

# SAFETY DATA SHEET

(acc. to Regulation (EC) no. 1907/2006 of the European Parliament and of the Council)



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Revision:

Product name: **REFRAFIX PX**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### 1.1 Identification of the substance/preparation

Name: **REFRAFIX PX**

### 1.2 Use of the substance/preparation

Intended or recommended use of the substance/preparation: Bonding agent to refractory Mixes

### 1.3 Company/undertaking identification

Name or trade name of the **manufacturer**: Průmyslová keramika , spol. s r.o.  
Registered office/place of business: Spešovská 627, 679 02 Rájec-Jestřebí, Czech Republic  
Telephone: +420-516 432 197, 516 432 251  
Fax: +420-516 432 273  
Name or trade name of the **competent person** responsible for the Safety Data: Průmyslová keramika , spol. s r.o.  
Sheet elaboration:  
Email: ticha@prumker.cz

### 1.4 Emergency telephone – Czech Republic:

**+420 – 224 91 92 93; 224 91 54 02 (24hour service)**

Klinika nemocí z povolání – Toxikologické informační středisko, Na Bojišti 1, 128 08 Praha 2, CZ

## 2. HAZARDS IDENTIFICATION

### 2.1 Overall classification of the substance/preparation

**Xi; R 34**

The preparation is classified as dangerous according to Directives 67/548/EEC and 1999/45/EC.

### 2.2 Adverse human health and environmental effects

Caustic and excitable material. Fumes that the rise at strong warming, titillates leather, eyes and airways. At warming and analysis forms fumes poisonous oxides phosphorus.

### 2.3 Other possible hazards

Fire - resistant liquid. At response with metals will articulate hydrogen, gas forms afloat explosive mixtures. Product mustn't it pierce into surface and groundwater, drainage and below.  
Very harmful for aquatic life and fish.

### 2.4 Information shown on the label – see Section 15

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 General description

Preparation is wan liquid.

### 3.2 The preparation contains dangerous ingredients

Ingredient name	Content (%)	CAS number	ES number	Classification; R-phrases
Orthophosphoric acid	< 60	7664-38-2	231-633-2	C; R34

Note: Full wording of R-phrases is listed in Section 16.

Exposure limit values, if specified, are listed in Section 8.1.

## 4. FIRST AID MEASURES

### 4.1 General instructions

If symptoms persist or more serious health damage occurs, always seek medical help.

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## 4.2 Inhalation

Move the affected person to fresh air.

## 4.3 Skin contact

Remove contaminated clothing, wash affected skin with soap and water for at least 15 minutes.

## 4.4 Eye contact

Immediately rinse with running water for at least 15 minutes, seek medical help.

## 4.5 Ingestion

Flush out mouth water. No bicarbonate. At once summon doctor!.

## 4.6 Other information

None known.

## 5. FIRE-FIGHTING MEASURES

### 5.1 Suitable extinguishing media

Non-flammable preparation.

### 5.2 Unsuitable extinguishing media

Data are not given.

### 5.3 Special exposure hazards

During fire they may create caustic and toxic fumes, fumes and smokes.

### 5.4 Special protective equipment for fire-fighters

Data are not given.

### 5.5 Other information

Data are not given.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions

Avoid contact with liquid. Necessary equipment personal prophylactic.

### 6.2 Environmental precautions

Prevent the preparation from entering soil, ground and/or surface waters.

### 6.3 Recommended methods of cleaning up and disposal

Fumes acids phosphoric dilute pulverized flash. Escaped liquid enclose and pump over to the reserve acid - proof covers, disuse metal wraps. Left over liquid fill stamped calcite or other fit absorbing material.

### 6.4 Other information

At contact prep school with metals switch off the ignition, no smoke, disuse seat power control apparatus and sparking contact - maker (possibility rise hydrogen – explosion hazard).

## 7. HANDLING AND STORAGE

### 7.1 Handling

Use personal protective equipment, prevent contact with eyes and skin.

### 7.2 Storage

Store at temperatures above 0 °C (32 °F). Material warehouses in original pent - up covers in well ventilated, dry, cool premises. Vessel protect from warm up. Mustn't it warehouse along with edible and combustible materials.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Exposure limit values

Czech Republic:

Control parameters of preparation ingredients are not specified in Decree no. 178/2001 Coll., as amended.

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**Limit values of biological exposure tests indicators for the preparation are not specified in Decree no. 432/2003 Coll.**

**EU:**

**Exposure limit values according to Directive 2000/39/EC – are not given.**

## 8.2 Exposure controls

Provide adequate ventilation; local exhaustion recommended. Ensure that only personnel using personal protective equipment handle the preparation. Contaminated work clothing may be reused only after being thoroughly cleaned. Wash hands and face thoroughly with soap and water after finishing work. Do not eat, drink or smoke at work. Provide an emergency shower and eyewash in the workplace.

### 8.2.1 Occupational exposure controls

<b>Respiratory protection:</b>	face - guard filter - tipped that the absorbs acid fumes
<b>Eye protection:</b>	protective goggles / face shield
<b>Hand protection:</b>	rubber/polyethylene gloves
<b>Skin protection:</b>	protective work clothing and footwear

Czech Republic: Personnel responsible for occupational safety of employees shall determine a method for monitoring the substance content in the workplace atmosphere and specification of protective equipment according to Government Decree no. 178/2001 Coll., as amended.

### 8.2.2 Environmental exposure controls

Czech Republic: See Act no. 86/2002 Coll., on the atmosphere protection; Act no. 254/2001 Coll., on waters.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 General information

Physical state (at 20°C): liquid  
Colour: wan or greeny or yellowish  
Odour: pungency

### 9.2 Important health, safety and environmental information

pH (at °C): < 0,5  
Boiling point/boiling range (°C): 135 °C  
Flash point (°C): information not available  
Flammability: non-flammable material  
Explosive properties: data are not given  
Explosive limits: upper limit (% vol.): information not available  
lower limit (% vol.): information not available  
Oxidising properties: information not available  
Vapour pressure (at °C): 0,003mbar  
Relative density (at 20°C/68°F): 1,37 g/cm<sup>3</sup>  
Solubility (at °C): data are not given  
Water solubility (at °C): unlimited  
Partition coefficient n-octanol/water: data are not given  
Viscosity: data are not given  
Vapour density: data are not given  
Evaporation rate: data are not given

## 10. STABILITY AND REACTIVITY

Stable under normal usage and storage conditions.

### 10.1 Conditions to avoid

Prevent intercourse with combustible materials, alkaline materials, powder - metal and carbides. Frost - free. At warm up forms fumes poisonous oxides phosphorus.

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## 10.2 Materials to avoid

Metal materials.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Description of exposure symptoms

Preparation is absorbed airways and digestive tract. Irritates mucous membrane, digestive organism, evokes sleeplessness, dizziness, dermatitis.

air: at high concentration can cause irritation conjunctivas,

mucous membrane, upper respiratory tract

contact with skin: irritates skin, penetrates into subcutaneous tissues and muscles

contact with eyes: causes irritation conjunctivas and damage cornea

ingestion: causes sharp stomatalgia, throat, esophagus and

### 11.2 Dangerous-to-health effects

#### Acute toxicity

- |   |                    |
|---|--------------------|
| - LD <sub>50</sub> , oral, rat (mg/kg):             | data are not given |
| - LD <sub>50</sub> , dermal, rat or rabbit (mg/kg): | data are not given |
| - LC <sub>50</sub> , inhalatory, rat (mg/L):        | data are not given |

#### Sub-chronic - chronic toxicity

Data are not given.

#### Sensitisation

Data are not given.

#### Carcinogenicity

Data are not given.

#### Mutagenicity

Data are not given.

#### Toxicity for reproduction

Data are not given.

#### Other information

## 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

No adverse effects for the environment.

- |   |                    |
|---|--------------------|
| - LC <sub>50</sub> , 24 hrs., fish (mg/L):    | 100-1000           |
| - EC <sub>50</sub> , 48 hrs., daphnia (mg/L): | data are not given |
| - IC <sub>50</sub> , 72 hrs., algae (mg/L):   | data are not given |

### 12.2 Mobility

Data are not given.

### 12.3 Persistence and degradability

Data are not given.

### 12.4 Bioaccumulative potential

Data are not given.

### 12.5 Results of PBT assessment

Data are not given.

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## 12.6 Other adverse effects

## 13. DISPOSAL CONSIDERATION

### 13.1 Possible danger resulting from the substance/preparation disposal

According to the Waste Catalogue the product may be dangerous waste.

European Waste Catalogue (EWC): data are not given.

### 13.2 Suitable methods for the substance/preparation and contaminated packaging disposal

Hand over labelled waste, including its identification sheet, for disposal to a specialised company authorised to carry out such activities. Packaging to be rinsed with water and placed on a landfill.

### 13.3 Legal regulations relating to waste

Czech Republic: Act no. 185/2001 Coll., on waste, as amended. Should this preparation and its packaging become waste, the end user must assign appropriate waste code in compliance with Decree no. 381/2001 Coll., as amended. Act no. 477/2001 Coll., on packaging, as amended.


Disposal must be made according to official regulations.

## 14. TRANSPORT INFORMATION

Not subject to ADR provisions (for transport of dangerous goods).

## 15. REGULATORY INFORMATION

### 15.1 Information shown on the label (acc. to Directives 67/548/EEC and 1999/45/EC):

REFRAFIX PX		
Contains: Orthophosphoric acid		
 Corrosive	R 34	Causes burns.
	S 1/2	Keep locked up and out of the reach of children.
	S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S 28	After contact with skin, wash immediately with plenty of water.
	S 36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
<b>Manufacturer:</b> Průmyslová keramika, spol. s r.o., Spešovská 627, 679 02 Rájec-Jestřebí, tel.: +420-516 432 197		

### 15.2 Special provisions and legal regulations at CZ level:

### 15.3 Special provisions and legal regulations at EU level

## 16. OTHER INFORMATION

### 16.1 List of R-phrases used in the Safety Data Sheet:

R 34 Causes burns.

### 16.2 Training advice:

Czech Republic: see Labour Code, Act no. 262/2006 Coll., as amended.

### 16.3 Recommended restrictions of use:

The substance shall not be used for any other purpose than the intended one (see Section 1.2). Since specific conditions of the substance usage are beyond the supplier control, it is the user's responsibility to adapt specified notices for local laws and regulations. Safety information describes the product in terms of safety, and therefore may not be considered to be technical information about the product.

### 16.4 Further information:

Further information shall be provided by the Safety Data Sheet elaborator or importer/distributor.

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## 16.5 Sources of key data:

The information contained herein is based on our best knowledge and the present legislation, especially Act no. 356/2003 Coll., as amended, incl. complementary regulations, and Regulation no. 1907/2006 of the European Parliament and of the Council (EC). Further, the Safety Data Sheet has been elaborated on the basis of the original Safety Data Sheet provided by the manufacturer.

## 16.6 Changes resulting from the SDS revision:

First issue 14. 11. 2008