Hichleistungs

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14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code The cargo is not intended to be carried in bulk.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Industry or sector specific available guidance(s) European Network on Silica (nepSi)

"10 Golden Rules to suppress dust"

National regulations see section 8 for Occupational Exposure Limits

(OELs)

Recommendations
 Health and Safety Executive (HSE): Control of ex-

posure to silica dust

Health and Safety Executive (HSE): Respiratory protective equipment at work (practical guide HSG53)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations		
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)		
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures		
DPD	Dangerous Preparations Directive (1999/45/EC)		
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations		
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant)		
PBT	Persistent, Bioaccumulative and Toxic		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals		
vPvB	very Persistent and very Bioaccumulative		

Key literature references and sources for data

Regulation (EC) No. 1272/2008 (CLP, EU GHS)

Classification procedure

Physical and chemical properties: The classification is based on tested mixture. Health hazards/Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.



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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)

Shall not be classified as hazardous to the aquatic environment (acc. to 1272/2008/EC).

12.2 Process of degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Possibility of reuse or recycling.

Waste treatment of containers/packagings

Completely emptied packages can be recycled.

Relevant provisions relating to waste

Non-hazardous waste in accordance with Article 3 (2) in conjunction with Annex III of Directive 2008/98/EC. Please consider the relevant national or regional provisions.

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN	number
---------	--------

14.2 UN proper shipping name not relevant

14.3 Transport hazard class(es)

Class

14.4 Packing group not relevant

14.5 Environmental hazards none

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.



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9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

There is no additional information.

Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification according to GHS (1272/2008/EC, CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.



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Individual protection measures (personal protective equipment)

Eye/face protection

Use safety goggle with side protection.

Skin protection

hand protection

Wear protective gloves

type of material

reinforced coating: nitrile, NR: natural rubber, latex

· other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling. Wear suitable working clothes.

Respiratory protection

Use respiratory protection for dust-intensive work: Filtering half-face mask (EN 149).

Environmental exposure controls

Control of dust. Use of compressed air to clean clothes prohibited.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: solid (spherical)

Colour: transparent

Odour: odourless

Other physical and chemical parameters

pH (value): not applicable

Melting point: c. 1400 °C

transition temperature: c. 630 °C

Initial boiling point and boiling range:

Flash point:

Evaporation rate:

Flammability (solid, gas):

Vapour pressure:

Density:

not applicable

not applicable

not applicable $2 - 2,6^{9}/_{cm^3}$

Bulk density: 1,2 - 1,8 $^{9}/_{cm^{3}}$ (depending on the grain size)

Solubility(ies)

- water solubility: insoluble

Partition coefficient not applicable

Viscosity not relevant (solid matter)

Explosive properties: none
Oxidising properties: none



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RU (ПДК) - acc. to "GOST 12.1.005-88" 10

SE (HGV) - acc. to "AFS" 10 (i) / 5 (r) SI (MVPI) - acc. to "Ur.I. RS, št. 102/2010" 6 (r)

10 (i) / 5 (r) TW (PEL) - acc. to "CLA"

Notation

inhalable fraction respirable fraction

this OEL value corresponds to that of other listed phthalates

BG (Bulgaria)

ГСРМ: Граничните Стойности на Работното Място (limit values at workplace) Наредба No 13: За защита на работещите от рискове, свързани с експозиция на химични агенти при работа. (The protection of workers from the risks related to the exposure to biological agents at work.)

EE (Estonia)

TKOP: Töökeskkonna Keemiliste Ohutegurite Piirnormid (occupational exposure limit values)
VV 18. 2001. nr 293: Vabariigi Valitsuse 18. septembri 2001. a määrus nr 293 "Töökeskkonna Keemiliste Ohutegurite Piirnormid" (18
Government of the Republic September, 2001. Regulation No. 293 "Occupational Exposure Limits")

GB (Great Britain)

WEL: Workplace Exposure Limits EH40/2005 Workplace exposure limits, Table 1: List of approved workplace exposure limits (as consolidated with amendments December 2011) (http://www.nationalarchives.gov.uk/doc/open-government-licence/)

HR (Croatia)

VI: Graničnim Vrijednostima Izloženosti (exposure limits)
NN 13/09: Narodne novine 13/09 "Pravilnik o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima." (Official Gazette 13/09: "Regulations on limit values for exposure to hazardous substances at work and on the biological limit values.")

KR (Korea, Re-public of)

PL (Poland)

8.2

EL: Exposure Limit MoEL: Ministry of Employment and Labor "Exposure limits of chemicals and physical agents"

LT (Lithuania)

RD: profesinio poveikio Ribinis Dydis (occupational exposure limit value)
HN 23:2011: HIGIENOS NORMOS HN 23:2011 "Cheminiu medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai." (Hygiene Standard HN 23:2011 "Occupational exposure limit of chemicals. Measurement and impact assessment of general requirements.")

LV(Latvia)

ER: Aroda Ekspozīcijas Robežvērtība (occupational exposure limit value)
MKN 325: Ministru kabineta noteikumi Nr.325 "Darba aizsardzības prasības saskarē ar ķīmiskajām vielām darba vietās." (Cabinet Regulation No. 325 "Labour protection requirements when coming in contact with chemical substances at workplaces.")
BSN: Baltic Sea Network on Occupational Health and Safety (http://www.balticseaosh.net/files/82.pdf)

NDSiN: Najwyższych Dopuszczalnych Stężeń i Natężeń (Naximum admissible concentrations and intensities)
MPiPS: Ministerstwo Pracy i Polityki Społecznej "Najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy." (Ministry of Labour and Social Policy "Maximum admissible concentrations and intensities for agents harmful to health in the working environment.")

PT (Portugal)

LE: Valores Limite de Exposição profissional (occupational exposure limit values)
DR - DL n.º 24/2012: Diário da República - Decreto-Lei n.º 24/2012 "Valor limite de exposição profissional obrigatório (Anexo I)",
"Valores limite de exposição profissional com carácter indicativo (Anexo III)"; (Official Gazette - Decree-Law no. 24/2012 "Binding occupational exposure limit value (Annex I)", "Indicative occupational exposure limit values (Annex III)"

RO (Romania) VLON: Valori Limită Obligatorii Nationale de expunere profesională ale agenților chimici (National mandatory limit values of occupation-

Alexposure to chemical agents)

Hotărâre nr. 1218: Cerinţelor minime de securitate şi sănătate în muncă pentru asigurarea protecţiei lucrătorilor împotriva riscurilor legate de prezenţa agenţilor chimici. (Minimum requirements of safety and health for the protection of workers from risks related to chem-

ical agents.)

RU (Russia) ДК: Предельно Допустимые Концентрации вредных веществ в воздухе рабочей зоны. (Maximum allowable concentration of

harmful substances in occupational air.) GOST 12.1.005-88: Система стандартов безопасности труда. Общие санитарно-гигиенические требования к воздуху рабочей зоны .(Occupational safety standards system. General sanitary requirements for working zone air.)

SE (Sweden)

HGV: Hygieniska GränsVärden AFS: Arbetsmiljöverkets författningssamling "Hygieniska gränsvärden" (Work Environment Authority "Occupational exposure limit val-

ues")

SI (Slovenia)

MVPI: Mejnih Vrednosti Poklicne Izpostavljenosti (occupational exposure limit values)
Ur.I. RS, št. 102/2010: Uradni list Republike Slovenije št. 102/2010 "varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu." ("Protection of workers from the risks related to exposure to chemical substances at work.")

PEL (Permissible Exposure Limits of hazardous substances in air) CLA: Council of Labor Affairs "Standards of permissible exposure limits of airborne hazardous substances in workplace." TW (Taiwan)

Appropriate engineering controls

Exposure controls

Don't use a brush or compressed air for cleaning surfaces or clothing. Regular cleaning of work area. Use a vacuum cleaner fitted with an HEPA filter.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Prevention of skin contact. Control of dust. Do not breathe dust.

For emergency responders

In case of spillage - Wear respiratory protection: Half mask with particle filters P2 (filters at least 94 % of airborne particles, colour code: White)

Dampen dust and place it in a properly closed receptacle and dispose it safely.

6.2 Environmental precautions

Knock down dust with water spray.

6.3 Methods and material for containment and cleaning up

Take up mechanically (control of dust, dampen dust). Other information relating to spills and releases: Special danger of slipping by leaking/spilling product. Ventilate affected area (Particulates and dust). No dry sweeping using a broom. Do not blow off dust deposits.

Reference to other sections

Personal protective equipment: see section 8.

Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Don't use a brush or compressed air for cleaning surfaces or clothing. Avoid the release and swirling up of dust.

Measures to protect the environment

Completely emptied packages can be recycled.

Advice on general occupational hygiene

Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

When not in use, keep containers tightly closed. Store in a dry place. Removal of dust deposits (control of dust).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Dusts, particles

Country (Identifier) - Source	TWA [mg/m³]	STEL [mg/m ³]
BG (ГСРМ) - acc. to "Наредба No 13"	10 (i) / 4 (r)	
EE (TKOP) - acc. to "VV 18. 2001. nr 293"	10 (i) / 5 (r)	
GB (WEL) - acc. to "EH40/2005"	10 (i) / 4 (r)	
HR (GVI) - acc. to "NN 13/09"	10	
KR (EL) - acc. to "MoEL"	10	
LT (RD) - acc. to "HN 23:2011"	10 (i) / 5 (r)	
LV (AER) - acc. to "BSN" (recommendation)	10	
PL (NDSiN) - acc. to "MPiPS"	10	
PT (VLE) - acc. to "DL n.º 24/2012"	10 (i) / 3 (r)	
RO (VLON) - acc. to "Hotărâre nr. 1218"	10	



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SECTION 3: Composition/information on ingredients

3.1 substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

Soda-lime glass CAS No. 65997-17-3, EINECS No. 266-046-0

SiO2 (68-75%), Na2O (12-18%), CaO (7-12%), MgO (0-5%), Al2O3 (0-2,5%)

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

Following skin contact

Rinse skin with water/shower. Do no rub affected area. Take off contaminated clothing. If skin irritation or rash occurs: get medical advice/attention.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Do no rub affected area.

Following ingestion

Rinse mouth with water (only if the person is conscious).

4.2 Most important symptoms and effects, both acute and delayed

pulmonary irritation, localised redness, pruritis, cough

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

The product itself does not burn. Combustible: Packaging materials

5.2 Special hazards arising from the substance or mixture

none

5.3 Advice for firefighters

Co-ordinate firefighting measures to the fire surroundings.

Special protective equipment for firefighters

Filtering half-face mask (EN 149), P3 (filters at least 99,95 % of airborne particles, colour code: White)



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

1.1 Product identifier

Trade name

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1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

reflective, grinding and filling beads

1.3 Details of the manufacturer/supplier of the safety data sheet

HG-Klebstoffe Furkern 15 5141 Moosdorf/Austria +43(0)664 410 0 640 office@hg-klebstoffe.at

e-mail (competent person)

1.4 Emergency telephone number +43(0)664 410 0 640

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Classification according to Directive 1999/45/EC (DPD)

This mixture does not meet the criteria for classification in accordance with Directive 1999/45/EC.

The most important adverse physicochemical, human health and environmental effects

Repeated inhalation of large amounts of dust over a long period of time increases the risk of developing lung diseases. The product enters directly through the oral or nasal cavity.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP) not required

2.3 Other hazards

Dust can cause irritation to the cornea and conjunctiva. Causes mild skin irritation. Localised redness, oedema, pruritis and/or pain. May cause respiratory irritation by the inhalation of dust.