Safety Data Sheet

according to Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 453/2010

Product name: ***Natural extracted aggregate***

SECTION 1: Substance/mixture/product identification

1.1. Product identifier

STONE AGGREGATE

REACH registration number: Exemption in accordance with Appendix V. 7.

Trade name:
PŘÍRODNÍ TĚŽENÉ KAMENIVO frakce 0/1, 0/4, 4/8, 8/16 (NATURAL EXTRACTED STONE AGGREGATE, fraction 0/1, 0/4, 4/8, 8/16)

Chemical name/synonyms: sand

1.2. Recommended use and not recommended use of the substance or mixture

Main areas of application:

- stone aggregate for concrete
- stone aggregate for mortar
- stone aggregate for asphalt and surface layer of roads, airports and other ways intended for transport
- aggregate for loose mixtures and mixtures with hydraulic binding agents, intended for civil engineering structures and roads
- glass and ceramic industries
- other purposes

1.3. Detailed data of the supplier

České štěrkopísky spol. s r.o.
Cukrovarská 34, Praha 9 - Čakovice
Závod Lhota pod Libčany
Telephone +420 283 930 404
E-mail address of the person responsible for this Safety Data Sheet: budinsky@ceske-sterkopisky.cz

1.4. Emergency telephone number

Toxicology Information Centre (TIC) +420 224 919 293 (24 hours)
Na Bojišti 1, 128 08 Prague 2, ČR +420 224 915 402 (24 hours)
E-mail: tis@mbox.cesnet.cz

SECTION 2: HAZARDS IDENTIFICATION

2.1. Substance classification

This product is not classified as dangerous according to Regulation EC 1272/2008 and Directive 67/548/EEC.
In the course of processing and use (e.g. crushing, grinding, drying), formation of airborne respirable crystalline silica dust (quartz, cristobalite) can occur. Long-time exposure of respirable crystalline silica or cristobalite can cause fibrosis, commonly referred to as silicosis. Main silicosis symptoms are cough and shortness of breath. Long-time exposure of the staff to respirable crystalline silica dust must be monitored and controlled.
Handle with care, avoid dust formation.

Regulation EC 1272/2008:
Not classified.

EU Classification (67/548/EEC) :
Not classified.
The product contains less than 1.0 weight % of respirable silica

2.2 Label elements

None.

2.3 Other hazards

This product is an inorganic substance and does not meet the criteria of PBT and vPvB substances, as set forth in Appendix XIII. REACH.

SECTION 3: Composition/ information on ingredients

3.1. Ingredients

Name	CAS-No	EINECS No
Silica	014808-60-7	238-878-4

3.2. Essential ingredients

Name	CAS-No	EINECS No
Silica	014808-60-7	238-878-4

3.3. Impurities

The product contains less than 1% of respirable silica.

SECTION 4: First aid measures

4.1. First aid procedures

If in eyes:
Rinse with plenty of water. If the irritation persists, seek medical advice.

If swallowed
No first aid measures required.

If inhaled
Remove the victim to fresh air.

If on skin
No specific first aid measures required.

4.2 Most important symptoms and effect, both acute and delayed
Not any acute or delayed symptoms have been found.

4.3 Indication of any immediate medical attention and special treatment needed
Not any specific measures are needed.

SECTION 5: Fire fighting measures

5.1. Extinguishing media
Not any specific extinguishing media are required.

5.2. Special hazards arising from the substance or mixture
The product does not burn. No hazardous thermal decomposition.

5.3. Advice for fire fighters
Not any specific fire protection is required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid formation of airborne dust, wear personal protective equipment in accordance with local regulations.

6.2 Environmental precautions
No specific requirements.

6.3 Methods and materials for containment and cleaning up
Avoid sweeping, use water spraying cleaning systems or dust extractors to avoid formation of airborne dust. Wear personal protective equipment in accordance with local regulations.

6.4 Reference to other sections
See sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling
Avoid formation of airborne dust. Provide adequate dust extraction at the places where formation of airborne dust occurs. Use respirator if adequate ventilation is not possible. Refer to your supplier for advices on safety handling techniques or read the Good Practise Guide, referred to in section 16. Do not drink and eat at the place of work, wash hands and take off contaminated clothes and personal protective equipment before entering into rooms intended for consuming food.

7.2. Conditions for safe storage of the substance or mixture and incompatible substances and mixtures

TECHNICAL AND SAFETY MEASURES
Minimize formation of airborne dust, avoid its stirring up by wind during loading/unloading the substance.
Keep transport containers closed.

7.3. Specific final use
Refer to your supplier for advices on specific use or read the Good Practise Guide, referred to in section 16.

SECTION 8. Exposure controls/personal protective equipment

8.1. Control parameters
Observe exposure regulation limits for all types of airborne dust (total dust, respirable dust, respirable crystalline silica dust) at the workplace. Occupational exposure limits (OEL) have been set in the Czech Republic (8-hour weighted average):

PELr*/PELc mg/m^3 (other silicates, except of asbestos) 2.0 / 10.0 mg/m^3
** Content of SiO_2 in the respirable fraction < 5% (applicable in the Czech Republic)*
PELr/PELc mg/m^3** (other silicates, except of asbestos) 10.0 : Fr / 10.0 mg/m^3
*** Content of SiO_2 in the respirable fraction >5% (applicable in the Czech Republic)*
Fr – content of other fibrogenous components in the respirable fraction in %

Refer to the occupational health and safety officer or relevant local regulation authority for equivalent limits applicable in other countries.

8.2. Exposure controls

8.2.1. APPROPRIATE TECHNICAL CONTROLS

Minimize formation of airborne dust. Use covering elements to keep the process closed, local dust extraction and ventilation systems and other technical measures to keep airborne dust concentration below set limits in the working environment. If any working activity results in forming dust, use ventilation to keep airborne dust concentration below set limits in the working environment.

8.2.2. INDIVIDUAL PROTECTION MEASURES INCLUDING PERSONAL PROTECTIVE EQUIPMENT

a. Eye protection
In case of mechanical eye damage risks, use safety glasses with side shields. Do not wear contact lenses when handling the product.

b. Skin protection
No specific protection required.
Hand protection: The persons with eczema or sensitive skin are recommended to wear protective gloves. After the work, wash hands and apply protective skin crème.

c. Respiratory protection
In case of long-term exposure to airborne dust concentrations wear adequate respirators in compliance with European and national regulations.

8.2.3 LIMITATION OF ENVIRONMENTAL EXPOSURE

Avoid dust stirring up.

SECTION 9. Physical and chemical properties

9.1. Information on the essential physical and chemical parameters

a. Form	solid substance (grains, stones)
b. Odour	no
c. Odour threshold	irrelevant
d. pH (400 g/l water at 25°C)	not specified
e.Melting point/Freezing point	not specified
m. Relative density	not specified
n. Solubility in water	not soluble
Solubility in hydrogen fluoride acid	yes

9.2. Other information

No other information available

SECTION 10. Stability and reactivity

10.1. Reactivity
inert, no reaction

10.2. Chemical stability
stable

10.3. Possibility of hazardous reactions
no hazardous reactions.

10.4. Conditions to avoid
irrelevant

10.5. Incompatible materials
no specific incompatibilities

10.6. Hazardous decomposition products
irrelevant

SECTION 11. Toxicological information

11.1 Information on toxicological effects

a. Acute toxicity
According to information available, the criteria for classification have not been met

b. Skin corrosion/irritation
According to information available, the criteria for classification have not been met

c. Serious eye damage/eye irritation
According to information available, the criteria for classification have not been met

d. Respiratory or skin sensitization
According to information available, the criteria for classification have not been

e. Germ cell mutagenicity
According to information available, the criteria for classification have not been met

f. Carcinogenicity
According to information available, the criteria for classification have not been

g. Reproductive toxicity
According to information available, the criteria for classification have not been met

h. Specific target organ toxicity – single exposure
According to information available, the criteria for classification have not been met

i. Specific target organ toxicity – repeated exposure
According to information available, the criteria for classification have not been met

j. Aspiration hazard
According to information available, the criteria for classification have not been met

SECTION 12. Ecological information

12.1. Toxicity
irrelevant

12.2 Persistence and degradability
irrelevant

12.3 Bioaccumulative potential
irrelevant

12.4 Mobility in soil
negligible

12. 5 PBT and vPvB assessment
irrelevant

12.6 Other adverse effects
Not any specific adverse effects known, nevertheless, extensive and frequent accidental releases of the material may have harmful or destructive effects on the environment.

SECTION 13. Instructions for disposal

13.1. Waste treatment methods

RESIDUAL WASTE FROM USED PRODUCTS
Dispose in accordance with local regulations.

PACKING
Avoid formation of dust from residues. The persons packing the substance should wear adequate personal protective equipment. Dispose in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

14.1. UN Number
irrelevant

14.2. Appropriate UN name for consignment
irrelevant

14.3. Transport hazard classification
ADR: Not classified
IMDG: Not classified
ICAO/IATA: Not classified
RID: Not classified

14.4. Package group
irrelevant

14.5. Environmental hazard class
irrelevant

14.6. Specific safety measures for users
not specified

14.7. Mass transport pursuant to Appendix II MARPOL73/78 and IBC regulation
irrelevant

SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
INTERNATIONAL LEGISLATION / REQUIREMENTS
Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 453/2010)

15.2 Chemical safety assessment
The substance is not subject to REACH registration pursuant to Appendix V. 7.

SECTION 16. Other information

Reasons for amendment of the Safety Data Sheet:
Regulation (EC) 1272/2008 and Regulation (EC) 453/2010)
Version 07. 1 – Trade name changes

Third-party materials

If any materials not produced/supplied by České štěrkopísky spol. s r.o. are used in combination with or instead of the materials of České štěrkopísky spol. s r.o. the customer shall be liable for obtaining all technical data as well as supporting and other materials and appropriate information from the relevant manufacturer and/or supplier. No liability can be assumed for use of the products manufactured by České štěrkopísky spol. s r.o. in combination with the materials from other suppliers.

Liability

This information has been provided to the best of the knowledge of České štěrkopísky spol. s r.o. at the relevant date and it is anticipated exact and reliable. However, this statement shall not be construed as assurance, undertaking of guarantee of their accuracy or completeness. The user shall be liable for obtaining all information and data necessary for guaranteeing completeness and suitability for its own specific use.

Training
The staff must be informed on presence of crystalline silica substance in the product and trained for correct use and handling of the product in accordance with local legislation.

Social dialogue on respirable crystalline silica
Multi-sectorial Agreement on Workers' Health Protection Through the Good Handling and Use of Crystalline Silica and Products Containing it was signed on 25 February 2006. This Agreement, subsidized by the European Union, stems from the Good Practise Guide. The requirements defined in this Agreement became effective as from 25 October 2006. The Agreement was published in the Official Bulletin of the European Union (2006/C 279/02). The text of the Agreement and its appendices, incl. Good Practise Guide, are available at http://www.nepsi.eu and provide useful information and guidance for handling products containing free respirable crystalline silica. The references are available on request from the EUROSIL (European Association of Silica Producers). Long-time or extensive inhalation of respirable silica fraction can cause silicosis, i.e. nodular pulmonary fibrosis, resulting from deposition of fine respirable silica particles in lungs. In 1997 International Agency for Research on Cancer (IARC) arrived at the conclusion that crystalline silica inhaled from sources in the working environment can cause lung cancer, however, it was emphasized that this does not apply to all industrial conditions and all crystalline silica types. (IARC monograph on evaluation of carcinoma risk in persons caused by chemical substances, silicon, silica dust and organic fibres 1997, volume 68, IARC, Lyon, France). In June 2003 Scientific Committee on Occupational Exposure Limits (SCOEL) arrived at the conclusion that silicosis is the main consequence of inhalation of respirable crystalline silica dust in humans. There exist sufficient data to conclude that relative risk of lung cancer is higher for persons with silicosis (and it seems that this is not the case for the employees not suffering from silicosis who are exposed to effects of silica dust in quarries and ceramic industry). Consequently, prevention of silicosis also reduces the risk of cancer (SCOEL SUM Doc-94- final, June 2003).
Hence, there is sufficient evidence to support the assumption that an increased risk of carcinoma is only in persons who already have silicosis. Protection of workers against silicosis should be provided by way of observance of existing exposure limits at work and implementation of additional risk management measures, where required.

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