

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:	KRISTALIT			BTL.C.87.01
Product code:		Production date:	October 13, 2018	Version no: 01

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY/ UNDERTAKING


1.1.	Product identifier	
	Trade name:	Kristalit
	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:	Kristalit is decorative, transparent final coating that provides an additional glittering, silverfish look for façade surfaces. 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 used product.
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)*:
	Eye irritation 2	H319 EUH208
2.1.2.	Additional information	
	Not applicable	
*Full text H and EUH marks in Section 16		
2.2.	Label elements	

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Pictogram/hazard symbol:	
Signal word/danger sign and written warning:	Warning
Hazard statements (H):	H319- Causes serious eye irritation
Precautionary statements (P) :	P102 – Keep out of reach of children P103- Read label before use P280 - Wear protective gloves/protective clothing/eye protection/face protection P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337+P313-If eye irritation persists: Get medical advice/attention. 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

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	55 – 70	Not classified as hazardous
Alkoxysilane	2943-75-1 / 220-941-2 / not applicable	Not applicable	4 – 8	Skin irritation 2, H315
Oxo alcohol ethoxylate	9043-30-5 / 500-027-5/not applicable	Not applicable	0.2 - 1	Acute toxicity 4, H302 Serious eye damage 1, H318

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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/ not applicable/ 613-167-00-5	Not applicable	0.001	Acute toxicity 3, H301 Acute toxicity 3, H311 Skin corrosion 1B, H314 Skin sensitization 1, H317 Acute toxicity 3, H331 Aquatic acute 1, H400 Aquatic chronic 1, H410 OM-factor 10
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*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:	Remove the person to fresh air. Consult a doctor in case of difficulties.
	After skin contact:	Remove immediately contaminated clothing and shoes. Rinse immediately with plenty of water and soap.
	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 with water. Consult a doctor in case of difficulties.
	Personal protection of person providing first aid:	Not applicable
4.2.	Most important symptoms and effects, both acute and delayed	
	After inhalation:	Not applicable
	After skin contacts:	Causes allergic reaction
	After eye contact:	Eye irritation 2
	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 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	
	Dangerous combustion products:	In combustion emits toxic fumes of carbon dioxide / carbon monoxide
5.3.	Advice for fire-fighters	

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	Wear breathing apparatus and appropriate protective equipment to prevent contact with eyes and skin.	
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:	See Section 8 for personal protective equipment. Isolate the contaminated area and prevent access of unauthorized personnel. Turn leaking containers leak-side up to prevent escape of liquid. Surround the spilled material with inert absorbent material such as: sand, sawdust or diatomaceous earth. Collect spillage with non-combustible absorbent material (sand, sawdust, diatomaceous earth) and dispose the waste in accordance with the local regulations.
	Accident prevention procedures:	
	Emergency procedures:	
6.1.2.	For people participating in accident response:	
	Not applicable	
6.2.	Environmental precautions	
	Do not discharge into rivers or sewer system.	
6.3.	Methods and materials for containment and cleaning up	
6.3.1.	For confinement:	Collect using sand or dry earth. Store waste in suitable containers for disposal, using prescribed procedure and at an approved disposal site.
6.3.2.	For cleaning up:	
6.3.3.	Other information:	
6.4.	Reference to other sections	
	Contaminated material should be disposed pursuant to Section13. 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:	Wear adequate protective equipment (from Section 6.1). Avoid skin and eyes contact. Do not swallow. Do not smoke in the vicinity of the product.
	Fire prevention measures:	
	Aerosol and dust formation preventive measures:	
	Incompatible materials handling:	
	Environment protective measures:	
7.1.2.	General hygienic measures advice:	
	Wear personal protective equipment. Do not eat, drink and smoke at the work place. Remove and wash contaminated clothing before reuse.	
7.2.	Conditions for safe storage, including any incompatibilities	
	Technical measures and storage conditions:	Keep in well closed containers, in a cold place.

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Product code:		Production date:	October 13, 2018	Version no: 01

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 5-30°C. Do not allow to freeze.

7.3.	Specific end 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	
No information available for substances from Section 3.	Not applicable	Not applicable	Not applicable	Not applicable

Substance:	No information available for substances from Section 3.			
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
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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

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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

Exposure control measures in identified application:	Do not smoke, drink or eat during work with the 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:	Wear protective goggles. Make sure that there is a shower in the vicinity to rinse eyes.
8.2.2.2 .	Skin protection	
	Hands protection:	Use protective gloves
	Protection of other body parts:	Wear protective suit.
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:	Prevent leaks of the product on the soil, in waterways
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:	Colourless to pale grey	Not applicable
Odour:	Characteristic	Not applicable

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	Odour threshold:	Not applicable	Not applicable
	pH:	7 – 8	BAS 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:	0.99 – 1.01 g/cm ³	BAS EN ISO 2811-1:2011
	Pouring density:	Not applicable	Not applicable
	Water permeability:	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
	Not applicable

SECTION 10. STABILITY AND REACTIVITY

10.1.	Reactivity:	Stable under recommended conditions of transport and storage.
10.2.	Chemical stability:	Stable under recommended storage conditions.
10.3.	Possibility of hazardous reactions:	No dangerous reactions will occur under normal conditions of transport and storage.
10.4.	Conditions to avoid:	Temperatures under +5°C and above +30°C
10.5.	Incompatible materials:	Strong acids. Strong oxidants.
10.6.	Hazardous disintegration products:	Emits toxic fumes in combustion.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1.	Information on toxicological effects
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	Acute toxicity: * Oxo alcohol ethoxylate					
Exposure way		Method	Organism	Dose LD50/LC50	Exposure time	Result
Swallowing*:		Not applicable	rat	2000 mg/kg	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	Serious eye irritation
	Irritation of respiratory system		Not applicable			
	Sensitization					
Inhalation:		No available information				
Skin contact:		Allergic reaction may occur.				
CMR effects (carcinogenetic, mutagenic, reproductive toxicity)						
Carcinogenetic:			No available information			
Mutagenic <i>in-vitro</i> :			No available information			
Genotoxic:			No available information			
Mutagenic <i>in-vivo</i> :			No available information			
Mutagenic effect on sex cells:			No available information			
Reproductive organs toxicity:			No available information			
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 available information
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	Not	Not	Not	Not	

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	applicable	applicable	applicable	applicable	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	
	Specific toxicity for organ target – single exposure (STOT SE):					
	Specific effects		Exposed organ		Note	
Swallowing:	Not applicable		Not applicable		No available information	
Skin contact:	Not applicable		Not applicable			
Inhalation:	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:	No available information				
	Skin contact:	No available information				
	Inhalation:	No available information				
	Eye contact:	No available information				
	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						

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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	
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)					

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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:						
	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						
	Not applicable						
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 and national 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						

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13.1.4.	Possibility of disposal to sewage:
	Do not discharge into the sewage system and rivers.
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:	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

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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 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. 21/18), Rulebook on classification, packaging and labelling of chemicals and certain products (RS Off. Gaz. no.9/16), 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), Law on changes and amendments to the Law on waste management (16/18)
	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(c)
	Information on emissions of volatile organic compounds (VOC):	VOC: A(c), 40 g/l; max 40 g/l
15.2.	Chemical safety assessment	Chemical safety assessment not performed.

SECTION 16. OTHER INFORMATION

	Changes report:	Not applicable
	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
Eye irritation 2		Classification procedure pursuant to procedures described in the Rulebook on classification, packaging and labelling of chemicals and certain products (RS Off. Gaz. no.9/16)
EUH208: Contains mixture of 5-chloro-2-methyl-2H-isothiazolin-3-one and 2-		Classification procedure pursuant to procedures described in the

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methyl-2H-isothiazol-3-one (EC: mixture; CAS: 55965-84-9). May cause allergic reaction.			Rulebook on classification, packaging and labelling of chemicals and certain products (RS Off. Gaz. no.9/16)
	Relevant H and P signs (number and full text)		
	H	301	Toxic if swallowed.
	H	302	Harmful if swallowed.
	H	311	Toxic in contact with skin
	H	314	Causes severe skin burns.
	H	315	Causes skin irritation.
	H	317	May cause allergic skin reaction.
	H	318	Causes serious eye damage.
	H	319	Causes serious eye irritation.
	H	331	Toxic if inhaled.
	H	400	Very toxic to aquatic life
	H	410	Very toxic to aquatic life with long-lasting effects.
	P	102	Keep out of reach of children.
	P	103	Read label before use.
	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
	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.