







## 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:	Putzgrund	BTL.C. 50.03
Product code:	Production date: April 3, 2016	Version no: 03

Product is not classified as environmental hazard.	
6.3.	Methods and materials for containment and cleaning up
6.3.1.	For confinement: Wiping or vacuum cleaning.
6.3.2.	For cleaning up: Collect spilled material with inert absorbing material (i.e. clay, Diatomaceous earth) as soon as possible.
6.3.3.	Other information: Storage in appropriate disposal containers, defined procedure and to approved disposal location.
6.4.	Reference to other sections
Contaminated material should be disposed pursuant to Section 13. Use personal protection equipment pursuant to Section 8.	
<b>SECTION 7. HANDLING AND STORAGE</b>	
7.1.	Precautions for safe handling
7.1.1.	Protective measures
	Recommendations for safe handling: Wear adequate protective equipment (Subsection 6.1). Avoid contact with skin and eyes. Do not swallow. Do not smoke in the vicinity, avoid open fire.
	Fire prevention measures: Not applicable
	Aerosol and dust formation preventive measures: Not applicable
	Incompatible materials handling: Not applicable
	Environment protective measures: Not applicable
7.1.2.	General hygienic measures advice:
Wash hands regularly. Do not smoke in the vicinity, avoid open fire. Adequate ventilation at the workplace.	
7.2.	Conditions for safe storage, including any incompatibilities
	Technical measures and storage conditions: Keep in tightly sealed packaging, away from heat sources and direct sun. Protect from high temperatures.
	Packaging materials: PP (polypropylene)
	Requests for storage rooms and containers: Not applicable
	Storage class: Not applicable
	Other information on storage conditions: Dry room. Recommended temperature from 5-25°C. Do not allow to freeze.
7.3.	Specific and use(s)
	Recommendations: Not applicable
	Special solutions for industrial sector: Not applicable

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION				
8.1.	Control parameters:			
Substance	CAS number	Exposure limiting value (ELV/KELV)		Biological limiting values
		ppm	mg/m <sup>3</sup>	
No information available for substance in Section 3.	Not applicable	Not applicable	Not applicable	Not applicable
Substance: No information available for substance in Section 3.				
EC no.:	Not applicable	EC no.:	Not applicable	EC no.: Not applicable
<b>DNEL</b>				
<b>Worker</b>				
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	
<b>User</b>				
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
<b>PNEC</b>				
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 controls			
8.2.1.	Appropriate technical control			

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	Exposure control measures in identified application:	Do not drink, eat or smoke while working with product.
	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:	
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 classified as environmental hazard.
	Exposure control measures in identified application:	
	Structural measures for exposure prevention:	
	Organizational measures for exposure prevention:	

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1.	Information on basic physical and chemical properties		
		Value	Method
	Form:	Fluid	Not applicable
	Color:	White	Not applicable
	Odor:	No odor	Not applicable
	Odor threshold:	Not applicable	Not applicable
	pH:	6.8	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
	Vapor pressure:	Not applicable	

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		Not applicable
Vapor 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:	18750 mPa.S	BDS EN ISO 2555:2003
Explosion features:	Not applicable	Not applicable
Oxidizing features:	Not applicable	Not applicable

**9.2. Other information**

<b>II</b>	Drying:	<2h	BDS EN ISO 9117-6:2012
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**SECTION 10. STABILITY AND REACTIVITY**

10.1.	Reactivity:	No information available
10.2.	Chemical stability:	Stabile under recommended storage conditions.
10.3.	Possibility of hazardous reactions:	No information available
10.4.	Conditions to avoid:	Temperatures under +5 and above 30°C.
10.5.	Incompatible materials:	No information available
10.6.	Hazardous decomposition products:	No information available

**SECTION 11. TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

Acute toxicity: for mixture 5-Chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one

Exposure way	Method	Organism	Dose LD <sub>50</sub> /LC <sub>50</sub>	Exposure time	Result
Swallowing:	Not applicable	Rat	457 mg/kg	Not applicable	Irritation
Skin contact:	Not applicable	Hare	660 mg/kg	Not applicable	
Inhaling:	Not applicable	Rat	2.36mg/l	4h	

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Irritation and corrosion						
	Exposure time	Organism	Evaluation	Method	Note	
Skin irritation:	Not applicable	Hare	Not applicable	Not applicable	Irritation	
Eye irritation:	Not applicable	Hare	Not applicable	Not applicable		
Irritation of respiratory system		Not applicable				
Sensitization						
Inhalation:	No information available.					
Skin contact:	Possible allergic reactions.					
CMR effects (carcinogenetic, mutagenic, reproductive toxicity)						
Carcinogenetic:	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)						
	Dose	Exposure time	Organism	Method	Evaluation	Note
Sub-acute to mouth	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	No information available
Sub-acute on skin	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Sub-acute inhalation	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Sub-chronic to mouth	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Sub-chronic on skin	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Sub-chronic inhalation	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Chronic to mouth	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Chronic on skin	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Chronic inhalation	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	



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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
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Probable exposure ways:	Not applicable
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Symptoms referring to physical, chemical and toxic features
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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
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Interaction effects:	Not applicable
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Lack of certain information:	Not applicable
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Information on mixture in the reference to its ingredients information:	Not applicable
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Other information:	Not applicable
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### SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity: for mixture 5-Chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one

Acute toxicity	Dose	Exposure time	Organism	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	Oncorhynchus Mykiss	Not applicable	0.19 mg/l	Not applicable

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Crabs (Daphnia)	EC <sub>50</sub>	48 hours	Daphia Magna	Not applicable	0.16 mg/l	Not applicable
Algae/water plants	IC <sub>50</sub>	72 hours	Scendesmus Capricornutum	Not applicable	0.027 mg/l	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 <sub>50</sub>	96 hours	Not applicable	Not applicable	Not applicable	No information available
Crabs (Daphnia)	EC <sub>50</sub>	48 hours	Not applicable	Not applicable	Not applicable	No information available
Algae/water plants	IC <sub>50</sub>	72 hours	Not applicable	Not applicable	Not applicable	No information available
Other organisms	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	No information available

### 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	No information available

### 12.3. Bioaccumulative potential for mixture 5-Chloro-2-methyl-2H-isothiazol-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

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Value	Dose	Exposure time	Organism	Method	Evaluation	Note
Chronic toxicity in fish	LC <sub>50</sub>	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Chronic toxicity in crabs (Daphnia)	EC <sub>50</sub>	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>12.4. Mobility in soil</b>						
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	
<b>Adsorption/desorption</b>						
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
<b>12.5. Results of PBT and vPvB assessment</b>						
Not applicable						
<b>12.6. Other adverse effects</b>						
Not applicable						
<b>SECTION 13. DISPOSAL CONSIDERATIONS</b>						
<b>13.1. Waste treatment methods</b>						
13.1.1. Disposal of unused chemical/contaminated packaging:						
Disposal should be in line with official local and national regulations. Contaminated packaging should be delivered to person authorized for waste management.						
13.1.2. Waste labeling according to waste catalogue:						
08 01 99 waste not otherwise specified 15 01 02 plastic packaging						
13.1.3. Waste treatment forms:						
Not applicable						
13.1.4. Possibility of disposal to sewage:						

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	Not applicable
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 provision
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 provision
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 provision
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 provision
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

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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 provision
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 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
	Designation of product sub-category (paints and varnishes):	A(h)
	Information on emissions of volatile organic compounds (VOC):	VOC: A(h), 30g/l; max. 30g/l

15.2.	Chemical safety assessment	Chemical safety assessment not performed.
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### 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, Report on product testing in certified laboratory
Classification and procedures used for classification of mixture according to CLP/GHS system	
Classification according to CLP/GHS system	Classification procedure
Product was not classified hazardous	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)

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Relevant R, H, S 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 and eye damage.
H	317		May cause an allergic skin reaction.
H	331		Toxic if inhaled.
H	400		Very toxic to aquatic life.
H	410		Very toxic to aquatic life with long lasting effects.
R	23/24/25		Toxic by inhalation, in contact with skin and if swallowed.
R	34		Causes burns.
R	43		May cause sensitization by skin contact.
R	50/53		Very toxic to aquatic organisms, may cause long lasting adverse effects in the aquatic environment.
P	102		Keep out of reach of children.
P	280		Wear protective gloves/protective clothing/eye protection/face protection
P	501		Disposal of contents /container in accordance with local/ national/ regional/international regulations
EUH	208		Contains (Mixture 5-Chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (EC: mixture; CAS: 55965-84-9)). May produce 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 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.	