

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:	PODLOGA KVARC		BTL.C.51.03
Product code:	Production date:	03 April 2017	Version no: 03

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY/ UNDERTAKING	
1.1.	Product identifier
	Trade name: Podloga kvarc
	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 as the main, base coat for smooth concrete surfaces, before the application of façade materials. 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: Poor quality of coating in the sense of covering power, workability, nuance 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: Product not classified as hazardous.
	Warning on danger (H, EUH)*: EUH208
2.1.2.	Additional information
	Not applicable
*Full text H and EUH marks in Section 16	
2.2.	Label elements
	Pictogram/hazard symbol: Product not classified as hazardous.
	Signal word/danger sign: Product not classified as hazardous.

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	and written warning:
Hazard statements (H):	Product not classified as hazardous.
Precautionary statements (P):	P102 – Keep out of reach of children P280 - Wear protective gloves/protective clothing/eye protection/face protection P501 – Dispose of contents /container in accordance with local/national/regional/international regulations
Supplemental hazard information:	EUH208- Contains mixture of 5-chloro-2-methyl-2H-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (EC: mixture; CAS: 55965-84-9). May cause allergic reaction.

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*
Water	7732-18-5/ 231-791-2/ not applicable	Excluded	30-40	Not classified as hazardous
Calcium carbonate	471-34-1/ 207-439-9// Not applicable	Excluded	15-20	Not classified as hazardous
Mixture of 5-chloro-2-methyl-2H-isothiazolin-3-one (CAS 26172-55-4) and 2-methyl-2H-isothiazol-3-one (CAS 2682-20-4)	55965-84-9/ mixture/ 613-167-00-5	Not applicable	0.00087	Acute toxicity 3, H301 Acute toxicity 3, H311 Acute toxicity 3, H331 Skin corrosion 1B, H314 Skin sensitization 1, H317 Aquatic acute 1, H400 Aquatic chronic 1, H410 M-factor 10

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

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General:	Not applicable
After inhalation:	Take person out on fresh air. Keep the affected person warm and at rest until the symptoms disappear. Seek urgent medical assistance if breathing is difficult.
After skin contact:	Remove contaminated clothing. Rinse any exposed skin parts with soap and water. In case irritation persists, seek medical advice.

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	After eye contact:	Remove eyeglasses or contact lenses. Rinse eyes thoroughly with water or eye rinsing solution, for at least 15 minutes. If irritation persists, seek medical advice
	After swallowing:	Rinse mouth cavity with water. Do not induce vomiting. In case of intake of large amount, seek medical advice.
	Personal protection of person providing first aid:	No special personal protection is required for the person providing first aid.
4.2. Most important symptoms and effects, both acute and delayed		
	After inhalation:	Not applicable.
	After skin contacts:	Irritation
	After eye contact:	Irritation
	After swallowing:	Not applicable.
4.3. Indication of any immediate medical attention and special treatment needed		
Not applicable.		
SECTION 5. FIREFIGHTING MEASURES		
5.1. Extinguishing media		
	Suitable extinguishing agents:	Carbon dioxide, dry powder, foam or water spray. Use the agent depending on the surrounding objects caught by fire.
	Inappropriate extinguishing agents:	Not applicable
5.2. Special hazards arising from the substance or mixture		
	Dangerous combustion products:	Not known.
5.3. Advice for fire-fighters		
Use breathing mask in case of appearance of unknown products of combustion.		
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:	Respiratory protective equipment – filter half-masks for protection against particles, personal eye protection, impermeable protective gloves, work clothing.
	Accident prevention procedures:	Follow instructions from section 7.
	Emergency procedures:	Not applicable.
6.1.2. For people participating in accident response:		
Not applicable.		
6.2. Environmental precautions		
Product is not classified as environmentally hazardous		
6.3. Methods and materials for containment and cleaning up		
	6.3.1. For confinement:	Sweep or vacuum clean.
	6.3.2. For cleaning up:	Collect spill with inert absorbent material (for instance clay, diatomaceous earth) as soon as possible

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6.3.3.	Other information:	Store waste in appropriate disposal containers, applying the prescribed procedure and in an approved disposal site.
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6.4.	Reference to other sections	Contaminated material should be disposed pursuant to Section 13. Use personal protection equipment pursuant to Section 8.
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SECTION 7. HANDLING AND STORAGE

7.1.	Precautions for safe handling	
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7.1.1.	Protective measures	
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	Recommendations for safe handling:	Wear adequate protective equipment (Sub-section 6.1). Avoid skin and eyes contact. Do not swallow. Do not smoke in the vicinity and avoid open flame.
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	Fire prevention measures:	Not applicable
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	Aerosol and dust formation preventive measures:	Not applicable
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	Incompatible materials handling:	Not applicable
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	Environment protective measures:	Not applicable
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7.1.2.	General hygienic measures advice:	
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	Regular hand washing routine. Do not smoke in the vicinity and avoid open flame. Maintain adequate ventilation in work space.
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7.2.	Conditions for safe storage, including any incompatibilities	
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	Technical measures and storage conditions:	Keep in well closed containers, far from sources of heat and direct solar radiation. Protect against extreme temperatures.
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	Packaging materials:	PP (polypropylene)
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	Requests for storage rooms and containers:	Not applicable
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	Storage class:	Not applicable
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	Other information on storage conditions:	Dry room. Recommended temperature 5-25°C. Do not allow to freeze.
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7.3.	Specific end use(s)	
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	Recommendations:	Not applicable
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	Special solutions for industrial sector:	Not applicable
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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	
No information available for substances from Section 3.	Not applicable	Not applicable	Not applicable	Not applicable

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Substance:	No information available for substances from Section 3.
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EU No.:	Not applicable	CAS number:	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	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
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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	Not applicable
Skin	Not applicable	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
Food chain	Not applicable
Microorganisms in waste water treatment	Not applicable
Land (agricultural)	Not applicable
Air	Not applicable

8.2. Exposure control

8.2.1. Appropriate technical control

Exposure control measures in identified application:	Do not eat, drink and smoke during work with the product.
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	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:	Use protective goggles.
8.2.2.2	Skin protection	
	Hands protection:	Use protective gloves
	Protection of other body parts:	Not applicable
8.2.2.3.	Protection of breathing parts:	Not applicable
8.2.2.4.	Protection from thermal hazards:	Not applicable
8.2.3.	Environment exposure control	
	Preventive measures for substance/mixture exposure:	Product is not environmentally hazardous.
	Structural measures for exposure prevention:	
	Organizational measures for exposure prevention:	
	Technical measures for exposure prevention:	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1.	Information on basic physical and chemical properties		
		Value	Method
	Form:	Liquid	Not applicable
	Colour:	White to beige	Not applicable
	Odour:	Odourless	Not applicable
	Odour threshold:	Not applicable	Not applicable
	pH:	9.1	BDS EN ISO 787-9:1999
	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:	1.405 g/cm ³	BDS EN ISO 2811-1:2011

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Pouring density:	Not applicable	Not applicable
Solvability	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:	14750 mPa.s	BDS EN ISO 2555:2003 (Brookfield test method)
Explosion features:	Not applicable	Not applicable
Oxidizing features:	Not applicable	Not applicable

9.2.	Other information		
	Size of particles:	<1500 µm	BDS EN ISO 1524-2:2013
	Water absorption:	0.43 kg/m ² h ^{0.5}	BDS EN 1062-3:2008
	Content of non-volatile substances:	21.44 %	BDS EN ISO 3251:2008
	Adhesion strength:	1.85 N/mm ²	BDS EN ISO 4624:2004

SECTION 10. STABILITY AND REACTIVITY

10.1.	Reactivity:	No available information
10.2.	Chemical stability:	Stable under recommended storage conditions.
10.3.	Possibility of hazardous reactions:	Not known
10.4.	Conditions to avoid:	Temperatures under +5°C and above +25°C.
10.5.	Incompatible materials:	No available information
10.6.	Hazardous disintegration products:	No available information

SECTION 11. TOXICOLOGICAL INFORMATION

11.1.	Information on toxicological effects					
	Acute toxicity:					
	Exposure way	Method	Organism	DoseLD50/LC50	Exposure time	Result
	Swallowing:	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
	Skin contact:	Not applicable	Not applicable	Not applicable	Not applicable	
	Inhalation:	Not applicable	Not applicable	Not applicable	Not applicable	
	Irritation and corrosion					
		Exposure time	Organism	Evaluation	Method	Note
	Skin irritation:	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
	Eye irritation:	Not applicable	Not applicable	Not applicable	Not applicable	
	Irritation of respiratory system		Not applicable			
	Sensitization					

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Inhalation:	May cause allergic reaction.
Skin contact:	May cause allergic reaction. (relates to the mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-izotiazol-3-one)

CMR effects (carcinogenetic, mutagenic, reproductive toxicity)	
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Carcinogenic:	No information available
Mutagenic <i>in-vitro</i> :	
Genotoxic:	
Mutagenic <i>in-vivo</i> :	
Mutagenic effect on sex cells:	
Reproductive organs toxicity:	

Toxicity in repeated dose (sub-acute, sub-chronic, chronic)	
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	Dose	Exposure time	Organism	Method	Evaluation	Note
Sub-acute to mouth	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Sub-acute on skin	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Sub-acute inhalation	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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):	
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	Specific effects	Exposed organ	Note
Swallowing:	Not applicable	Not applicable	No information available
Skin contact:	Not applicable	Not applicable	
Inhalation:	Not applicable	Not applicable	

Specific toxicity for organ target – repeated exposure (STOT RE):	
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	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:		No information available				
Skin contact:						
Inhalation:						
Eye contact:						
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: for mixture of 5-chloro-2-methyl-2H-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one						
Acute toxicity	Dose	Exposure time	Organism	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Oncorhynchus Mykiss	Not applicable	0.19 mg/l	No information available
Crabs (Daphnia)	EC ₅₀	48 hours	Daphia Magna	Not applicable	0.16 mg/l	

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Algae/water plants	IC ₅₀	72 hours	Scendesmus Capricornutum	Not applicable	0.027 mg/l	
Other organisms	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	No information available
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 applicable

Biodegradability

% degradation	Time (days)	Method	Evaluation	Note
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

12.3. Bioaccumulative potential: for mixture of 5-chloro-2-methyl-2H-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one

Partition coefficient: n-octanol/water (log Pow)

Value	Concentration	pH	°C	Method	Evaluation	Note
-0.486	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

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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:

No information available

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 applicable

12.6. Other adverse effects

Product is not environmentally hazardous.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Disposal of unused chemical/contaminated packaging:

Disposal must be in line with official local, national, regional and international regulations. Contaminated packaging is to be handed over to the authorized person for waste disposal.

13.1.2. Waste labelling according to waste catalogue:

08 01 99 Wastes not otherwise specified
15 01 02 plastic packaging

13.1.3. Waste treatment forms:

Not applicable

13.1.4. Possibility of disposal to sewage:

Not applicable

13.1.5. Other recommendations for disposal:

Not applicable

13.1.6. Regulations for waste management:

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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:	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

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 loose state (MARPOL73/78 and 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

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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
	Product subcategory mark (paints and varnishes):	A(h)
	Information on emissions of volatile organic compounds (VOC):	VOC: A(h), 30 g/l; max 30 g/l
15.2.	Chemical safety assessment	Chemical safety assessment not performed.

SECTION 16. OTHER INFORMATION

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	
Product not classified as hazardous	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	301	Toxic if swallowed.
H	311	Toxic in contact with skin.
H	314	Causes severe skin burns.
H	317	May cause allergic skin reaction.

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H	331	Toxic if inhaled.
H	400	Very toxic to aquatic life.
H	410	Very toxic to aquatic life with long-lasting consequences.
P	102	Keep out of reach of children.
P	280	Wear protective gloves/protective clothing/eye protection/face protection
P	501	Dispose of contents /container in accordance with local/ national/ regional/international regulations
EUH	208	Contains (Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (EC: mixture; CAS: 55965-84-9)). May cause an allergic reaction.
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 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. It is product user's responsibility to obey local legislation.