

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

ŽÁROTMEL VS-K-1200

Creation date 03rd November 2008
Revision date 30th July 2021 Version 6.0

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

- 1.1. Product identifier** ŽÁROTMEL VS-K-1200
Substance / mixture mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Refractory mastic for joining lightweight, absorbent and porous refractory materials based on ceramic fibers.
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 Průmyslová keramika, spol. s r.o.
Address Spešovská 627, Rájec-Jestřebí, 67902
Czech Republic
Identification number (CRN) 43420150
Phone +420 516432197
E-mail prumker@prumker.cz
Web address www.prumker.cz
Competent person responsible for the safety data sheet
Name Renata Tichá
E-mail ticha@prumker.cz
- 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.
Most serious adverse physico-chemical effects
Not known.
Most serious adverse effects on human health and the environment
Causes skin irritation. Causes serious eye irritation.
- 2.2. Label elements**
Hazardous substances
sodium silicate solution
Precautionary statements
P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/protective clothing.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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.
- 2.3. Other hazards**
Supplemental information
Contains sodium silicate (CAS 1344-09-8; ES 215-687-4)

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

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

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 14808-60-7 EC: 238-878-4	quartz (SiO ₂)	<30	not classified as dangerous	
CAS: 1344-09-8 EC: 215-687-4 Registration number: 01-2119448725-31-0025	sodium silicate solution	<20		

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

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.

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.

If swallowed

Rinse mouth with clean water. Seek medical advice in case of difficulties.

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

If inhaled

No expected. Not expected.

If on skin

No expected. Not expected.

If in eyes

No expected. Not expected.

If swallowed

No expected. Not expected.

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 mixture is non-flammable. Adapt extinguishing agents surrounding fire.

Unsuitable extinguishing media

Not known

5.2. Special hazards arising from the substance or mixture

Not known

5.3. Advice for firefighters

No special precautions are required.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

The mixture is non-flammable. Prevent contact with skin and eyes. Use personal protective equipment for work. A clean water container should be placed in the work area to wash eyes. Follow the instructions in the Sections 7 and 8.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Sweep and place the substance in new packaging and remove according to Section 13.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Mastic is strongly alkaline. That is why we recommend to wash hands thoroughly and to care for them with usual regenerative helps.

7.2. Conditions for safe storage, including any incompatibilities

Store in dry, well-sealed containers at temperatures above 0 ° C. Protect against freezing and drying.

7.3. Specific end use(s)

See Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

DNEL

sodium silicate solution

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Dermal	1.59 mg/kg bw/day	Systemic chronic effects		BL látky
Workers	Inhalation	5.61 mg/m ³	Systemic chronic effects		BL látky
Consumers	Dermal	0.8 mg/kg bw/day	Systemic chronic effects		BL látky
Consumers	Inhalation	1.8 mg/m ³	Systemic chronic effects		BL látky
Consumers	Oral	0.8 mg/kg bw/day	Systemic chronic effects		BL látky

PNEC

sodium silicate solution

Route of exposure	Value	Determining method
Water (regular leak)	7.5 mg/l	
Water (intermittent release)	7.5 mg/l	
Seawater	1 mg/l	
Microorganisms in wastewater treatment plants	348 mg/l	

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8.2. Exposure controls

Follow the usual measures for health protection at work. 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. It is recommended after work wash your hands with warm water and soap and treat with regenerative cream.

Eye/face protection

Protective goggles.

Skin protection

Protection of hands: Protective gloves
Other: Protective workwear and footwear

Respiratory protection

It is not needed.

Thermal hazard

not available

Environmental exposure controls

Observe the usual environmental precautions, see section 6.2. Observe usual measures for protection of the environment, see Section 6.2.

More information

Mastic is strongly alkaline. That is why we recommend to wash hands thoroughly and to care for them with usual regenerative helps.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	light brown
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	data not available
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	data not available
Form	paste

9.2. Other information

not available

SECTION 10: Stability and reactivity

10.1. Reactivity

The mixture is non-flammable.

10.2. Chemical stability

The mixture is stable under normal conditions. The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

The mixture is stable under normal conditions. The product is stable under normal conditions.

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10.4. Conditions to avoid

The mixture is stable and no degradation occurs under normal use.
Protect from frost and drying.

10.5. Incompatible materials

No known under the recommended conditions of use.

10.6. Hazardous decomposition products

Unknown.

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.

sodium silicate solution

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Source
Oral	LD ₅₀	3400 mg/kg		Rat (<i>Rattus norvegicus</i>)		BL látky

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.

11.2. Information on other hazards

not available

SECTION 12: Ecological information

12.1. Toxicity

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Acute toxicity

Data for the mixture are not available.

sodium silicate solution

Parameter	Value	Time of exposure	Species	Environment	Source
LC ₅₀	1108 mg/l	96 hour	Fishes (Branchydanio rerio)		BL látky
EC ₅₀	1700 mg/l	48 hour	Daphnia (Daphnia magna)		BL látky
EC ₅₀	>348 mg/l	18 hour	Microorganisms (Pseudomonas putida)		BL látky

12.2. Persistence and degradability

not available

12.3. Bioaccumulative potential

not available

12.4. Mobility in soil

not available

12.5. Results of PBT and vPvB assessment

The mixture is not classified as PBT or vPvB.

12.6. Endocrine disrupting properties

not available

12.7. Other adverse effects

not available

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.

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

14.2. UN proper shipping name

not relevant

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

not available

14.7. Maritime transport in bulk according to IMO instruments

not relevant

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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 of 16th 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, as amended.

15.2. Chemical safety assessment

not available

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

Guidelines for safe handling used in the safety data sheet

P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves/protective clothing.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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.

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
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC ₅₀	Concentration of a substance when it is affected 50% of the population
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
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
log K _{ow}	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million

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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

Without classification Without classification

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.

The changes (which information has been added, deleted or modified)

The version 6.0 replaces the SDS version from 09 March 2017. Changes were made in sections 2, 13, 15 and 16.

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.