

MATERIAL SAFETY DATA SHEET

Pursuant to Rulebook on contents of Material Safety Data Sheet "Official Gazette of the Republic of Srpska number 104/13) in line with Regulation (EC) no. 1907/2006

Page 1 of 14

Trade name:	KERAFUG C			BTL.C.45.03
Product code:	Production date:	01 April 2017	Version no:	03


SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY/ UNDERTAKING	
1.1.	Product identifier
	Trade name: Kerafug C
	Chemical name: Not applicable
	Synonyms: Not applicable
	Catalogue number: Not applicable
1.2.	Relevant identified uses of the substance or mixture and uses advised against
	Application: It is used for grouting wall and floor ceramic tiles, stone for interior and exterior use, where the joint width does not exceed 8 mm. It is also suitable for floor heating. For detailed information, see product data sheet/label.
	Applications not recommended: All other applications not listed on label or product data sheet.
	Reasons for non-application: Unsatisfactory quality of the used product (strength, water absorption, abrasion resistance, shrinking etc.)
1.3.	Details of the supplier of the safety data sheet
	Company name: Colorit d.o.o.
	Address: Blagoja Parovića 114b
	Telephone: +387(0)51/388-830
	Fax: +387(0)51/388-840
	e-mail address of the person liable for MSDS: colorit@inecco.net
	Authorized person in RS: Colorit d.o.o., Blagoja Parovića 114b, Banja Luka
1.4.	Emergency telephone number
	Emergency telephone number: 121 (before 112 gets activated)
	Telephone number for medical information: 124 (0-24h)
	Other information: +381 11 360 84 40 (Poison Control Centre Military Medical Academy Belgrade, Serbia)
SECTION 2. HAZARDS IDENTIFICATION	
2.1.	Classification of the substance or mixture
2.1.1.	CLP/GHS system classification
	Hazard class and category mark: Warning on danger (H, EUH)*:
	Skin irritation 2 H315
	Skin sensitisation 1 H317
	Serious eye damage 1 H318
	STOT SE 3 H335
2.1.2.	Additional information
	Not applicable

MATERIAL SAFETY DATA SHEET

Pursuant to Rulebook on contents of Material Safety Data Sheet "Official Gazette of the Republic of Srpska number 104/13) in line with Regulation (EC) no. 1907/2006

Page 2 of 14

Trade name:	KERAFUG C	BTL.C.45.03
Product code:	Production date: 01 April 2017	Version no: 03

*Full text H and EUH marks in Section 16				
2.2. Label elements				
	Pictogram/hazard symbol:			
	Signal word/danger sign and written warning:	Danger		
	Hazard statements (H):	H315-Causes skin irritation H317-May cause allergic skin reactions. H318-Causes serious eye damage. H335-May cause respiratory irritation.		
	Precautionary statements (P) :	P102 – Keep out of reach of children P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - IF ON SKIN: Wash with plenty of soap and water P304+P340-IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310-Immediately call a POISON CENTER or doctor/physician P333-P313-If skin irritation or rash occurs: Get medical advice/attention P501 – Dispose of contents /container in accordance with local/national/regional/international regulations		
	Supplemental hazard information:	Not applicable		
2.3. Other hazards				
Not applicable				
II SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS				
3. Information on mixture ingredients				
Name	CAS number / EC number / Index number	REACH registration number	Mass or volume % or range	CLP/GHS system classification*
Calcium carbonate	1317-65-3/ 215-279-6/ Not applicable	Excluded	55-65	Not classified hazardous
Portland cement clinker	65997-15-1/ 263-043-4/ Not applicable	Not applicable	1-35	Skin irritation 2, H315 Skin sensitization 1, H317 Serious eye damage 1, H318 STOT SE 3, H335
*Full text R, H and EUH marks in Section 16.				

MATERIAL SAFETY DATA SHEET

Pursuant to Rulebook on contents of Material Safety Data Sheet "Official Gazette of the Republic of Srpska number 104/13) in line with Regulation (EC) no. 1907/2006

Page 3 of 14

Trade name:	KERAFUG C	BTL.C.45.03
Product code:	Production date: 01 April 2017	Version no: 03

SECTION 4. FIRST AID MEASURES													
4.1.	Description of first aid measures												
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;">General:</td> <td style="padding: 5px;">Persons providing first aid do not need to wear protective equipment. They need to avoid contact with wet material.</td> </tr> <tr> <td style="padding: 5px;">After inhalation:</td> <td style="padding: 5px;">Remove the person to fresh air. Rinse the dust from the mouth and nose with water. If symptoms persist ask for medical advice/care.</td> </tr> <tr> <td style="padding: 5px;">After skin contact:</td> <td style="padding: 5px;">Rinse skin with sufficient amount of water. Wash contaminated clothing after use.</td> </tr> <tr> <td style="padding: 5px;">After eye contact:</td> <td style="padding: 5px;">Do not rub eyes to avoid mechanical eye injuries. Remove contact lenses if present. Keep eyes wide open and rinse with sufficient amount of water for about 20 minutes to remove the particles. If symptoms persist ask for medical help.</td> </tr> <tr> <td style="padding: 5px;">After swallowing:</td> <td style="padding: 5px;">Do not induce vomiting. If the person is conscious, wash out the mouth with water and then drink 1 to 2 glasses of water. If the condition does not change seek medical care.</td> </tr> <tr> <td style="padding: 5px;">Personal protection of person providing first aid:</td> <td style="padding: 5px;">No special personal protection needed for person administering first aid.</td> </tr> </table>	General:	Persons providing first aid do not need to wear protective equipment. They need to avoid contact with wet material.	After inhalation:	Remove the person to fresh air. Rinse the dust from the mouth and nose with water. If symptoms persist ask for medical advice/care.	After skin contact:	Rinse skin with sufficient amount of water. Wash contaminated clothing after use.	After eye contact:	Do not rub eyes to avoid mechanical eye injuries. Remove contact lenses if present. Keep eyes wide open and rinse with sufficient amount of water for about 20 minutes to remove the particles. If symptoms persist ask for medical help.	After swallowing:	Do not induce vomiting. If the person is conscious, wash out the mouth with water and then drink 1 to 2 glasses of water. If the condition does not change seek medical care.	Personal protection of person providing first aid:	No special personal protection needed for person administering first aid.
General:	Persons providing first aid do not need to wear protective equipment. They need to avoid contact with wet material.												
After inhalation:	Remove the person to fresh air. Rinse the dust from the mouth and nose with water. If symptoms persist ask for medical advice/care.												
After skin contact:	Rinse skin with sufficient amount of water. Wash contaminated clothing after use.												
After eye contact:	Do not rub eyes to avoid mechanical eye injuries. Remove contact lenses if present. Keep eyes wide open and rinse with sufficient amount of water for about 20 minutes to remove the particles. If symptoms persist ask for medical help.												
After swallowing:	Do not induce vomiting. If the person is conscious, wash out the mouth with water and then drink 1 to 2 glasses of water. If the condition does not change seek medical care.												
Personal protection of person providing first aid:	No special personal protection needed for person administering first aid.												
4.2.	Most important symptoms and effects, both acute and delayed												
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;">After inhalation:</td> <td style="padding: 5px;">Continuous exposure over a long period causes pulmonary diseases.</td> </tr> <tr> <td style="padding: 5px;">After skin contacts:</td> <td style="padding: 5px;">Redness, irritation, dermatitis may occur.</td> </tr> <tr> <td style="padding: 5px;">After eye contact:</td> <td style="padding: 5px;">May cause serious eye injuries.</td> </tr> <tr> <td style="padding: 5px;">After swallowing:</td> <td style="padding: 5px;">Not applicable.</td> </tr> </table>	After inhalation:	Continuous exposure over a long period causes pulmonary diseases.	After skin contacts:	Redness, irritation, dermatitis may occur.	After eye contact:	May cause serious eye injuries.	After swallowing:	Not applicable.				
After inhalation:	Continuous exposure over a long period causes pulmonary diseases.												
After skin contacts:	Redness, irritation, dermatitis may occur.												
After eye contact:	May cause serious eye injuries.												
After swallowing:	Not applicable.												
4.3.	Indication of any immediate medical attention and special treatment needed												
	Show the MSDS to a doctor if possible.												
SECTION 5. FIREFIGHTING MEASURES													
5.1.	Extinguishing media												
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;">Suitable extinguishing agents:</td> <td style="padding: 5px;">Carbon dioxide, dry powder, foam or water spray. Use extinguishing agent depending on the surrounding objects caught by fire.</td> </tr> <tr> <td style="padding: 5px;">Inappropriate extinguishing agents:</td> <td style="padding: 5px;">Not applicable</td> </tr> </table>	Suitable extinguishing agents:	Carbon dioxide, dry powder, foam or water spray. Use extinguishing agent depending on the surrounding objects caught by fire.	Inappropriate extinguishing agents:	Not applicable								
Suitable extinguishing agents:	Carbon dioxide, dry powder, foam or water spray. Use extinguishing agent depending on the surrounding objects caught by fire.												
Inappropriate extinguishing agents:	Not applicable												
5.2.	Special hazards arising from the substance or mixture												
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;">Dangerous combustion products:</td> <td style="padding: 5px;">Not known</td> </tr> </table>	Dangerous combustion products:	Not known										
Dangerous combustion products:	Not known												
5.3.	Advice for fire-fighters												
	Use breathing apparatus. Adjust the fire extinguishing equipment to fire conditions.												
SECTION 6. ACCIDENTAL RELEASE MEASURES													
6.1.	Personal precautions, protective equipment and emergency procedures												
6.1.1.	For people not trained for the accident:												
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 5px;">Protective equipment:</td> <td style="padding: 5px;">Use personal protective equipment as specified in Section 8.2</td> </tr> </table>	Protective equipment:	Use personal protective equipment as specified in Section 8.2										
Protective equipment:	Use personal protective equipment as specified in Section 8.2												

MATERIAL SAFETY DATA SHEET

Pursuant to Rulebook on contents of Material Safety Data Sheet "Official Gazette of the Republic of Srpska number 104/13) in line with Regulation (EC) no. 1907/2006

Page 4 of 14

Trade name:	KERAFUG C	BTL.C.45.03
Product code:	Production date: 01 April 2017	Version no: 03

	Accident prevention procedures:	Avoid contact with skin, eyes and clothes, just like inhalation of dust and swallowing.
	Emergency procedures:	Dry material needs to be swept up creating as little dust as possible and persons participating in the prevention should wear protective equipment.
6.1.2.	For people participating in accident response:	
	No special measures are required. Persons participating in an accident need to wear a face/eyes mask if the level of dust is increased.	
6.2.	Environmental precautions	
	Do not flush the product into sewer system, waste waters and other water courses.	
6.3.	Methods and materials for containment and cleaning up	
6.3.1.	For confinement:	Prevent dust formation. Material is to be disposed in a specific disposal container.
6.3.2.	For cleaning up:	Collect material in dry state raising as little dust as possible.
6.3.3.	Other information:	Keep the material in a dry container.
6.4.	Reference to other sections	
	Contaminated material should be disposed pursuant to Section 13. Use personal protection equipment pursuant to Section 8.	
SECTION 7. HANDLING AND STORAGE		
7.1.	Precautions for safe handling	
7.1.1.	Protective measures	
	Recommendations for safe handling:	Avoid dust formation.
	Fire prevention measures:	No special fire protection measures.
	Aerosol and dust formation preventive measures:	Not applicable
	Incompatible materials handling:	Not applicable
	Environment protective measures:	Keep the bags tightly closed in horizontal position in waterproof, dry, clean places. Prevent product from entering water courses, sewer system and drains.
7.1.2.	General hygienic measures advice:	
	Eating, drinking and smoking are prohibited while using the product. Wash hands at the end of the work shift. Take off contaminated clothing and protective equipment before entering the eating area. Keep work clothing separated from other clothes.	
7.2.	Conditions for safe storage, including any incompatibilities	
	Technical measures and storage conditions:	Dry, ventilated room protected against moisture.
	Packaging materials:	Natron bag.
	Requests for storage rooms and containers:	Protect against humidity. Containers should be kept tightly closed in horizontal position, in waterproof, dry,

MATERIAL SAFETY DATA SHEET

Pursuant to Rulebook on contents of Material Safety Data Sheet "Official Gazette of the Republic of Srpska number 104/13) in line with Regulation (EC) no. 1907/2006

Page 5 of 14

Trade name:	KERAFUG C	BTL.C.45.03
Product code:	Production date: 01 April 2017	Version no: 03

	clean rooms protected against contamination. Keep in a well-ventilated place. Prevent dust formation.
Storage class:	Not relevant
Other information on storage conditions:	Recommended temperature 5-30°C.

7.3.	Specific end use(s)
	Recommendations: No information available
	Special solutions for industrial sector: No information available

SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1.	Control parameters:
-------------	----------------------------

Substance	CAS number	Exposure limiting value (ELV/KELV)		Biological limiting values
		ppm	mg/m ³	
Portland cement clinker	65997-15-1	/	5	Not applicable

Substance:	Not applicable
------------	----------------

EU No.:	Not applicable	CAS No.:	Not applicable	Not applicable
---------	----------------	----------	----------------	----------------

DNEL

Worker

Exposure way:	Acute local effects	Acute systematic effects	Chronic local effects	Chronic systematic effects
Oral	Not applicable	Not applicable	Not applicable	Not applicable
Inhalation	Not applicable	Not applicable	Not applicable	Not applicable
Skin	Not applicable	Not applicable	Not applicable	Not applicable

Key physical parameters: melting point, flammability, corrosion:	Not applicable
------------------------------------------------------------------	----------------

User

Exposure way:	Acute local effects	Acute systematic effects	Chronic local effects	Chronic systematic effects
Oral	Not applicable	Not applicable	Not applicable	Not applicable
Inhalation	Not applicable	Not applicable	Not applicable	Not applicable
Skin	Not applicable	Not applicable	Not applicable	Not applicable

PNEC

Environment segment	PNEC
---------------------	------

MATERIAL SAFETY DATA SHEET

Pursuant to Rulebook on contents of Material Safety Data Sheet "Official Gazette of the Republic of Srpska number 104/13) in line with Regulation (EC) no. 1907/2006

Page 6 of 14

Trade name:	KERAFUG C	BTL.C.45.03
Product code:	Production date: 01 April 2017	Version no: 03

Fresh water	Not applicable
Fresh water sediments	Not applicable
Sea water	Not applicable
Sea sediments	Not applicable
Food chain	Not applicable
Microorganisms in waste water treatment	Not applicable
Land (agricultural)	Not applicable
Air	Not applicable

8.2.	Exposure controls	
8.2.1.	Appropriate technical control	
	Exposure control measures in identified application:	Use spaces with ventilation or ventilated rooms because of dust formation.
	Structural measures for exposure prevention:	Apply instructions from Section 7.
	Organizational measures for exposure prevention:	Remove contaminated clothing and shoes immediately after end of work.
	Technical measures for exposure prevention:	Apply instructions from Section 7.
8.2.2.	Personal protective equipment	
8.2.2.1	Eyes and face protection:	Protective goggles that fit face/eyes well (BAS EN 166).
8.2.2.2	Skin protection	
	Hands protection:	Protective gloves made of alkali proof material (BAS EN 374).
	Protection of other body parts:	Protective long-sleeved working clothes (BAS EN 340) and appropriate closed footwear (BAS EN 13832). Make sure that wet material does not enter shoes.
8.2.2.3	Protection of breathing parts:	It is not necessary in case of adequate ventilation. In case of insufficient ventilation or creation of dust, wear protective filter half-mask for protection from particles.
8.2.2.4	Protection from thermal hazards:	Not applicable
8.2.3.	Environment exposure control	
	Preventive measures for substance/mixture exposure:	Pursuant to Section 6.
	Structural measures for exposure prevention:	Pursuant to Section 6.
	Organizational measures for exposure prevention:	Pursuant to Section 6.
	Technical measures for exposure prevention:	Pursuant to Section 6.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1.	Information on basic physical and chemical properties		
		Value	Method

MATERIAL SAFETY DATA SHEET

Pursuant to Rulebook on contents of Material Safety Data Sheet "Official Gazette of the Republic of Srpska number 104/13) in line with Regulation (EC) no. 1907/2006

Page 7 of 14

Trade name:	KERAFUG C	BTL.C.45.03
Product code:	Production date: 01 April 2017	Version no: 03

Form:	Solid	Not applicable
Colour:	White	Not applicable
Odour:	Characteristic	Not applicable
Odour threshold:	Not applicable	Not applicable
pH:	Not applicable	Not applicable
Melting point/Freezing point:	Not applicable	Not applicable
Ignition boiling point and boiling range:	Not applicable	Not applicable
Ignition point:	Not applicable	Not applicable
Evaporation rate:	Not applicable	Not applicable
Flammability (solid, gas):	Not applicable	Not applicable
Upper/lower flammability or explosion limit:	Not applicable	Not applicable
Vapour pressure:	Not applicable	Not applicable
Vapour density:	Not applicable	Not applicable
Relative density:	Not applicable	Not applicable
Pouring density:	Not applicable	Not applicable
Solubility:	Not applicable	Not applicable
Partition coefficient: n-octanol /water (log Pow):	Not applicable	Not applicable
Self-ignition temperature:	Not applicable	Not applicable
Decomposition temperature:	Not applicable	Not applicable
Viscosity:	Not applicable	Not applicable
Explosion features:	Not applicable	Not applicable
Oxidizing features:	Not applicable	Not applicable

9.2.	Other information	
	Tensile strength after drying:	7 N/mm ² EN 12808-3:2008
	Compression strength after drying:	27.3±0.4 N/mm ² EN 12808-3:2008
	Water absorption after 30 min:	0.2 g EN 12808-5:2008
	Shrinking:	0.3 mm EN 12808-3:2008
	Abrasion resistance:	800 mm ³ EN 12808-3:2008

SECTION 10. STABILITY AND REACTIVITY		
10.1.	Reactivity:	Not applicable
10.2.	Chemical stability:	Stable under normal conditions. In case of contact with water, creates solid mass that is stable under normal conditions.
10.3.	Possibility of hazardous reactions:	Not applicable

MATERIAL SAFETY DATA SHEET

Pursuant to Rulebook on contents of Material Safety Data Sheet "Official Gazette of the Republic of Srpska number 104/13) in line with Regulation (EC) no. 1907/2006

Page 9 of 14

Trade name:	KERAFUG C			BTL.C.45.03
Product code:	Production date:	01 April 2017	Version no:	03

Sub-chronic to mouth	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Sub-chronic on skin	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Sub-chronic inhalation	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Chronic to mouth	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Chronic on skin	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Chronic inhalation	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Specific toxicity for organ target – single exposure (STOT SE):						
	Specific effects		Exposed organ		Note	
Swallowing:	Not applicable		Not applicable		Not applicable	
Skin contact:	Not applicable		Not applicable		Not applicable	
Inhalation:	Not applicable		Not applicable		Not applicable	
Specific toxicity for organ target – repeated exposure (STOT RE):						
	Specific effects		Exposed organ		Note	
Sub-acute to mouth	Not applicable		Not applicable		Not applicable	
Sub-acute on skin	Not applicable		Not applicable		Not applicable	
Sub-acute inhalation	Not applicable		Not applicable		Not applicable	
Sub-chronic to mouth	Not applicable		Not applicable		Not applicable	
Sub-chronic on skin	Not applicable		Not applicable		Not applicable	
Sub-chronic inhalation	Not applicable		Not applicable		Not applicable	
Chronic to mouth	Not applicable		Not applicable		Not applicable	
Chronic on skin	Not applicable		Not applicable		Not applicable	
Chronic inhalation	Not applicable		Not applicable		Not applicable	
Aspiration hazards:		Not applicable				
Probable exposure ways:		Not applicable				
Symptoms referring to physical, chemical and toxic features						
Swallowing:		Nausea, stomach pain.				
Skin contact:		Allergic reaction may occur.				
Inhalation:		Difficulty breathing.				
Eye contact:		Serious eye damage may occur.				
Delayed current effects, as well as chronic effects due to short and extended exposure:		Not applicable				
Interaction effects:		Not applicable				

MATERIAL SAFETY DATA SHEET

Pursuant to Rulebook on contents of Material Safety Data Sheet "Official Gazette of the Republic of Srpska number 104/13) in line with Regulation (EC) no. 1907/2006

Page 10 of 14

Trade name:	KERAFUG C	BTL.C.45.03
Product code:	Production date: 01 April 2017	Version no: 03

Lack of certain information:	Not applicable
Information on mixture in the reference to its ingredients information:	Not applicable
Other information:	Not applicable

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Acute toxicity	Dose	Exposure time	Organism	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Not applicable	Not applicable	Not applicable	Not applicable
Crabs (Daphnia)	EC ₅₀	48 hours	Not applicable	Not applicable	Not applicable	Not applicable
Algae/water plants	IC ₅₀	72 hours	Not applicable	Not applicable	Not applicable	Not applicable
Other organisms	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Chronic toxicity	Dose	Exposure time	Organism	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Not applicable	Not applicable	Not applicable	Not applicable
Crabs (Daphnia)	EC ₅₀	48 hours	Not applicable	Not applicable	Not applicable	Not applicable
Algae/water plants	IC ₅₀	72 hours	Not applicable	Not applicable	Not applicable	Not applicable
Other organisms	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

12.2. Persistence and degradability

Abiotic degradability					
	Half-degradability time	Method	Evaluation	Note	
Sea water	Not applicable	Not applicable	Not applicable	Not applicable	
Fresh water	Not applicable	Not applicable	Not applicable	Not applicable	
Air	Not applicable	Not applicable	Not applicable	Not applicable	
Soil	Not applicable	Not applicable	Not applicable	Not applicable	
Physical and photo-chemical elimination					
Not applicable					
Biodegradability					
% degradation	Time (days)	Method	Evaluation	Note	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	

MATERIAL SAFETY DATA SHEET

Pursuant to Rulebook on contents of Material Safety Data Sheet "Official Gazette of the Republic of Srpska number 104/13) in line with Regulation (EC) no. 1907/2006

Page 11 of 14

Trade name:	KERAFUG C	BTL.C.45.03
Product code:	Production date: 01 April 2017	Version no: 03

12.3. Bioaccumulative potential:							
Partition coefficient: n-octanol/water (log Pow)							
Value	Concentration	pH	°C	Method	Evaluation	Note	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Bioconcentration factor (BCF)							
Value	Organism	Method		Evaluation	Note		
Not applicable	Not applicable	Not applicable		Not applicable	Not applicable		
Chronic eco-toxicity							
Value	Dose	Exposure time	Organism	Method	Evaluation	Note	
Chronic toxicity in fish	LC ₅₀	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Chronic toxicity in crabs (Daphnia)	EC ₅₀	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
12.4. Mobility in soil							
Known or anticipated partition in environment:							
Not applicable							
Surface pressure:							
Value	°C	Concentration	Method		Note		
Not applicable	Not applicable	Not applicable	Not applicable		Not applicable		
Adsorption/desorption							
Transport	A/D coefficient Henry's constant		log Pow	Evaporation	Method	Note	
soil-water	Not applicable		Not applicable	Not applicable	Not applicable	Not applicable	
Water-air	Not applicable		Not applicable	Not applicable	Not applicable	Not applicable	
Soil-air	Not applicable		Not applicable	Not applicable	Not applicable	Not applicable	
12.5. Results of PBT and vPvB assessment							
This product does not contain substances that are considered as very persistent or very bioaccumulative.							
12.6. Other adverse effects							
Not applicable							
SECTION 13. DISPOSAL CONSIDERATIONS							
13.1. Waste treatment methods							
13.1.1. Disposal of unused chemical/contaminated packaging:							

MATERIAL SAFETY DATA SHEET

Pursuant to Rulebook on contents of Material Safety Data Sheet "Official Gazette of the Republic of Srpska number 104/13) in line with Regulation (EC) no. 1907/2006

Page 12 of 14

Trade name:	KERAFUG C	BTL.C.45.03
Product code:	Production date: 01 April 2017	Version no: 03

	Dispose as construction waste in line with local, national, regional and international regulations.
13.1.2.	Waste labelling according to waste catalogue: 17 09 04 : mixed waste from construction and demolition other than those listed in 17 09 01, 17 09 02 and 17 09 03 Packaging residues: 15 01 01 (paper and cardboard packaging) 15 01 02 (plastic packaging)
13.1.3.	Waste treatment forms: Not applicable
13.1.4.	Possibility of disposal to sewage: Do not dispose to sewage system.
13.1.5.	Other recommendations for disposal: Not applicable
13.1.6.	Regulations for waste management: Law on waste management ("Official Gazette of the Republic of Srpska", number 111/13 and 106/15), Rulebook on waste categories, testing and classification ("Official Gazette of Republic of Srpska", no. 19/15).

SECTION 14. TRANSPORT INFORMATION

Road transport (ADR)	
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class:	Goods not hazardous based on this regulation
Packaging group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	Not applicable
Railway transport (RID)	
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class:	Goods not hazardous based on this regulation
Packaging group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	Not applicable
Inland waterways transport (ADN)	
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class:	Goods not hazardous based on this regulation

MATERIAL SAFETY DATA SHEET

Pursuant to Rulebook on contents of Material Safety Data Sheet "Official Gazette of the Republic of Srpska number 104/13) in line with Regulation (EC) no. 1907/2006

Page 13 of 14

Trade name:	KERAFUG C			BTL.C.45.03
Product code:	Production date:	01 April 2017	Version no:	03

Packaging group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	Not applicable

Seaways transport (IMDG)

UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class:	Goods not hazardous based on this regulation
Packaging group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	Not applicable
Transport in loose state (MARPOL73/78 and IBC code):	Not applicable

Airways transport (ICAO-TI/IATA-DGR)

UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class:	Goods not hazardous based on this regulation
Packaging group:	Not applicable
Special precautions for user:	Not applicable

Additional information:	Not applicable
-------------------------	----------------

SECTION 15. REGULATORY INFORMATION

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

Applicable regulations in the Republic of Srpska:	Law on chemicals (RS Off. Gaz. no. 25/09), Rulebook on classification, packaging and labelling of chemicals and certain products (RS Off. Gaz. no.50/10), Rulebook on contents of the Material Safety Data Sheet (RS Off. Gaz. no. 104/13), Law on waste management (RS Off. Gaz. no. 111/13 and 106/15), Rulebook on waste categories, testing and classification (RS Off. Gaz. no. 19/15).
---------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Authorization and/or limitations in application	
-------------------------------------------------	--

Authorizations:	Not applicable
-----------------	----------------

Limitations:	Not applicable
--------------	----------------

Substance causing concern:	Product does not contain substances causing concern.
----------------------------	------------------------------------------------------

Other applicable regulations	Not applicable
------------------------------	----------------

Information on emissions of volatile organic compounds (VOC):	Not relevant
---------------------------------------------------------------	--------------

15.2.	Chemical safety assessment	Chemical safety assessment not performed.
-------	----------------------------	-------------------------------------------

SECTION 16. OTHER INFORMATION

MATERIAL SAFETY DATA SHEET

Pursuant to Rulebook on contents of Material Safety Data Sheet "Official Gazette of the Republic of Srpska number 104/13) in line with Regulation (EC) no. 1907/2006

Page 14 of 14

Trade name:	KERAFUG C	BTL.C.45.03
Product code:	Production date: 01 April 2017	Version no: 03

Changes report:	Changes in comparison with the previous version.		
Abbreviations and acronyms:	Not applicable		
Basic literature and information sources:	Material Safety Data Sheet of raw materials, European Chemicals Agency, Report on product testing in an accredited laboratory		
Classification and procedures used for classification of mixture according to CLP/GHS system			
Classification according to CLP/GHS system	Classification procedure		
Skin irritation 2 Skin sensitisation 1 Serious eye damage 1 STOT SE 3	Classification procedure pursuant to procedures described in the Rulebook on classification, packaging and labelling of chemicals and certain products (RS Off. Gaz. no.50/10)		
Relevant H and P signs (number and full text)			
H	315	Causes skin irritation.	
H	317	May cause allergic skin reaction.	
H	318	Causes serious eye damage.	
H	335	May cause respiratory irritation.	
P	102	Keep out of reach of children.	
P	280	Wear protective gloves/protective clothing/eye protection/face protection	
P	302+352	IN CASE OF SKIN CONTACT: wash with water and soap abundant.	
P	304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P	305+351 +338	IN CASE OF EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P	310	Immediately call a poison centre or doctor/physician.	
P	333+313	If skin irritation or rash occurs: Get medical advice/attention.	
P	501	Dispose of contents /container in accordance with local/ national/ regional/international regulations	
Advice for training:	Not applicable		
Additional information:	<p>Information provided in this MSDS is a result of our best current knowledge. This information should serve as guidance in manipulation, use, storage, transport and disposal, hence it should not be considered as quality guarantee. Information refers to this product only and may not be used for combination with other materials and processes unless otherwise specified in the text.</p> <p>It is product user's responsibility to obey local legislation.</p> <p>Product toned in the shade according to the Colorit tone card (ivory, yellow, apricot, brick red, pale brown, dark brown, lime, kiwi, sky blue, violet, magnetite, pale grey, grey, graphite) has the same classification under the GHS/CLP classification and labelling.</p>		