.

First aid: Never induce vomiting if a person is unconscious! In the case of unconsciousness do not give any drinks! Rinse mouth thoroughly with water, drink several glasses of water. Immediate medical attention is not necessary.

4.6 Other information: None

5. FIRE-FIGHTING MEASURES

5.1. Suitable extinguishing media:

Incombustible. The packaging material used may be combustible. Use appropriate extinguishing media dependent on surrounding fire.

5.2. Unsuitable extinguishing media:

None

5.3 Special danger:

None

5.4 Special fire-fighting protective aids:

Depends on surrounding fire.

5.5 Other information:

Incombustible material.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Prevent further spreading of dust by air. In the case of dusty environment use personal protective aids (see chapter 8). Other special measures are not necessary.

6.2 Environmental precautions: Does not have any immediate negative impact on environment. Prevent further spreading of dust by air. Place a devaluated product in special waste collection bins.

6.3 Cleaning methods: Sweep away strewn product and place in special waste collection bins. Prevent excess spreading of dust while cleaning. Other special measures are not necessary.

6.4 Other information: See chapters 8 and 13.

7. HANDLING AND STORAGE

7.1 Handling: Prevent excess (undesirable) spreading of dust while handling. Use personal protective aids where necessary. Other special measures are not necessary.

7.2 Storage: 7.2.1 Conditions of safe storage: Store dry. Prevent spreading of dust.

7.2.2 Storage limits: Are not prescribed.

7.3. Specific use: No other requirements and measures apart from those mentioned in chapter 1.2.

8. EXPOSURE CONTROL / PERSONAL PROTECTION


8.1 Exposure limit values: Are governed by government regulation No. 178/2001 Coll., which determines health protection at work, Annex No. 3: Permissible exposure limits for dust:

No hygienic limits are prescribed for the preparation concerned. With respect to the nature of the preparation the following values may be applied:

For dust with mainly fibrogenous effect:

substance	PEL _r (mg.m ⁻³) (respirable fraction)		PEL _c (mg.m ⁻³) (total fraction)
	F _r ≤ 5%	F _r > 5%	
Silica, cristobalite	0.1		--
substance	PEL _r (mg.m ⁻³)		PEL _c (mg.m ⁻³)
other silicates	2.0	10 : F _r	10


(F_r = respirable fraction)

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For dust with possible fibrogenous effect:	
substance	PEL _c (mg.m ⁻³) (total fraction)
Amorphous SiO ₂	4.0
For dust with mainly non-specified fibrogenous effect:	
substance	PEL (mg.m ⁻³)
Aluminum and its oxides (except of gamma Al ₂ O ₃)	10
8.2 Exposure limitation:	
8.2.1 Staff exposure limitation: Ventilation – where it is possible to maintain the content of dust in the air within limits by technology methods (local exhaust, ventilation etc.)	
Personal protective aids:	
Respiratory protection: When the highest permissible concentration is exceeded, use a respirator with filter against fibrogenous dust.	
Hand protection:	Protective gloves (e.g. leather).
Eye protection:	In places with excess dust use protective glasses with side cover.
Skin protection:	Working clothes and boots.
Other information:	
Prevent contact with eyes, do not inhale.	
Do not stay in places with high concentration of dust if not necessary.	
Maintain standard personal hygiene before eating, drinking and using toilet and after termination of work.	
8.2.2 Environmental exposure limitation:	
Prevent spreading of dust during cutting, grinding, splitting etc.	

9. PHYSICAL AND CHEMICAL PROPERTIES	
The information relates to the preparation.	
9.1 General information:	State at 20 °C: solid – shape refractory product
	Color: varied
	Smell: none
9.2 Important information for the protection of health, safety and environment:	
pH value:	6-8
Boiling point (°C):	does not apply
Combustion point (°C):	is not combustible
Combustibility (°C)	is not combustible
Explosive properties:	none
Oxidation properties:	none
Vapor pressure:	does not apply
Relative density at 20 °C	1,9 – 2,35 g/cm ³ (bulk density)
Solubility:	insoluble
Solubility in water at 20 °C	insoluble
Partition coefficient n-octanol/water:	does not apply
Viscosity:	does not apply
Vapor density:	does not apply
Evaporation speed:	does not apply
9.3. Other information:	
Thaw point (°C):	does not apply

10. STABILITY AND REACTIVITY	
The product is stable under normal conditions.	
10.1 Conditions to avoid:	None
10.2 Materials to avoid:	Strong acids
10.3 Dangerous decomposition products:	None

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11. TOXICOLOGICAL INFORMATION

Entrance paths to organism: The product has no acute or chronic effects in case of standard entrance paths to organism.

11.1 Acute toxicity:

- LD₅₀, orally, brown rat (mg.kg⁻¹): not determined
- LD₅₀, dermally, brown rat or rabbit (mg.kg⁻¹): not determined
- LC₅₀, by inhaling, brown rat, for aerosols or particles (mg.kg⁻¹): not determined
- LC₅₀, by inhaling, brown rat, for gases and vapors (mg.kg⁻¹): not determined

11.2 Subchronic – chronic toxicity: Does not apply.

11.3 Other effects:

<u>Sensitization:</u>	None
<u>Carcinogenicity:</u>	None
<u>Mutagenity:</u>	None
<u>Toxicity for reproduction:</u>	None
<u>Experience with humans:</u>	Not stated.
<u>Tests on animals:</u>	No data available.

Other information: The product may contain crystalline silica. Inhaling dust from the product is considered a source of minimum risk of occurrence of pulmonary fibrosis (silicosis). However, suspicion of chronic obstructive pulmonary disorders occurs after a very long time of exposure (years) to concentrations exceeding permissible limits. Carcinogenicity of cristobalite has not been unambiguously proved in humans.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity: This is a material of natural origin and toxic effect upon water organisms is not assumed.

12.2 Mobility: No data available.

12.3 Persistence and decomposability: The product is inert and does not decompose.

12.4 Bioaccumulative potential: No data available.

12.5. PBT assessment results: Not required.

12.6. Other adverse effects: The product is inert and its possible negative effects consist in mechanic consequences of dusting.

13. DISPOSAL CONSIDERATIONS

13.1 Disposal of substance or preparation: Classification of waste according to Decree 381/2001 Coll. (Waste Catalogue):

10 12 08 Waste ceramic articles, bricks, roof tiles and building material (after heat treatment), category O.

Disposal of empty package: According to the nature of the structural material of the package, the waste is included in group 15 01 Waste (including separately collected municipal packaging waste), O category. An empty package free of remainder of content can be disposed of by processes depending on the structural material of the package (collection for repeated use, recycling, dumping, burning).

13.2 Suitable methods of disposal of substance or preparation: Dumping on waste dumps of the relevant group.

13.3 Statutory regulations concerning waste: Act No. 185/2001 Coll., on Waste
Decree No. 381/2001 Coll. (Waste Catalogue)
Decree No. 383/2001 Coll. on details of waste disposal

14. TRANSPORT INFORMATION

Land transport: ADR/RID: Not subject to regulations.

Inland water transport: Not subject to regulations.


Sea transport: Not subject to regulations.

Air transport: Not used.

15. REGULATORY INFORMATION

Chemical safety assessment for substances contained in the preparation was not carried out.

15.1 Information concerning the protection of health, safety and environment that must be stated on the

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substance or preparation package: The product is not subject to mandatory labeling.

15.2 Specific provisions on the level of the European Union

The Safety Data Sheet complies with EU regulations: Regulation (EC) No. 1907/2006 (REACH) of the European Parliament and the Council

15.3 Specific provisions concerning personal or environmental protection: Not specified.

16. OTHER INFORMATION

This Safety Data Sheet is issued by P-D Refractories CZ a.s. Velké Opatovice upon the client's request. Act No. 356/2003 Coll., on Chemical Substances and on Chemical Preparations and on amendments to certain other acts does not apply to heatproof products – paragraph 1, clause 2.

Guidelines for training:

To instruct on rules for handling the preparation and compulsory personal protective aids within the framework of Health and Safety Training.

Recommended limitations of use: To use only for purposes set forth by the manufacturer.

Other information: The above information describes exclusively safety requirements of products and is based on our current knowledge. It does not describe properties of products in the sense of quality parameters and statutory regulations for the performance of warranty.

Sources of the most important data: Information in this Sheet was elaborated on the basis of the manufacturer's information and valid statutory regulations of the Czech Republic.

Information of modifications and revisions:

Revision No.	Date	Modifications carried out
2.	20 June 2012	Revision