



# MATERIAL SAFETY DATA SHEET

## FOGLIARE ORCHIDEE

Current review date: 31/03/2023

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Commercial name : FOGLIARE ORCHIDEE Y301002

UFI : Non applicabile

Registration code : Non applicabile

European product categorisation system (EuPCS): PC-FER-6 - Plant biostimulants

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Uses	CONSUMER	PROFESSIONAL	INDUSTRIAL
	Orchid foliar moisturizer		
Uses advised against	All those not expressly identified on the label		
Life cycle stages	C-Consumer use PW- Widespread use by professional workers		

#### 1.3 Details of the supplier of the safety data sheet

Blumen Group S.p.a. tel. +39 0523 573211  
 Via Carlo Strinati 7/9 - Loc. Le Mose 29122 Piacenza (PC) mail: msds@blumen.it  
 Italy

#### 1.4 Emergency telephone number

Blumen Group Spa tel. +39 0523 573211 (mo-fri from 8.30 - 13.00 and 14.00 - 17.00)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### 2.1.1 Classification in accordance with Regulation (EC) No 1272/2008:

The product is not classified as dangerous in accordance with the provisions of Regulation (EC) 1272/2008 (CLP). However, since the product contains dangerous substances in concentrations such as to be declared in section 3, it requires a safety data sheet. The form must contain adequate information, in accordance with Regulation (EU) 2020/878.

Hazard pictogram(s) : None

Hazard Class and Notes Category Code(s) : None

Hazard statement Code(s) : None

##### 2.1.2 Adverse Effects

The presence of sensitizing substances, even in very low concentrations, can cause an allergic reaction.

#### 2.2 Label elements

##### 2.2.1 Label in accordance with Regulation (EC) No 1272/2008

Hazard pictogram(s) : None

Signal Word Code(s) : None

Hazard statement Code(s) : None

Suppl. Hazard statement Code(s) : EUH210 - Safety data sheet available on request

EUH208 - Contains (Methylchloroisothiazolinone and methylisothiazolinone). May produce an allergic reaction

Precautionary statements :

##### General

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

##### Disposal

P501 - Dispose of contents/container in accordance with local/ national regulation.

##### 2.2.2 Additional regulations to be implemented on the label

Regulation (EC) 648/2004 : Not applicable

Regulation (EU) 528/2012 : Non applicabile

#### 2.3 Other hazards

The mixture does NOT contain PBT / vPvB substances according to Regulation (EC) 1907/2006, annex XIII in concentrations equal to or greater than 0.1% by weight. The mixture does NOT contain substances that have been included in the list established in accordance with Article 59, paragraph 1 due to properties of interference with the endocrine system in concentrations equal to or greater than 0.1% by weight.

The mixture does NOT contain a substance identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentrations equal to or greater than 0.1% by weight.

ISO 8317 - Child-resistant packaging - Requirements and testing procedures for reclosable packages

Not applicable

EN 862 - Child-resistant packaging - Requirements and testing procedures for non-reclosable packages for non-pharmaceutical products

Tactile warnings of danger (ISO 11683 - Packaging - Tactile warnings of danger - Requirements)

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not relevant

#### 3.2 Mixtures

Refer to section 16 for the full text of the hazard statements.

If "INDEX NUMBER" is present, all that follows in bold refers to the harmonized classification, while what is not in bold refers to the self-classification.

Index number	EC/List n°	CAS	REACH	International Chemical Identification		X= Conc. %
613-167-00-5	--	55965-84-9	--	Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)		0.0001 < x < 0.0005
Hazard Class and Category Code(s), Hazard Statement Code(s)			Classification	Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Acute Tox. 3 H301, Acute Tox. 2 H310, Acute Tox. 2 H330, Skin Corr. 1C H314, Skin Sens. 1A H317, Eye Dam. 1 H318, Aquatic Acute 1 H400, Aquatic Chronic 1 H410			EUH071		GHS05, GHS06, GHS09 DANGER	Eye Dam. 1: C ≥ 0,6 % Eye Irrit. 2: H319: 0,06 % ≤ C < 0,6 % Skin Corr. 1C: C ≥ 0,6 % Skin Irrit. 2: H315: 0,06 % ≤ C < 0,6 % Skin Sens. 1A: C ≥ 0,0015 % M (Acute) = 100 M (Chronic) = 100
						B



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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

First aid instructions categorized according to relevant routes of exposure. It is advisable for those who provide first aid to wear the personal protective equipment deemed suitable for the conditions in which the intervention is to be carried out.

##### Inhalation

Remove the injured person from the contaminated environment and keep him at rest in a well-ventilated area.

##### Skin

Wash the areas of the body that have come into contact with plenty of running water.

##### Eyes

Irrigate immediately and abundantly for about 15 minutes with running water keeping the eyelids open. If present and if easily feasible, remove any contact lenses. Do not use eye drops or ointments of any kind before the visit or advice of the ophthalmologist.

##### Ingestion

Absolutely do not induce vomiting and do not administer anything unless expressly indicated by the doctor to whom you must contact promptly.

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

##### Inhalation

They are not known and there are no specific reports on symptoms and effects caused by the product.

##### Skin

Redness.

##### Eyes

Burning. Redness.

##### Ingestion

Irritation of the upper digestive tract.

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

See section 4.1 Description of first aid measures.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media :** Water spray, CO<sub>2</sub>, alcohol resistant foam, chemical powders depending on the materials involved in the fire.

**Unsuitable extinguishing media :** Direct water jets

#### 5.2 Special hazards arising from the substance or mixture

During combustion, fumes that are potentially harmful to health may develop

#### 5.3 Advice for firefighters

Firefighters must always wear the specific protective equipment of the firefighting team (helmet, boots, fireproof gloves and, if deemed necessary, positive pressure self-contained breathing apparatus with protective shield (EN469). Water spray to disperse the vapors and can be used to protect people engaged in extinguishing. It is also advisable to use self-contained breathing apparatus if you work in closed and poorly ventilated places.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel :** Move away from the area surrounding the spill or release. Not smoking.

**For emergency responders :** Evacuate the danger area, consult an expert if necessary. Not smoking

#### 6.2 Environmental precautions

Contain the leaks with inert material (e.g. earth or sand).

#### 6.3 Methods and material for containment and cleaning up

##### 6.3.1 Appropriate advice shall be provided on how to contain a spill

Contain and absorb the spilled liquid with inert absorbent materials (sand, earth or other specific products) and place in sealed containers.

##### 6.3.2 Appropriate advice shall be provided on how to clean-up a spill

After collection, wash the affected area and materials with plenty of water and recover the resulting fluids.

##### 6.3.3 Any other information shall be provided relating to spills and releases, including advice on inappropriate containment or clean-up techniques

Hand over waste only to specialized companies

#### 6.4 Reference to other sections

Refer to sections 8 and 13 for more information

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Do not smoke, eat or drink while handling. Normal precautions for handling chemicals.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in the original packaging, tightly closed, in a cool, dry place.

How to manage risks associated with:

- i) explosive atmospheres
- ii) corrosive conditions
- iii) flammability hazards
- iv) incompatible substances or mixtures
- v) evaporative conditions
- vi) potential ignition sources (including electrical equipment)

How to control the effects of:

- i) weather conditions
- ii) ambient pressure
- iii) Temperature

None known if stored in the original container and tightly closed

Store away from incompatible materials.

The product is not flammable.

Avoid contact with acids, bases, strong oxidizing and reducing agents

Keep containers closed and in ventilated rooms at room temperature.


In normal conditions of use and storage nothing to report.

Nothing to report

Nothing to report

Store at room temperature



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- iv) sunlight  
v) humidity  
vi) Vibration

Avoid exposing to direct sunlight  
Nothing to report  
Nothing to report

How to maintain the integrity of the substance or mixture by the use of:

- i) stabilisers  
ii) antioxidants

Not applicable  
Not applicable

Other advice including

- i) ventilation requirements  
ii) specific designs for storage rooms or vessels (including retention walls and ventilation)  
iii) quantity limits under storage conditions (if relevant)  
iv) packaging compatibilities  
v) Storage class

Store in cool and ventilated areas  
Trust an expert  
Comply with the authorizations required by any authorizations requested and/or obtained.  
Store in original containers  
Not applicable

### 7.3 Specific end use(s)

Consumer Uses. Professional uses. Follow the instructions given on the label/technical data sheets.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Related to the substances contained

<b>Substance:</b>		Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)							
<b>CAS:</b>		55965-84-9							
<b>GESTIS International Limit Values</b>									
		Limit value – Eight hours		Limit value – Short term					
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>				
Austria	--	--	0,05	--	--				
Germany (DFG)	--	--	0,2 (1)	--	0,4 (1)(2)				
Switzerland	--	--	0,2 (1)	--	0,4 (1)				
		Remarks							
Germany (DFG)	(1) Inhalable fraction (2) 15 minutes average value								
Switzerland	(1) Inhalable fraction								
<b>Link DNEL value</b>		--							
<b>DNEL (Workers)</b>			<b>DNEL (Population)</b>						
	<b>Systemic</b>		<b>Local</b>			<b>Systemic</b>		<b>Local</b>	
	Long term	Short term	Long term	Short term		Long term	Short term	Long term	Short term
Inhalation	Not available		Not available		Inhalation	Not available		Not available	
Dermal	Not available		Not available		Dermal	Not available		Not available	
Oral	Not available		Not available		Oral	Not available		Not available	
Eyes	Not available		Not available		Eyes	Not available		Not available	
<b>PNEC</b>									
	Freshwater	Not available	Intermittent	Not available		Marine water	Not available		
	STP	Not available	Sediment (freshwater)	Not available		Sediment (marine water)	Not available		
	Air	Not available	Soil	Not available		Hazard for predators	Not available		

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

If, following the risk assessment and the adoption of preventive technical and/or organizational collective protection measures, it appears that there is still a residual risk for the worker, it is necessary to equip the worker with Personal Protective Equipment. In any company, however, the instructions given by the Head of the Prevention and Protection Service must be complied with, who will have assessed the risk deriving from all the products used in each working phase. Before choosing the PPE to wear, it is essential to know the risks associated with the work environment, the environmental conditions, the job of the wearer and after having consulted the instructions provided by the manufacturer. All PPE belonging to the third category must be delivered to operators only after adequate training.


The use of this mixture does not imply the application of Directive 2004/37 / EC on the protection of workers against the risks deriving from exposure to carcinogens or mutagens at work.

**Descriptor for Process categories:** PROC19 - Manual activities involving hand contact

#### 8.2.2 Individual protection measures, such as personal protective equipment


The information below must be considered only as an aid to the Head of the Prevention and Protection Service as in addition to this mixture he will have to implement the choices on PPE also in consideration of the other chemical products present in the company used in each specific working phase.

##### a) EYE/FACE PROTECTION

PITTOGRAM	PPE	METHOD OF CHOOSING THE PPE				
  Eye and face protection devices	PPE for the eyes are second category and must be provided with indelible CE marking and the number of the Notified Body that issued the certification. Their use is foreseen in all places where there is a risk of projections of solid bodies, liquids or optical radiation. For eyeglass wearers, it is possible to use over glasses if the duration of use is limited or to mount graduated lenses on safety frames. Operators wearing contact lenses must make their condition known in order to make it easier, if necessary, to remove them by first aid workers in case of need in an emergency. Standard EN166 Personal eye protection - Specifications	RISK CHARACTERISTICS	PROTECTION			
			Eyeglasses	Glasses with side shields	Mask glasses	Face shield
		Frontal sketches	Good	Good	Excellent	Excellent
		Side sketches	Scarso	Good	Excellent	Good / Excellent
		Frontal splinters	Excellent	Good	Excellent	Excellent if of adequate thickness
		Side impacts	Scant	Fairly good	Excellent	It depends on the length
		Neck and face protection	Scant	Scant	Scant	Fairly good
		Wearability	Good / Very good	Good	Fairly good	Good (for short periods)
		Continuous use	Very good	Very good	Fairly good	Fairly good
Acceptability for use	Very good	Good	Scant	Fairly good		



The Head of the Prevention and Protection Service will assess the need to provide eyewash devices near the areas where the mixture is used.

Handling/handling of the bulk product requires eye/face protection in compliance with the general indications given above.

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## b) SKIN PROTECTION


## i) Hand protection

PITTOGRAM	PPE	METHOD OF CHOOSING THE PPE			
 Gloves	<p>The choice of gloves depends on the worker's job, the characteristics of the glove and its biocompatibility. The "grip" must always be guaranteed. The general requirements for choosing the most suitable PPE are: harmlessness, ergonomics / comfort, dexterity, transmission and absorption of water vapor and cleaning. Regarding these requirements, the reference technical standard is UNI EN 420 - Protective gloves. General requirements and test methods. Gloves that protect against chemicals are regulated by EN374 - Protective gloves against chemicals and microorganisms. The basic requirements for this type of gloves are: penetration and permeation. Chemical protective gloves are divided into three categories: Type A, B and C; the belonging to which depends on the number of chemicals tested, from a list of 18 substances that have reached a defined permeation time. Gloves must be checked before use. The choice of gloves based on resistance must be made following the UNI EN 16523 standard - Determination of the resistance of materials to the permeation of chemical products. Use proper technique to remove gloves avoiding skin contact with the contaminated outer surface of the glove.</p> <p>After use, wash and dry your hands.</p>	CHEMICAL PROTECTION			
		Type	Level	Time	Substances
		A	2	30 minutes	minimum 6
		B	2	30 minutes	minimum 3
		C	1	10 minutes	minimum 1
 Gloves	<p>The choice of gloves depends on the worker's job, the characteristics of the glove and its biocompatibility. The "grip" must always be guaranteed. The general requirements for choosing the most suitable PPE are: harmlessness, ergonomics / comfort, dexterity, transmission and absorption of water vapor and cleaning. Regarding these requirements, the reference technical standard is UNI EN 420 - Protective gloves. General requirements and test methods. Gloves that protect against chemicals are regulated by EN374 - Protective gloves against chemicals and microorganisms. The basic requirements for this type of gloves are: penetration and permeation. Chemical protective gloves are divided into three categories: Type A, B and C; the belonging to which depends on the number of chemicals tested, from a list of 18 substances that have reached a defined permeation time. Gloves must be checked before use. The choice of gloves based on resistance must be made following the UNI EN 16523 standard - Determination of the resistance of materials to the permeation of chemical products. Use proper technique to remove gloves avoiding skin contact with the contaminated outer surface of the glove.</p> <p>After use, wash and dry your hands.</p>	MATERIALS FOR PROTECTION FROM CHEMICAL AGENTS			
		LATEX	NEOPRENE	NITRILE	PVC
		Excellent flexibility and tear resistance	Polyvalent chemical resistance: acids, aliphatic solvents. Good resistance to sunlight and ozone.	Excellent resistance to abrasion and perforation. Excellent resistance to hydrocarbon derivatives	Good resistance to acids and bases
		It can cause allergic reactions. Avoid contact with fatty oils and hydrocarbon derivatives.	Avoid contact with fatty oils and hydrocarbon derivatives	Avoid contact with solvents containing ketones and oxidizing acids, organic nitrogen products.	Weak mechanical resistance. Avoid contact with solvents containing ketones and aromatic solvents
		Highlights	Precautions		

The Head of the Prevention and Protection Service will evaluate the choice of PPE to be used based on the duties.

The handling/manipulation of the bulk product requires the use of gloves in compliance with the general indications given above.


## i) other

PITTOGRAM	PPE	METHOD OF CHOOSING THE PPE				
 Work clothing	PPE for the body can be of different categories depending on their specific use. Under normal working conditions, normal work clothing offers characteristics that provide sufficient protection for workers. In activities presenting particular risks, specific "protective clothing" should be used which covers or replaces personal clothing and which is designed with specific protective characteristics. The basic requirements relating to the ergonomics and health of PPE for the body are: harmlessness of the materials, comfort and effectiveness factors, design, thermal resistance of the clothing and the characteristics of the operators. Please note that to ensure adequacy and mobility with full-coverage protective clothing, it is recommended that all operators carry out the "seven movements" test. Standard EN 13688 Protective clothing - General requirements	DANGER	Full coverage garment		Partial coverage garment	
			Waterproof	Permeable to air	Waterproof	Permeable to air
		Gas and fumes	A	NO	NO	NO
		Jets of liquids	A	NO	P	NO
		Splashes and splashes	A	P	P	P
		Dust	A	A	P	P
		Dirt	A	A	A	A
NO: Indicates that the possibility is not compatible - A: suitable combination - P: combination that depends on external conditions						
The protective clothing against chemicals, depending on the barrier performance of the raw material used and the packaging of the garment, have different types of protection: Type 1 (gas-tight), Type 2 (non-watertight gas), Type 3 (liquid tight), Type 4 (splash tight), Type 5 (dust tight), Type 6 (limited liquid splash tight). The chemical risks are many and it is therefore necessary to choose the most appropriate garment, also considering that the materials can be both waterproof and permeable, evaluating the combination between the type of protection offered by the construction techniques and the design adopted for the realization of the garment. itself and the performance class from the raw material.						


If the Head of the Prevention and Protection Service deems it necessary, protective clothing can be worn in combination with an appropriate respiratory protection device and with boots, gloves or other means of protection.

The handling/manipulation of the bulk product requires the use of gloves in compliance with the general indications given above.

## a) RESPIRATORY PROTECTION

PITTOGRAM	PPE	METHOD OF CHOOSING THE PPE				
 RPD (Respiratory protective devices)	<p>PPE for respiratory protection are of the third category and must be provided with CE marking, the number of the Notified Body that issued the certification and must be provided only after information, training and specific training on their use. To define the type of RPD to use, pay attention to the oxygen rate present in the workplace, using the O<sub>2</sub> concentration of 17% as a limit. Carefully define the type of contaminant (Gas, steam / Dust, particles, viruses), its detection threshold and its use or not in a confined space.</p> <p>The UNI EN 529 standard (Respiratory protection devices - Recommendations for selection, use, care and maintenance - Guidance document) establishing the appropriate FPD value "operational protection factor" (eg use of face masks as per standard UNI EN149 - Respiratory protective devices - Filtering half mask against particles) can be a valid aid in determining the most correct PPE.</p>	DUST FILTERS				
		Efficiency	Dust class	RPD class and marking	Minimum total filtering efficiency	Protection
		LOW	Filters P1	Respirators FFP1	78%	Powders/Harmful aerosol
		AVERAGE	Filters P2	Respirators FFP2	92%	Powders/fumes/ low toxicity aerosol
		HIGH	Filters P3	Respirators FFP3	98%	Powders/fumes / Harmful aerosol
		GAS FILTERS				
		Capacity	Class	Maximum concentration		
		Low	1	Gas / vapor concentrations up to 1000 ppm		
		Average	2	Gas / vapor concentrations up to 5000 ppm		
		High	3	Gas / vapor concentrations up to 10000 ppm		
TYPE OF FILTERS						
Type	Protection			Filter color		
A	Organic gases and vapors with a boiling point> 65 ° C			BROWN		
B	Inorganic gases and vapors			GREY		
E	Acid gases			YELLOW		
K	Ammonia and derivatives			GREEN		
P	Toxic dusts, fumes, mists			WHITE		
AX (EN371)	Low boiling point organic gases and vapors <65 ° C			BROWN		
FACTORS TO CONSIDER		REASON				
Type of substance	Correct choice of filter type					
Concentrations	Need / opportunity to protect other parts of the face (eyes - face)					
	Filter capacity in relation to exposure time					
Visibility	Reduction of protection					
Freedom of movement	Reduction of weight and discomfort					
Facial anatomy	Mask adequacy					
Environmental conditions						
		DUST FILTER RESPIRATORS				
		Filter respirator			NPF	OPF
		Facial Filter FFP1 Half mask + P1			4	4
		Facial Filter FFP2 Half mask + P2			12	10
		Facial Filter FFP3 Half mask + P3			50	30
		Full face + P1			5	4
		Full face + P2			20	15
		Full face + P3			1000	400




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The Head of the Prevention and Protection Service, as well as correctly defining the specific PPE for the activities, must pay attention to follow the instructions provided by the manufacturers of the various PPE.

If the handling/handling of the bulk product takes place in the absence of air changes or in isolated environments, use adequate respiratory protection with an FFP1 type filter.

#### a) THERMAL HAZARDS

PITTOGRAM	PPE	OBSERVATIONS
 Hot/Cold	<p>The indications provided in this section define the PPE intended to protect against possible temperature variations that the mixture causes or that the mixture itself may undergo during normal working activities. PPE must protect against excesses in external temperature by maintaining body temperature, thermally insulate while maintaining permeability to water and air to ensure sweating and moisture removal, respectively, so as not to cause heat loss. In order to protect themselves from the cold, PPE must retain a degree of flexibility that allows the operator to perform the necessary actions and to assume certain positions. PPE intended for short-term interventions or likely to receive projections of hot products, must have a calorific capacity sufficient to return most of the stored heat only after the user has removed them.</p>	<p>PPE intended to protect against thermal differences must have an adequate heat flow transmission coefficient to avoid any risk of damage as required by the foreseeable conditions of use.</p> <p>The heat flow transmitted to the operator during the use of PPE must be such that its accumulation does not in any case reach the pain threshold or the one in which any harmful effect on health occurs. PPE must prevent, as far as possible, the penetration of liquids and must not cause injury caused by contact between their protective coating and the operator.</p>

The choice of this type of PPE must be made by guaranteeing thermal insulation power and mechanical and chemical resistance adequate to the foreseeable conditions of use that the Head of the Prevention and Protection Service deems necessary.

THE MIXTURE IS NOT EXPECTED TO CAUSE OR UNDERTAKE SIGNIFICANT TEMPERATURE CHANGES DURING THE INTENDED USE.

#### 8.2.3 Environmental exposure controls

Prevent uncontrolled release into the environment.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

The physical and chemical properties listed below are not to be considered technical specifications. The reference specifications are shown in the technical documentation.

Physical and chemical properties	Value	Notes or analytical method
a) Physical state	Liquid	as defined by Annex I, section 1.0 of Reg. 1272/2008
b) Colour	Transparent light blue	--
c) Odour	Characteristic	If available, indicate the olfactory threshold (qualitative or quantitative)
d) Melting point/freezing point	Not available	Not applicable to gases.
e) Boiling point or initial boiling point and boiling range	> 50°C	Theoretical
f) Flammability	Non inflammable	Applicable to gases, liquids and solids
g) Lower and upper explosion limit	Not available	Not applicable to solids
h) Flash point	> 60°C	Theoretical
i) Auto-ignition temperature	Not available	Only applicable to gases and liquids
j) Decomposition temperature	Not applicable	Only applicable to self-reactive substances and mixtures, organic peroxides and other substances and mixtures which may decompose.
k) pH	6.5-7.3	100% solution
l) Kinematic viscosity	Not available	Applies to liquids only
m) Solubility	Soluble in water	--
n) Partition coefficient n-octanol/water (log value)	Not applicable	does not apply to inorganic and ionic liquids and, as a rule, does not apply to mixtures
o) Vapour pressure	Not available	According to the REACH regulation, the study must not be conducted if the melting point is above 300°C (Annex VII, column 2 adaptation).
p) Density and/or relative density	Not available	only applies to liquids and solids.
q) Relative vapour density	Not available	only applies to gases and liquids.
r) Particle characteristics	Not applicable	applies only to solids

### 9.2 Other information


a) Explosives:	Not applicable
b) Flammable gases:	Not applicable
c) Aerosols:	Not applicable
d) Oxidising gases:	Not applicable
e) Gases under pressure:	Not applicable
f) Flammable liquids:	Not applicable
g) Flammable solids:	Not applicable
h) Self-reactive substances and mixtures:	Not applicable
i) Pyrophoric liquids:	Not applicable
j) Pyrophoric solids:	Not applicable
k) Self-heating substances and mixtures:	Not applicable
l) Substances and mixtures, which emit flammable gases in contact with water:	Not applicable
m) Oxidising liquids:	Not applicable
n) Oxidising solids:	Not applicable
o) Organic peroxides:	Not applicable
p) Corrosive to metals:	Not applicable
q) Desensitised explosives:	Not applicable

#### 9.2.2 Other safety characteristics

a) mechanical sensitivity	: Not applicable
b) self-accelerating polymerisation temperature	: Not applicable
c) formation of explosible dust/air mixtures	: Not applicable
d) acid/alkaline reserve	: not available
e) evaporation rate	: not available
f) miscibility	: Soluble in water
g) conductivity	: not available
h) corrosiveness	: Not applicable
i) gas group	: Not applicable
j) redox potential	: Not applicable
k) radical formation potential	: Not applicable
l) photocatalytic properties	: Not applicable

Other physical and chemical parameters:

No further data

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under normal conditions of use and storage.

### 10.2 Chemical stability

Stable under normal conditions of use and storage.

### 10.3 Possibility of hazardous reactions

None known under normal conditions of use.

### 10.4 Conditions to avoid

- a) Temperature : do not subject to heating
- b) Pressure : nothing to report
- c) Light : Keep out of direct sunlight
- d) Static discharge : nothing to report
- e) Vibrations : nothing to report
- f) Other physical stresses : no other data available

### 10.5 Incompatible materials

- a) Water : nothing to report
- b) Air : nothing to report
- c) Acids : avoid contact
- d) Bases : avoid contact
- e) Oxidising agents : avoid contact
- f) Reducing agents : avoid contact
- g) Chemicals : avoid contact

### 10.6 Hazardous decomposition products

Under normal conditions the preparation does not decompose. Due to thermal decomposition, fumes harmful to health are released.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Hazard classes	Information
a) acute toxicity	: Not classified, based on available data, the classification criteria are not met.
b) skin corrosion/irritation	: Not classified, based on available data, the classification criteria are not met.
c) serious eye damage/irritation	: Not classified, based on available data, the classification criteria are not met.
d) respiratory or skin sensitisation	: The presence of sensitizing substances, even in very low concentrations, can cause an allergic reaction.
e) germ cell mutagenicity	: Not classified, based on available data, the classification criteria are not met.
f) carcinogenicity	: Not classified, based on available data, the classification criteria are not met.
g) reproductive toxicity	: Not classified, based on available data, the classification criteria are not met.
h) STOT-single exposure	: Not classified, based on available data, the classification criteria are not met.
i) STOT-repeated exposure	: Not classified, based on available data, the classification criteria are not met.
j) aspiration hazard	: Not classified, based on available data, the classification criteria are not met.

#### Specific toxicological information for the substances contained (if available)

<b>Substance:</b> <b>CAS:</b>	Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) 55965-84-9
<b>ORALE</b> Rat LD50: 457 mg/kg bw	<b>INALATORIA</b> Rat LC50 1.23 mg/m³ air
<b>DERMICA</b> Rabbit LD50: 660 mg/kg bw	<b>NOTE</b> --

The values included in this section are those available, at the time of writing this SDS, in the ECHA dossier in the section Toxicological information or from the supplier's indications.

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

The mixture does NOT contain substances identified as having endocrine-disrupting properties in accordance with the criteria established in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentrations equal to or greater than 0.1% in weight.

#### 11.2.2 Other information

No further data available

## SECTION 12: Ecological information

**Environmental Release Categories:** ERC8a - Widespread use of non-reactive processing aid

### 12.1 Toxicity

Data not available for the mixture.

#### Ecotoxicological information specific to the substances contained

Substance:	Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)				
CAS:	55965-84-9				
LC50 – fish	96h - 0.19 mg/L	Species	Oncorhynchus mykiss	Guideline	EPA OPP 72-1 (Fish Acute Toxicity Test)
EC50 – aquatic invertebrates	48h - 0.16 mg/L	Species	Daphnia magna	Guideline	EPA OPP 72-2 (Fish Acute Toxicity Test)
EC50 – algae and cyanobacteria	72h - 0.037 mg/L	Species	Skeletonema costatum	Guideline:	OECD201
NOEC Cronica fish	--	Species	--	Guideline:	--
NOEC Cronica aquatic invertebrates	--	Species	--	Guideline:	--
NOEC Cronica algae and cyanobacteria	72h - 0.004 mg/L	Species	Skeletonema costatum	Guideline:	OECD201


### 12.2 Persistence and degradability

Data not available for the mixture.

#### Specific biodegradation information for the substances contained

Specific biodegradation information for the substances contained			
Substance:	Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)		
CAS:	55965-84-9		
Biodegradation in water:	Intrinsically biodegradable	Test time :	--



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**12.3 Bioaccumulative potential**

Data not available for the mixture.

**Bioaccumulation information specific to the substances contained**

<b>Substance:</b>	Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)		
<b>CAS:</b>	55965-84-9		
<b>Partition coefficient: octanol/water :</b>	Log Kow (Log Pow): 0.75		
<b>BCF</b>	--		

**12.4 Mobility in soil**

Data not available for the mixture.

**Mobility information in soil specific to the substances contained**

<b>Substance:</b>	Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
<b>CAS:</b>	55965-84-9
According to the US EPA's classification scheme, MIT is considered highly mobile. However, due to its rapid biodegradation in soil (half-life is 6.5 hours), mobility is unlikely to be an environmental concern.	

**12.5 Results of PBT and vPvB assessment**

The chemical safety report is not required for the mixture. However, based on the available data, the mixture does not contain PBT or vPvB substances in a percentage higher than 0.1 in accordance with Regulation 1907/2006, annex XIII.

**12.6 Endocrine disrupting properties**

The mixture does NOT contain substances identified as having endocrine-disrupting properties in accordance with the criteria established in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentrations equal to or greater than 0.1% in weight.

**12.7 Other adverse effects**

**Classification for water pollution in Germany (AwSV, vom 18. April 2017):** Not applicable

**SECTION 13: Disposal considerations**

The substance/mixture shall not be removed through the sewerage system.

**13.1 Waste treatment methods****Container material and type:**

Identificare l'esatto materiale dalla simbologia presente sull'imballo e verificando le disposizioni del proprio comune.

**Methods for waste treatment of the substance or mixture:**

DANGER FEATURES (Directive 2008/98 / EC):

None

RECOVERY OPERATIONS (Directive 2008/98 / EC):

R 13 Storage of waste pending any of the operations numbered R 1 to R 12

DISPOSAL OPERATIONS (Directive 2008/98 / EC):

D13 - Blending or mixing prior to submission to any of the operations numbered D 1 to D 12

EER CODE:

07 04 99 wastes not otherwise specified

**Methods for handling any contaminated packaging:**

DANGER FEATURES (Directive 2008/98 / EC):

None

RECOVERY OPERATIONS (Directive 2008/98 / EC):

R 13 Storage of waste pending any of the operations numbered R 1 to R 12

DISPOSAL OPERATIONS (Directive 2008/98 / EC):

D13 - Blending or mixing prior to submission to any of the operations numbered D 1 to D 12

EER CODE:

15 01 06 mixed packaging

**Physical / chemical properties that can affect waste treatment:**

None

**Special precautions for recommended waste treatment:**

The hazard characteristics, disposal and recovery operations and the suggested EWC codes refer to the product as it is without considering any changes due to use. It is therefore recommended, before disposal, to reclassify the waste, also evaluating its origin. Any mixing of different types of non-hazardous waste and any mixture of different hazardous waste is prohibited (Article 23 of Directive 2008/98 / EC). Disposal must be entrusted to an authorized waste treatment company, in compliance with national and possibly local regulations

**SECTION 14: Transport information**

Not included in the scope of the regulations on the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

	ADR	IMDG	IATA
14.1 UN number or ID number		Not applicable	
14.2 UN proper shipping name		Not applicable	
14.3 Transport hazard class(es)		Not applicable	
14.4 Packing group		Not applicable	
14.5 Environmental hazards		Not applicable	
14.6 Special precautions for user		Not applicable	
14.7 Maritime transport in bulk according to IMO instruments		Not applicable	

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006** concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

**REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008** on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

**Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008** on waste and repealing certain Directives.

**Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012** concerning the making available on the market and use of biocidal products.

**Commission Delegated Regulation (EU) 2017/2100 of 4 September 2017** setting out scientific criteria for the determination of endocrine-disrupting properties pursuant to Regulation (EU) No 528/2012 of the European Parliament and Council.

**Commission Regulation (EU) No 1357/2014 of 18 December 2014** replacing Annex III to Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives

**COMMISSION DECISION of 18 December 2014** amending Decision 2000/532/EC on the list of waste pursuant to Directive 2008/98/EC of the European Parliament and of the Council

**REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004** on detergents

**Directive 2010/75/EU** of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control)





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Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC

Directive 2012/18/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC

EVESO Category

one

specified dangerous substances

see section 3.2 for the presence of substances included in Annex I, part 2.

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

the mixture does not contain an explosive precursor.

### 15.2 Chemical safety assessment

Chemical safety assessment for the mixture not foreseen. This safety data sheet contains one or more Exposure Scenarios in an integrated form. The content, where relevant, has been included in sections 1.2, 8, 9, 12, 15 and 16 of the same safety data sheet

## SECTION 16: Other information

### 16.1 Indication of any points of the SDS that have been revised

This sheet completely replaces all previous versions.

### 16.2 Key abbreviations and acronyms used in this SDS

APVR	Respiratory protective equipment	FPO	Operational protection factor
ATE	Acute Toxicity Estimates	GHS	Globally Harmonized System
BCF	Bioconcentration Factor	HP	Hazardous Properties
CAS	Chemical abstract service	IMO	International Maritime Organization
CE	European Community	ISO	International Standard Organization
CLP	Classification, Labelling and Packaging	LCSO	Median lethal concentration
COV	Volatile Organic Compounds	LD50	Median lethal dose
DNEL	Derived No Effect Level	N.A.S.	Not otherwise specified
DPI	Dispositivi di Protezione Individuale	NOEC	No observed effect concentration
EC	European Community	ONU	United Nations Organization
EC50	Half maximal effective concentration	PBT	Persistent, Bioaccumulative and Toxic Substances
ECHA	European Chemicals Agency	vPvB	Very Persistent and very Bioaccumulative substances
EEL	European Waste List	ppm	Parts per million
EmS	Emergency Schedules	PROC	Category of processes
EN	European normalization	REACH	Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals
ERC	Environmental release categories	STOT	Specific target organ toxicity
EUH	Supplemental hazard information	STP	Sewage treatment plant
EuPCS	European Product Categorisation System	UE	European Union
FPN	Protection factor Nominal	UFI	Unique Identifier of Formula
FFP	Filtering Facepiece	UNI	Italian Standard Organization

### 16.3 Full text of the Classification Information set out in Section 3

Description of the hazard class and category codes set out in section 3	Description of the hazard statements set out in section 3
Acute Tox. 3 - Acute toxicity (oral), Hazard Category 3	H301 - Toxic if swallowed
Acute Tox. 2 - Acute toxicity (dermal), Hazard Category 2	H310 - Fatal in contact with skin.
Acute Tox. 2 - Acute toxicity (inhal.), Hazard Category 2	H330 - Fatal if inhaled.
Skin Corr. 1C - Skin corrosion/irritation, Hazard Category 1, Sub-Categories 1C	H314 - Causes severe skin burns and eye damage
Skin Sens. 1A - Sensitisation - Skin, hazard category 1A	H317 - May cause an allergic skin reaction.
Eye Dam. 1 - Serious eye damage/eye irritation, Hazard Category 1	H318 - Causes serious eye damage
Aquatic Acute 1 - Hazardous to the aquatic environment - Acute Hazard, Category 1	H400 - Very toxic to aquatic life.
Aquatic Chronic 1 - Hazardous to the aquatic environment - Chronic Hazard, Category 1	H410 - Very toxic to aquatic life with long lasting effects

### Suppl. Hazard statement set out in section 3

EUH071 - Corrosive to the respiratory tract

M-Factor

Multiplier factor that applies to substances hazardous to the aquatic environment acute or chronic category 1

Notes related to the identification, classification and labeling of substances defined in Annex VI of CLP

Nota B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

### 16.4 Bibliographical references and main data sources

ECHA	European Chemicals Agency	OSHA	European Agency for Safety and Health at Work	IARC	International Agency for Research on Cancer
TOXNET	Toxicology Data Network	WHO	World Health Organization	ACGIH	American Conference of Governmental Industrial Hygienists
ChemSIST	Chemical Lists Information System	ICSCs	International Chemical Safety Cards	ILO	International Labour Organization
IPCS	International Programme on Chemical Safety (Cards)	NIOSH	Registry of toxic effects of chemical substances (1983)	IFA	Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung

### 16.5 Normative references and / or documents (from which the data in section 8.1 derive)

Code (1)	State	Bibliography / documents --> LINK
AUS	Australia	<a href="https://www.dguv.de/ifa/limit-values-australia/index-2.jsp">https://www.dguv.de/ifa/limit-values-australia/index-2.jsp</a> <a href="https://engage.swa.gov.au/workplace-exposure-standards-review">https://engage.swa.gov.au/workplace-exposure-standards-review</a>
AUT	Austria	<a href="https://www.safeworks.australia.gov.au/exposure-standards/exposure-standards-in-australia">https://www.safeworks.australia.gov.au/exposure-standards/exposure-standards-in-australia</a> <a href="https://www.judline.at/pesetz/ekv_2011">https://www.judline.at/pesetz/ekv_2011</a>
BEL	Belgium	<a href="https://www.dguv.de/ifa/limit-values-austria/index-2.jsp">https://www.dguv.de/ifa/limit-values-austria/index-2.jsp</a> <a href="https://www.ris.bka.gv.at/GeltendeFassung.wxe?Abfrage=Bundesnormen&amp;Gesetzesnummer=20001418">https://www.ris.bka.gv.at/GeltendeFassung.wxe?Abfrage=Bundesnormen&amp;Gesetzesnummer=20001418</a>
BGR	Bulgaria	<a href="https://www.dguv.de/ifa/limit-values-belgium/index-2.jsp">https://www.dguv.de/ifa/limit-values-belgium/index-2.jsp</a> <a href="https://employment.belgium.be/en">https://employment.belgium.be/en</a>
CAN	Canada-Ontario	<a href="https://pirogov.eu/bg/">https://pirogov.eu/bg/</a> <a href="https://www.dguv.de/ifa/limit-values-canada-ontario/index-2.jsp">https://www.dguv.de/ifa/limit-values-canada-ontario/index-2.jsp</a> <a href="https://www.labour.gov.on.ca/english/hs/pubs/oel_table.php">https://www.labour.gov.on.ca/english/hs/pubs/oel_table.php</a>
CAN	Canada-Québec	<a href="https://www.dguv.de/ifa/limit-values-canada-quebec/index-2.jsp">https://www.dguv.de/ifa/limit-values-canada-quebec/index-2.jsp</a> <a href="http://legisquebec.gouv.qc.ca/fr/showdoc/cr/5-">http://legisquebec.gouv.qc.ca/fr/showdoc/cr/5-</a>
CYP	Cyprus	<a href="http://www.cst.qc.ca/Pages/index.aspx">http://www.cst.qc.ca/Pages/index.aspx</a> <a href="http://www.mli.gov.cy/">http://www.mli.gov.cy/</a>
CAE	Czech Republic	<a href="https://www.msc-cr/">https://www.msc-cr/</a>
HRV	Croatia	<a href="https://www.hrt.hr">https://www.hrt.hr</a>
DNK	Denmark	<a href="https://www.dguv.de/ifa/limit-values-denmark/index-2.jsp">https://www.dguv.de/ifa/limit-values-denmark/index-2.jsp</a> <a href="https://www.retsinformation.dk/eli/tra/2019/1458">https://www.retsinformation.dk/eli/tra/2019/1458</a>
EST	Estonia	<a href="http://www.16662.ee/">http://www.16662.ee/</a>
EU(2)	European Union	<a href="https://www.dguv.de/ifa/limit-values-european-union/index-2.jsp">https://www.dguv.de/ifa/limit-values-european-union/index-2.jsp</a> <a href="https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:319980024">https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:319980024</a>
FIN	Finland	<a href="https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:320040037">https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:320040037</a> <a href="https://www.dguv.de/ifa/limit-values-finland/index-2.jsp">https://www.dguv.de/ifa/limit-values-finland/index-2.jsp</a> <a href="https://tulkaist.valtionosasto.fi/handle/10024/160967">https://tulkaist.valtionosasto.fi/handle/10024/160967</a>
FRA	France	<a href="https://www.dguv.de/ifa/limit-values-france/index-2.jsp">https://www.dguv.de/ifa/limit-values-france/index-2.jsp</a> <a href="https://www.anses.fr/fr">https://www.anses.fr/fr</a>
DEU	Germany (AGS)	<a href="http://www.inns.fr/accueil/dms/inns/CataloguePapier/ED/TI-ED-984/ed984.pdf">http://www.inns.fr/accueil/dms/inns/CataloguePapier/ED/TI-ED-984/ed984.pdf</a> <a href="https://www.dguv.de/ifa/limit-values-germany-lags/index-2.jsp">https://www.dguv.de/ifa/limit-values-germany-lags/index-2.jsp</a> <a href="https://www.baua.de/DE/Regelwerk/TRGS/pdf/TRGS-900.pdf">https://www.baua.de/DE/Regelwerk/TRGS/pdf/TRGS-900.pdf</a>





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Previous review date: - -

DEU	Germany (DFG)	<a href="https://www.dguv.de/ifa/limit-values-germany-(dfg)/index-2.jsp">https://www.dguv.de/ifa/limit-values-germany-(dfg)/index-2.jsp</a>	<a href="https://www.dfg.de/en/dfa_profile/health_hazards/index.html">https://www.dfg.de/en/dfa_profile/health_hazards/index.html</a>
GRC	Greece	<a href="https://www.dfg.de/dfa_profile/premises/senat/arbeitsstoffe/publikationen/index.html">https://www.dfg.de/dfa_profile/premises/senat/arbeitsstoffe/publikationen/index.html</a>	
HUN	Hungary	<a href="https://www.gcsr.gr/">https://www.gcsr.gr/</a>	
ISL	Iceland	<a href="https://www.dguv.de/ifa/gestis/gestis-internationale-grenzwerte-fuer-chemische-substanzen-limit-values-for-chemical-agents/limit-values-hungary/index-2.jsp">https://www.dguv.de/ifa/gestis/gestis-internationale-grenzwerte-fuer-chemische-substanzen-limit-values-for-chemical-agents/limit-values-hungary/index-2.jsp</a>	
IRL	Ireland	<a href="https://www.dguv.de/ifa/limit-values-ireland/index-2.jsp">https://www.dguv.de/ifa/limit-values-ireland/index-2.jsp</a>	<a href="https://www.usa.ie/en/2016/CodePracticeChemicalAgentsRegulations/">https://www.usa.ie/en/2016/CodePracticeChemicalAgentsRegulations/</a>
ITA	Italy	<a href="https://www.dguv.de/ifa/limit-values-italy/index-2.jsp">https://www.dguv.de/ifa/limit-values-italy/index-2.jsp</a>	<a href="http://www.preparatipericolosi.it">http://www.preparatipericolosi.it</a>
JPN	Japan (MHLW)	<a href="https://www.dguv.de/ifa/limit-values-japan/index-2.jsp">https://www.dguv.de/ifa/limit-values-japan/index-2.jsp</a>	<a href="https://www.mhlw.go.jp/english/index.html">https://www.mhlw.go.jp/english/index.html</a>
JPN	Japan (JSOH)	<a href="https://www.dguv.de/ifa/limit-values-japan-jsoh/index-2.jsp">https://www.dguv.de/ifa/limit-values-japan-jsoh/index-2.jsp</a>	<a href="https://www.sanei.or.jp/">https://www.sanei.or.jp/</a>
LVA	Latvia	<a href="https://www.dguv.de/ifa/limit-values-latvia/index-2.jsp">https://www.dguv.de/ifa/limit-values-latvia/index-2.jsp</a>	<a href="https://likumi.lv/doc.php?id=157382&amp;from=off">https://likumi.lv/doc.php?id=157382&amp;from=off</a>
LTU	Lithuania	<a href="http://www.gamta.lt/">http://www.gamta.lt/</a>	
LUX	Luxembourg	<a href="http://www.ms.public.lu/fr/">http://www.ms.public.lu/fr/</a>	
MLT	Malta	<a href="https://mcca.org.mt/">https://mcca.org.mt/</a>	
NZL	New Zealand	<a href="https://www.dguv.de/ifa/limit-values-new-zealand/index-2.jsp">https://www.dguv.de/ifa/limit-values-new-zealand/index-2.jsp</a>	<a href="https://worksafe.govt.nz/work-health/-std-biol-exposure-indices/">https://worksafe.govt.nz/work-health/-std-biol-exposure-indices/</a>
NOR	Norway	<a href="http://www.miliodirektoratet.no/">http://www.miliodirektoratet.no/</a>	<a href="https://www.fhi.no/en/">https://www.fhi.no/en/</a>
CHN	People's Republic of China	<a href="https://www.dguv.de/ifa/limit-values-china/index-2.jsp">https://www.dguv.de/ifa/limit-values-china/index-2.jsp</a>	<a href="http://www.nhpc.gov.cn/zhuizhi/200704/38838.shtml">http://www.nhpc.gov.cn/zhuizhi/200704/38838.shtml</a>
POL	Poland	<a href="https://www.dguv.de/ifa/limit-values-poland/index-2.jsp">https://www.dguv.de/ifa/limit-values-poland/index-2.jsp</a>	<a href="http://www.ciop.pl/">http://www.ciop.pl/</a>
PRT	Portugal	<a href="http://www.inem.pt/ciav/">http://www.inem.pt/ciav/</a>	
ROU	Romania	<a href="https://www.dguv.de/ifa/limit-values-romania/index-2.jsp">https://www.dguv.de/ifa/limit-values-romania/index-2.jsp</a>	<a href="http://www.mmuncii.ro/_P5114-11042018_modif_HG-1218_Ag_chimici.pdf">http://www.mmuncii.ro/_P5114-11042018_modif_HG-1218_Ag_chimici.pdf</a>
SGP	Singapore	<a href="https://www.dguv.de/ifa/limit-values-singapore/index-2.jsp">https://www.dguv.de/ifa/limit-values-singapore/index-2.jsp</a>	<a href="https://sso.aec.gov.sg/Act/WSHA2006">https://sso.aec.gov.sg/Act/WSHA2006</a>
SVK	Slovakia	<a href="http://www.ntic.sk/">http://www.ntic.sk/</a>	
SVN	Slovenia	<a href="http://www.uk.gov.si/">http://www.uk.gov.si/</a>	
KOR	South Korea	<a href="https://www.dguv.de/ifa/limit-values-south-korea/index-2.jsp">https://www.dguv.de/ifa/limit-values-south-korea/index-2.jsp</a>	<a href="http://www.kiha.kr/main/community_view.htm?uid=763&amp;tbl=gong&amp;page=3">http://www.kiha.kr/main/community_view.htm?uid=763&amp;tbl=gong&amp;page=3</a>
ESP	Spain	<a href="https://www.dguv.de/ifa/limit-values-spain/index-2.jsp">https://www.dguv.de/ifa/limit-values-spain/index-2.jsp</a>	<a href="https://www.insst.es/">https://www.insst.es/</a>
SWE	Sweden	<a href="https://www.dguv.de/ifa/limit-values-sweden/index-2.jsp">https://www.dguv.de/ifa/limit-values-sweden/index-2.jsp</a>	<a href="https://www.av.se/_hygieniska-gransvardnen-afs-20181-foreskrifter/">https://www.av.se/_hygieniska-gransvardnen-afs-20181-foreskrifter/</a>
CHE	Switzerland	<a href="https://www.dguv.de/ifa/limit-values-switzerland/index-2.jsp">https://www.dguv.de/ifa/limit-values-switzerland/index-2.jsp</a>	<a href="http://suissepro.org/">http://suissepro.org/</a>
NLD	The Netherlands	<a href="https://www.dguv.de/ifa/limit-values-the-netherlands/index-2.jsp">https://www.dguv.de/ifa/limit-values-the-netherlands/index-2.jsp</a>	<a href="https://www.ser.nl/en">https://www.ser.nl/en</a>
TUR	Turkey	<a href="https://www.dguv.de/ifa/limit-values-turkey/index-2.jsp">https://www.dguv.de/ifa/limit-values-turkey/index-2.jsp</a>	
USA	USA - NIOSH	<a href="https://www.dguv.de/ifa/limit-values-usa-niosh/index-2.jsp">https://www.dguv.de/ifa/limit-values-usa-niosh/index-2.jsp</a>	<a href="https://www.cdc.gov/niosh/">https://www.cdc.gov/niosh/</a>
USA	USA - OSHA	<a href="https://www.dguv.de/ifa/limit-values-usa-osha/index-2.jsp">https://www.dguv.de/ifa/limit-values-usa-osha/index-2.jsp</a>	<a href="http://www.osha.gov">www.osha.gov</a>
GBR	United Kingdom	<a href="https://www.dguv.de/ifa/limit-values-united-kingdom/index-2.jsp">https://www.dguv.de/ifa/limit-values-united-kingdom/index-2.jsp</a>	<a href="https://www.hse.gov.uk/research/hsr/pdf/2002/hal02-23.pdf">https://www.hse.gov.uk/research/hsr/pdf/2002/hal02-23.pdf</a>

(1) ISO 1366-1 alpha-3 (2) NO ISO CODE

### 16.6 Procedures used to derive classification under Regulation (EC)1272/2008 [CLP] in relation to mixtures

Classification according to Regulation (EC) No. 1272/2008	Classification procedure
All the classification criteria have been examined, defining the non-classification of the mixture according to Regulation 1272/2008	

### 16.7 Any appropriate training courses for workers in order to ensure the protection of human health and the environment

- Training course on the management and interpretation of the SDS
- ADR training for personnel involved in handling
- Training on the use of PPE

#### More information

Safety Data Sheet compliant with regulation (EU) n. 2020/878 of 18 June 2020

This document has been drawn up by a competent SDS technician who has received adequate training and is certified according to the reference practice UNI / PdR 60: 2019. Certificate issued by INTERTEK ITALIA S.p.A. Registration number: RSDS2020-00162 exp. 28-May-2025

The information in this safety data sheet has been obtained from the best available or known to us on the market at the revision date indicated. Neither the company holding this sheet nor its subsidiaries will be able to accept complaints arising from improper use of the information indicated here or from improper use in applying the product. Pay particular attention to the use of preparations because improper use can increase their danger.

END OF SAFETY DATA SHEET