

Safety Data Sheet (Pursuant to Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 453/2010

Revision: 7.8.2011

I. IDENTIFICATION OF THE SUBSTANCE/COMPOUND AND COMPANY

Product identification

Silica casting sand

Registration number

Exempt pursuant to Annex V.7.

Commercial names

Name	Main fractions	Class
Coarse silica sand	0,40/0,315/0,20	1K
Coarse silica sand	0,20/0,315/0,40	1K
Medium silica sand	0,20/0,315/0,16	1K
Fine silica sand	0,20/0,16/0,10	1K
Fine silica sand	0,10/0,16/0,20 (0,1-0,3)	1K
Very fine silica sand	0,10/0,16/0,071	2K

Use of the substance/compound

Silica sand intended for use in the metal casting industry, the glass making industry, construction chemicals, water treatment and other industrial sectors.

Manufacturer:

Grudzen Las Spolka. Z o.o

Grudzen Las 28, 26-332 Slawno k/Opoczna, Poland

Importer – Safety Data Card supplier:

TplusT s.r.o.

A.Kmet'a 28, 036 01 Martin

Slovak Republic

Tel: 00421 43 4220334, Fax: 00421 43 4221615

E-mail for party responsible for Safety Data Card:

tplust@gaya.sk

Tel. contact: +421905330250

+421905330251

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Emergency phone number:

+421 (2) 5477 4166

National Toxicology Information Centre, Limbová 5, 831 01 Bratislava

2. HAZARD IDENTIFICATION

Classification of the substance or compound

This product does not correspond to criteria in terms of the criteria for hazardous materials pursuant to EC Regulation 1272/2008 and Directive 67/548/EEC. Depending on the currently used type of materials and the actual type used (e.g. ground, dried, etc.), an airborne aerosol mixture can form from the residual crystalline silica materials. Extended or excessive inhalation of this aerosol mixture of crystalline silica can cause fibrosis of the lungs, which is also known as silicosis. The main symptoms of silicosis include cough and shortness of breath. Work related exposure to silica crystalline silica must be monitored and properly controlled. It is necessary to take protective measures when handling the product in order to avoid the production of such dust.

Regulation (EC) 1272/2008

No classification

EU Classification (67/548/EEC)

No classification. This product contains less than 1% residual silica (inhalable).

Markings

None

Other hazards:

This product is an inorganic substance and does not fulfil the PBT or vPvB criteria pursuant to Annex XIII to the Reach Directive.

3. COMPOSITION / INFORMATION ON COMPONENTS

Main component:

Silica

Quantity:

SiO₂ > 99.20 %

EINECS:

238-878-4

CAS:

014808-60-7

Mixtures: This compound contains less than 1% inhalable silica classified as STOT RE1.

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4. FIRST AID MEASURES

Description of first aid measures

Eye contact:

Rinse with large quantities of water and seek medical assistance if irritation persists.

Inhalation:

Take the victim to an area with fresh air.

Ingestion:

No first aid required.

Skin contact:

No special first aid required.

Important symptoms and effects, acute and delayed:

No acute or delayed symptoms are observed.

Information on need for immediate medical assistance and specific treatment

No specific treatments are required

5. FIRE SAFETY

Fire extinguishers

No specific fire extinguishers are needed.

Special threats posed by the substance or compound

Inflammable. The substance does not pose a thermal breakdown hazard.

Advice for fire-fighters:

No specific fire safety measures are required.

6. ACCIDENTAL RELEASES

Specific safety measures, protective equipment and emergency procedures:

Avoid any release of aerosol dust, use personal protective equipment pursuant to national legislation.

Environmental safety measures

No specific requirements.

Methods and materials for preventing spreading and cleaning

Avoid dry clean-up methods, use water mist or vacuum cleaning systems in order to avoid the formation of an aerosol dust. Use personal protective equipment pursuant to national legislation.

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7. HANDLING AND STORAGE

Safe handling measures

Avoid any release of aerosol dust. Secure sufficient ventilation for sites where aerosol dust is generated. Use suitable protective respiration equipment in areas with insufficient ventilation. Take exceptional care when handling materials in order to avoid damage to the packaging. Please contact the supplier for more help concerning safe handling. Do not drink or eat in workspaces; clean hands and remove contaminated work clothing and equipment before entering food service facilities.

Safe storage conditions including any incompatibility

Technical measures / Preliminary measures

Try and minimize the formation of aerosol dust and avoid wind dispersion of the product during loading and unloading. Keep transport containers closed and store packaged products so as to avoid accidental damage.

Specific commercial use

Please contact the supplier if you need to consult specific commercial use of the product.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Control parameters

Follow exposure limits for the given worksite related to all types of aerosol dust (e.g. overall dust, inhalable dust and dust from crystalline silica).

OEL (worksite exposure limits) for inhalable crystalline silica is $0.1\text{mg}/\text{m}^3$ – Slovak legislation, measures at 8 hours TWA (time weighted average). Concerning equivalent limits for other countries, please contact the competent Hygienic Office or locally responsible office.

Exposure

control

Appropriate technical assurance

Try and minimize the formation of aerosol dust. Use appropriate systems of covers, local ventilation systems and other methods in order to maintain the level of inhalable aerosol silica dust below the specified exposure limits. If the given worksite generates dust, smoke or fog, use appropriate ventilation systems in order to maintain the concentration of inhalable aerosol particulate below the exposure limit values. If necessary, apply appropriate organizational changes and isolate people from dusty areas. Remove and clean contaminated clothing.

Individual protective measures, e.g. personal protective equipment

Eye/face protection

Use full coverage protective eyewear if circumstances exist that could lead to eye damage or injury.

Skin protection

No specific measures. Employees who suffer from dermatitis or sensitive skin should use appropriate protection (e.g. protective clothing and a protective cream)._____

Protective gloves

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Employees who suffer from dermatitis or sensitive skin should use appropriate protection (e.g. protective clothing and a protective cream). Wash hands at the end of every work shift.

Respiratory protection

Extended exposure to higher concentrations of inhalable aerosol dust requires the use of protective respiration equipment corresponding to EU requirements or local requirements in the given country.

Environmental exposure controls

Try and prevent the material from spreading caused by the wind.

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Information on basic physical and chemical characteristics

Appearance

Solid

Grain shape

Angled

Colour

Grey/white

Odour

Odourless

Threshold odour value - Not applicable

pH

pH (400 g/l water at 20°C)

5 – 8

Melting / solidification temperature

1710°C

Relative density

2.65 g/cm³

Solubility in water

Insignificant

Solubility in hydrogen fluoride

Yes

Other information

No additional information

10. STABILITY AND REACTIVITY

Reactivity

Inert, non-reactive

Chemical stability

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Chemical stability

Potential hazardous reactions

No chemical reaction hazard

Conditions to be avoided

Not applicable

Incompatible materials

No relevant incompatibility

Hazardous breakdown products

Not applicable

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Classification criteria are not met based on available data

Skin burns/irritation

Classification criteria are not met based on available data

Serious eye damage or irritation

Classification criteria are not met based on available data

Respiration or skin sensitization

Classification criteria are not met based on available data

Embryonic cell mutations

Classification criteria are not met based on available data

Carcinogenic

Classification criteria are not met based on available data

Reproductive toxicity

Classification criteria are not met based on available data

Toxicity for specific target organ (STOT) for single exposure

Classification criteria are not met based on available data

Toxicity for specific target organ (STOT) for repeated exposure

Classification criteria are not met based on available data _

Aspiration hazard

Classification criteria are not met based on available data.

12. ECOLOGICAL INFORMATION

Toxicity

Not applicable

Persistence and degradation

Not applicable

Soil mobility

Insignificant

Results of PBT and PvB assessment

Not applicable

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Other negative effects

Not applicable

13. DISPOSAL INSTRUCTIONS

Waste handling

Waste from residual / unused products

If possible, recycling is the preferred option for disposing of the product. The product can be disposed of pursuant to local regulations and directives. Waste marking: 16 03 04 - O – Inorganic waste other than shown in 16 03 03

Packaging

Dust must be prevented from forming from the remaining product in packaging and sufficient employee protection must be secured. Store packaging in protected covers. Recycle and dispose of products pursuant to local regulations. Repeated use of packaging is not recommended in this case. Packaging recycling and disposal must be performed by a company authorised to dispose of such waste.

14. TRANSPORT INFORMATION

UN number

Not applicable

Proper UN shipment markings

Not applicable

Transportation hazard classifications

ADR: Unclassified

IMDG: Unclassified

ICAO/IATA: Unclassified

RID: Unclassified

Packaging group

Not applicable

Environmental hazard

Not applicable

Personal safety measures for users

No specific measures

Bulk freight transport pursuant to Annex II to MARPOL 73/78 Convention and IBC Codex

Not applicable

15. REGULATORY INFORMATION

Regulation / legal regulations specific for the substance or compound in terms of safety, health and the environment

Chemical safety assessment

Exempt from REACH registration pursuant to Annex V.7._

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16. OTHER INFORMATION

Training

Workers must be informed of the presence of crystalline silica and must be trained to properly use and handle such products as required by applicable requirements.

Civic dialogue related to crystalline silica

An agreement was signed on 25 April 2006 on the basis of multi-sector dialogue on the proper handling and use of products containing crystalline silica. This autonomous agreement, financially supported by the EU, has led to a manual for proper use. All requirements shown in the agreement entered into force on 25 October 2006. The agreement was published in the Official Journal of the EU (2006/C 279/02). The entire text of the agreement and all annexes, including the manual for proper use, are available at <http://www.nepsi.eu/> and provide useful information and a manual for handling products containing inhalable traces of crystalline silica. All references are available upon request from EUROSIL, the official body representing European industrial silica producers.