

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

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Trade name:	MRAMORFIX	BTL.C.30.02
Product code:	Production date: April 4, 2016	Version no: 02

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1.	Product identifier	
II	Trade name:	Mramorfix
	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 flexible glue used for gluing marble, granite, stone, ceramic tiles etc. in interior and exterior conditions of exploitation. 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:	Insufficient quality of used product.
1.3.	Details of 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 Center Military Medical Academy Belgrade, Serbia)
SECTION 2. HAZARD 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 irrit. 2	H315
	Skin sens. 1	H317
	Eye dam. 1	H318
	STOT SE 3	H335
2.1.2.	DSD/DPD system classification	
	Danger sign:	Risk sign (R)*:

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	Xi	R37/38, R41, R43
2.1.3.	Additional information	
	Not applicable	
*Full text R, H and EUH marks in Section 16.		
2.2.	Label elements	
	Labeling in line with:	CLP/GHS system <input checked="" type="checkbox"/> DSD/DPD system <input type="checkbox"/>
	Pictogram / hazard symbol:	
	Signal word / danger sign and written warning:	Danger
	Hazard statements (H) / Risk sign (R):	H315 – Causes skin irritation. H317 – May cause an allergic skin reaction. H318 – Causes serious eye damage. H335 – May cause respiratory irritation.
	Precautionary statements (P) / Safety sign (S):	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	
	Product reacts alkali in contact with water.	

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	DSD system classification*	CLP/GHS system classification*

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Quartz sand	Not applicable	Excluded	45-55	Not classified	Not classified
Portland cement clinker	65997-15-1/ 266-043-4/ Not applicable	Excluded	20-30	Xi; R37/38,R41,R43	Skin irrit. 2, H315 Skin sens. 1, H317 Eye dam. 1, H318 STOT SE 3, H335

* Full text R, H and EUH marks in Section 16.

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General:	Avoid contact with wet product.
After inhalation:	Take person out on fresh air and keep it calm. If symptoms persist, ask for medical help.
After skin contact:	Remove remaining product from skin if any and rinse with a lot of water.
After eye contact:	Do not scrub eyes to avoid eye damage. Remove contact lenses if any, rinse eyes with plenty water thoroughly for at least 20 minutes.
After swallowing:	Do not induce vomiting. Rinse mouth with plenty water let person drink plenty water. Ask immediate medical help.
Personal protection of person providing first aid:	No personal protection necessary for the person providing help.

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

After inhalation:	Chronic inhalation for longer period could cause lung disease.
After skin contacts:	Possible skin irritation.
After ye contact:	Could cause severe eye damages.
After swallowing:	Not applicable.

4.3. Indication of any immediate medical attention and special treatment needed

Take Material safety data sheet with you.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing agents:	Carbon-dioxide, extinguishing powder, foam or water spray. Use agents depending on surrounding subjects caught by fire.
Inappropriate extinguishing agents:	Not applicable

5.2. Special hazards arising from the substance or mixture

Dangerous combustion products:	Not known
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5.3. Advice for firefighters

Use breathing mask in case of unknown combustion products occurrence.

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SECTION 6. ACCIDENTAL RELEASE MEASURES		
6.1.	Personal precautions, protective equipment and emergency procedures	
6.1.1.	For people not trained for the accident:	
	Protective equipment:	Protective equipment as in Section 8.
	Accident prevention procedures:	Follow instructions in Section 7.
	Emergency procedures:	Not applicable.
6.1.2.	For people participating in accident response:	
	Not applicable	
6.2.	Environmental precautions	
	Do not allow to enter sewerage, manholes and other water courses.	
6.3.	Methods and materials for containment and cleaning up	
6.3.1.	For confinement:	Collect product in dry form mechanically if possible.
6.3.2.	For cleaning up:	
6.3.3.	Other information:	Avoid inhalation and skin contact.
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:	Pursuant to Section 8
	Fire prevention measures:	Not applicable.
	Aerosol and dust formation preventive measures:	Do not sweep or brush. Vacuum cleaning to avoid product dust.
	Incompatible materials handling:	Not applicable.
	Environment protective measures:	Not applicable.
7.1.2.	General hygienic measures advice:	
	Do not keep close to food and drinks. If dust is present during work, use dust mask and protective goggles. Use gloves to avoid skin contact.	
7.2.	Conditions for safe storage, including any incompatibilities	
	Technical measures and storage conditions:	Dry, ventilated room protected from humidity.
	Packaging materials:	Natron paper bag.
	Requests for storage rooms and containers:	Keep bags firmly closed in horizontal position in waterproof, dry and rooms safe from contamination. Keep in ventilated room. Prevent dust creation.
	Storage class:	Not relevant

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Other information on storage conditions:	Keep away from children. Recommended temperature 5-30°C. Ensure good ventilation.
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7.3.	Specific and use(s)	
	Recommendations:	Not applicable.
	Special solutions for industrial sector:	Not applicable.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1.	Control parameters:	
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Substance	CAS number	Exposure limiting value (ELV/KELV)		Biological limiting values
		ppm	mg/m ³	
Portland cement dust	from raw material manufacturer's MSDS	Not applicable	5 (E) (OEL total inhalable dust)	Not applicable

Substance:	Not applicable for substance in Section 3.
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EC no.:	Not applicable	CAS no.:	Not applicable	Not applicable
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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	DNEL (8h): 3 mg/m ³			
Skin	Not applicable	Not applicable	Not applicable	Not applicable

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

PNEC

Environment segment	PNEC
Fresh water	Not applicable
Fresh water sediments	Not applicable
Sea water	Not applicable
Sea sediments	Not applicable

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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:	Avoid kneeling in on wet spilt product. If necessary, wear personal protective equipment as in Section 8. Do not smoke, drink or eat during work in order to avoid skin or mouth contact. After work, remove contaminated clothes and footwear, clean it thoroughly and take a shower.
	Structural measures for exposure prevention:	Not applicable.
	Organizational measures for exposure prevention:	Not applicable.
	Technical measures for exposure prevention:	Not applicable.
8.2.2.	Personal protective equipment	
8.2.2.1	Eyes and face protection:	Wear protective goggles.
8.2.2.2	Skin protection:	
	Hands protection:	Protective gloves made of alkali proof material.
	Protection of other body parts:	In case kneeling is necessary for application of product, use protective waterproof trousers and protection for knees.
8.2.2.3	Protection of breathing parts:	People possibly exposed to dust by product should have protective equipment for breathing.
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.
	Exposure control measures in identified application:	Pursuant to Section 6.
	Structural measures for exposure prevention:	Pursuant to Section 6.
	Organizational 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
	Form:	Solid (powder)	Not applicable

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Color:	White-Light grey	Not applicable
Odor:	Odourless	Not applicable
Odor threshold:	Not applicable	Not applicable
pH:	11.5-13.5 (mixed)	BDS EN ISO 787-9
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
Vapor pressure:	Not applicable	Not applicable
Vapor density:	Not applicable	Not applicable
Relative density:	Not applicable	Not applicable
Pouring density:	1.2 – 1.45 g/cm ³	BDS EN ISO 2811-1
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
Explosion features:	Not applicable	Not applicable
Oxidizing features:	Not applicable	Not applicable

9.2.	Other information	
	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

10.1.	Reactivity:	Not applicable
10.2.	Chemical stability:	Stabile under normal conditions. In case of contact with water, creates solid mass stabile in normal conditions.
10.3.	Possibility of hazardous reactions:	Not applicable
10.4.	Conditions to avoid:	Temperatures under 5 and over 30 °C as well as wet storages.
10.5.	Incompatible materials:	Not applicable
10.6.	Hazardous decomposition products:	Not applicable

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Sub-acute inhalation	Not applicable					
Sub-chronic to mouth	Not applicable					
Sub-chronic on skin	Not applicable					
Sub-chronic inhalation	Not applicable					
Chronic to mouth	Not applicable					
Chronic on skin	Not applicable					
Chronic inhalation	Not applicable					

Specific toxicity for organ target – single exposure (STOT SE):

	Specific effects	Exposed organ	Note
Swallowing:	Possible throat irritation and respiratory parts. Possible cough, sneeze and short breath due to exposure to product.	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	Possible contact dermatitis	Not applicable	Not applicable
Sub-acute inhalation	Possible chronic obstructive pulmonary disease (COPD)	Not applicable	Not applicable
Sub-chronic to mouth	Not applicable	Not applicable	Not applicable
Sub-chronic on skin	Possible contact dermatitis	Not applicable	Not applicable
Sub-chronic inhalation*	Possible chronic obstructive pulmonary disease (COPD)	Not applicable	Not applicable
Chronic to mouth	Not applicable	Not	Not applicable

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		applicable	
Chronic on skin*	Possible contact dermatitis	Not applicable	Not applicable
Chronic inhalation*	Possible chronic obstructive pulmonary disease (COPD)	Not applicable	Not applicable
Aspiration hazards:		No danger since it is not used as aerosol	
Probable exposure ways:		Not applicable	
Symptoms referring to physical, chemical and toxic features			
	Swallowing:	Not applicable	
	Skin contact:	Not applicable	
	Inhalation:	Not applicable	
	Eye contact:	Not applicable	
Delayed current effects, as well as chronic effects due to short and extended exposure:			Not applicable
Interaction effects:			Not applicable
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	Product not hazardous for environment. Based on manufacturer's Portland cement MSDS, ecological information for <i>Daphnia magna</i> and <i>Selenastum coli</i> , showed small toxicity affect, and LD50 and EC50 values could not have been defined.
Crabs (Daphnia)	EC ₅₀	48 hours	Not applicable	Not applicable	Not applicable	
Algae/water plants	IC ₅₀	72 hours	Not applicable	Not applicable	Not applicable	
Other organisms			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	Product not hazardous for environment
Crabs (Daphnia)	EC ₅₀	48 hours	Not applicable	Not applicable	Not applicable	
Algae/water plants	IC ₅₀	72 hours	Not applicable	Not applicable	Not applicable	

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Other organisms			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 relevant since this is inorganic material. After hardening, product does not have any toxic risk.		
Fresh water	Not applicable	Not applicable	Not applicable			
Air	Not applicable	Not applicable	Not applicable			
Soil	Not applicable	Not applicable	Not applicable			
Physical and photo-chemical elimination						
Not relevant since this is inorganic material. After hardening, product does not have any toxic risk.						
Biodegradability:						
% degradation	Time (days)	Method	Evaluation	Note		
Not applicable	Not applicable	Not applicable	Not applicable	Not relevant since this is inorganic material. After hardening, product does not have any toxic risk.		
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 relevant since this is inorganic material. After hardening, product does not have any toxic risk.						

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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
	Not relevant since this is inorganic material. After hardening, product does not have any toxic risk.
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: Disposal should be in line with official local and national regulations.
13.1.2.	Waste labeling according to waste catalogue: Material residues: 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)
13.1.3.	Waste treatment forms: Not applicable
13.1.4.	Possibility of disposal to sewage: Do not dispose to sewage, waste waters and water courses etc.
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, tests and classification ("Official Gazette of the Republic of Srpska", no. 19/15).

SECTION 14. TRANSPORT INFORMATION

Road transport (ADR)	
UN number:	Goods not hazardous based on this regulation
UN proper shipping name:	Not applicable
Transport hazard class:	Not applicable
Packaging group:	Not applicable

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Environmental hazards:	Not applicable	
Special precautions for user:	Not applicable	
Railway transport (RID)		
UN number:	Goods not hazardous based on this regulation	
UN proper shipping name:	Not applicable	
Transport hazard class:	Not applicable	
Packaging group:	Not applicable	
Environmental hazards:	Not applicable	
Special precautions for user:	Not applicable	
Inland waterways transport (ADN)		
UN number:	Goods not hazardous based on this regulation	
UN proper shipping name:	Not applicable	
Transport hazard class:	Not applicable	
Packaging group:	Not applicable	
Environmental hazards:	Not applicable	
Special precautions for user:	Not applicable	
Seaways transport (IMDG)		
UN number:	Goods not hazardous based on this regulation	
UN proper shipping name:	Not applicable	
Transport hazard class:	Not applicable	
Packaging group:	Not applicable	
Environmental hazards:	Not applicable	
Special precautions for user:	Not applicable	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code):	Not applicable	
Airways transport (ICAO-TI/IATA-DGR)		
UN number:	Goods not hazardous based on this regulation	
UN proper shipping name:	Not applicable	
Transport hazard class:	Not applicable	
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 labeling of chemicals and	

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		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, tests 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		
Changes report:	Changes in comparison to previous version.	
Abbreviations and acronyms:	Not applicable	
Basic literature and information sources:	Material Safety Data Sheet of raw materials, European Chemicals Agency.	
Classification and procedures used for classification of mixture according to CLP/GHS system		
Classification according to CLP/GHS system		Classification procedure
Skin irrit. 2 Skin sens. 1 Eye dam. 1 STOT SE 3		Classification procedure pursuant to procedures described in the Rulebook on classification, packaging and labeling of chemicals and certain products (RS Off. Gaz. no.50/10)
Relevant R, H, S and P signs (number and full text)		
R	37/38	Irritating to respiratory system and skin
R	43	May cause sensitisation by skin contact
R	41	Risk of serious damage to eyes
R	43	May cause sensitisation by skin contact
H	315	Causes skin irritation
H	317	May cause an allergic skin reaction.
H	318	Causes serious eye damage
H	319	Causes serious eye irritation.
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

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P	302+352	IF ON SKIN: Wash with plenty of soap and water
P	304+P340	IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
P	305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P	310	Immediately call a POISON CENTER or doctor/physician
P	333+P313	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:		Information provided in this MSDS is a result of our best current knowledge. This information should serve as guidance in application, use, storage, transport and disposal hence should not be considered as quality guarantee. Information refers to this product only and could not be used in combination with other materials and processes unless otherwise specified in the text. It is product user's responsibility to obey local legislative.