



MATERIAL SAFETY DATA SHEET

FOGLIARE ORCHIDEE

Current review date: 31/03/2023

Current review: 00

Previous review date: - - - - -

Previous review date: - -

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

1.1 Product identifier

Commercial name : FOGLIARE ORCHIDEE Y301002
 UFI : Non applicable
 Registration code : Non applicable
 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 advises 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 applicable

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)	Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	Factors, Acute Toxicity Estimates (ATE)	Specific Concentration limits, M-	Notes
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 Irrit. 2; H315: 0,06 % ≤ C < 0,6 % Skin Sens. 1A: C ≥ 0,0015 % M (Acute) = 100 M (Chronic) = 100	Eye Dam. 1: C ≥ 0,6 % Eye Irrit. 2; H319: 0,06 % ≤ 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



MATERIAL SAFETY DATA SHEET

FOGLIARE ORCHIDEE

Current review date: 31/03/2023

Current review: 00

Previous review date: -/-/-/-

Previous review date: --

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, CO₂, 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)

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.

How to control the effects of:

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

Nothing to report

Nothing to report

Store at room temperature



MATERIAL SAFETY DATA SHEET

FOGLIARE ORCHIDEE

Current review date: 31/03/2023	Current review: 00	Previous review date: -/-/-/-	Previous review date: --
---------------------------------	--------------------	-------------------------------	--------------------------

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

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			
GESTIS International Limit Values				
	ppm	mg/m ³	ppm	mg/m ³
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			
Link DNEL value	--			
DNEL (Workers)				
	Systemic	Local		
	Long term	Short term	Long term	Short term
Inhalation	Not available	Not available	Inhalation	Not available
Dermal	Not available	Not available	Dermal	Not available
Oral	Not available	Not available	Oral	Not available
Eyes	Not available	Not available	Eyes	Not available
DNEL (Population)				
	Systemic	Local		
	Long term	Short term	Long term	Short term
Inhalation	Not available	Not available	Inhalation	Not available
Dermal	Not available	Not available	Dermal	Not available
Oral	Not available	Not available	Oral	Not available
Eyes	Not available	Not available	Eyes	Not available
PNEC				
Freshwater	Not available	Intermittent	Not available	Marine water
STP	Not available	Sediment (freshwater)	Not available	Sediment (marine water)
Air	Not available	Soil	Not available	Hazard for predators

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			
		RISK CHARACTERISTICS	PROTECTION		
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		Eyeglasses	Glasses with side shields	Mask glasses
	Frontal sketches	Good	Good	Excellent	
	Side sketches	Scarso	Good	Excellent	
	Frontal splinters	Excellent	Good	Excellent if of adequate thickness	
	Side impacts	Scant	Fairly good	Excellent	
	Neck and face protection	Scant	Scant	Fairly good	
	Wearability	Good / Very good	Good	Fairly good	
	Continuous use	Very good	Very 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.



MATERIAL SAFETY DATA SHEET

FOGLIARE ORCHIDEE

Current review date: 31/03/2023

Current review: 00

Previous review date: -/-/-/-

Previous review date: --

b) SKIN PROTECTION

i) Hand protection

PITTOGRAM	PPE	METHOD OF CHOOSING THE PPE			
		CHEMICAL PROTECTION			
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>	Type	Level	Time	Substances
		A	2	30 minutes	minimum 6
		B	2	30 minutes	minimum 3
		C	1	10 minutes	minimum 1
		MATERIALS FOR PROTECTION FROM CHEMICAL AGENTS			
		Highlights	LATEX	NEOPRENE	NITRILE
			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
		Precautions	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

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			
		DANGER	Full coverage garment	Partial coverage garment	Waterproof
Work clothing	<p>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</p>		Waterproof	Permeable to air	Permeable to air
	Gas and fumes	A	NO	NO	
	Jets of liquids	A	NO	P	
	Splashes and splashes	A	P	P	
	Dust	A	A	P	
NO: Indicates that the possibility is not compatible - A: suitable combination - P: combination that depends on external conditions					
<p>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.</p>					

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			
		DUST FILTERS			
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 O₂ 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 FPO 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>	Efficiency	Dust class	RPD class and marking	Minimum total filtering efficiency
		LOW	Filters P1	Respirators FFP1	78%
		AVERAGE	Filters P2	Respirators FFP2	92%
		HIGH	Filters P3	Respirators FFP3	98%
		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		DUST FILTER RESPIRATORS			
Type of substance	Correct choice of filter type	Filter respirator		NPF	OPF
Concentrations	Need / opportunity to protect other parts of the face (eyes - face)	Facial Filter FFP1 Half mask + P1		4	4
Visibility	Filter capacity in relation to exposure time	Facial Filter FFP2 Half mask + P2		12	10
Freedom of movement	Reduction of weight and discomfort	Facial Filter FFP3 Half mask + P3		50	30
Facial anatomy	Mask adequacy	Full face + P1		5	4
Environmental conditions		Full face + P2		20	15
		Full face + P3		1000	400



MATERIAL SAFETY DATA SHEET

FOGLIARE ORCHIDEE

Current review date: 31/03/2023

Current review: 00

Previous review date: - - / - / -

Previous review date: - -

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
	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.	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. 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.

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 explosive 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



MATERIAL SAFETY DATA SHEET

FOGLIARE ORCHIDEE

Current review date: 31/03/2023

Current review: 00

Previous review date: -/-/-/-

Previous review date: --

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)

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

ORALE

Rat LD50: 457 mg/kg bw

INALATORIA

Rat LC50 1.23 mg/m³ air

DERMICA

Rabbit LD50: 660 mg/kg bw

NOTE

--

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	Species	Oncorhynchus mykiss	Guideline
LC50 – fish	96h - 0.19 mg/L	Species	Daphnia magna	Guideline
EC50 – aquatic invertebrates	48h - 0.16 mg/L	Species	Skeletonema costatum	Guideline: OECD201
EC50 - algae and cyanobacteria	72h - 0.037 mg/L	Species	--	Guideline: --
NOEC Cronica fish	--	Species	--	Guideline: --
NOEC Cronica aquatic invertebrates	--	Species	--	Guideline: --
NOEC Cronic 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

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

SDS_878.PHI.EN.01-16V1_FOGLIDEE_1.08_230331

Pag. 6 di 9



MATERIAL SAFETY DATA SHEET

FOGLIARE ORCHIDEE

Current review date: 31/03/2023

Current review: 00

Previous review date: -/-/-/-

Previous review date: --

12.3 Bioaccumulative potential

Data not available for the mixture.

Bioaccumulation 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
Partition coefficient: octanol/water :	Log Kow (Log Pow): 0.75
BCF :	--

12.4 Mobility in soil

Data not available for the mixture.

Mobility information in soil 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

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)



MATERIAL SAFETY DATA SHEET

FOGLIARE ORCHIDEE

Current review date: 31/03/2023

Current review: 00

Previous review date: - - / - - -

Previous review date: - -

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 subsequent repealing Council Directive 96/82/EC

EVESO Category

one

specified dangerous substances

in 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 as 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	LC50	Median lethal concentration
COV	Volatile Organic Compounds	LD50	Median lethal dose
DINEL	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
ER	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

Acute Tox. 3 - Acute toxicity (oral), Hazard Category 3

Acute Tox. 2 - Acute toxicity (dermal), Hazard Category 2

Acute Tox. 2 - Acute toxicity (inhal.), Hazard Category 2

Skin Corr. 1C - Skin corrosion/irritation, Hazard Category 1, Sub-Categories 1C

Skin Sens. 1A - Sensitisation — Skin, hazard category 1A

Eye Dam. 1 - Serious eye damage/eye irritation, Hazard Category 1

Aquatic Acute 1 - Hazardous to the aquatic environment — AcuteHazard, Category 1

Aquatic Chronic 1 - Hazardous to the aquatic environment — Chronic Hazard, Category 1

Description of the hazard statements set out in section 3

H301 - Toxic if swallowed

H310 - Fatal in contact with skin.

H330 - Fatal if inhaled.

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage

H400 - Very toxic to aquatic life.

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

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

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

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
CheList	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	https://www.dguv.de/ifa/.../limit-values-australia/index-2.jsp https://www.safeworkaustralia.gov.au/exposure-standards/Exposure-standards-in-australia
AUT	Austria	https://www.dguv.de/ifa/.../limit-values-austria/index-2.jsp https://www.judine.at/gesetz/gkv_2011
BEL	Belgium	https://www.dguv.de/ifa/.../limit-values-belgium/index-2.jsp https://employment.belgium.be/en
BGR	Bulgaria	https://progov.eu/bg/
CAN	Canada-Ontario	https://www.dguv.de/ifa/.../limit-values-canada-ontario/index-2.jsp https://www.labour.gov.on.ca/english/hs/pubs/oel_table.php
CAN	Canada-Québec	https://www.dguv.de/ifa/.../limit-values-canada-quebec/index-2.jsp http://legisquebec.gouv.qc.ca/fr/showdoc/cr/5...
CYP	Cyprus	http://www.msl.gov.cy/
CAE	Czech Republic	https://www.mncr.cz/
HRV	Croatia	https://www.hrt.hr
DNK	Denmark	https://www.dguv.de/ifa/.../limit-values-denmark/index-2.jsp https://www.ctesinformation.dk/eli/ita/2019/1458
EST	Estonia	http://www.16662.ee/ https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:320040037
EUF	European Union	https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=15233725860438&uri=CELEX:320040037
FIN	Finland	https://www.dguv.de/ifa/.../limit-values-finland/index-2.jsp https://julkaisut.valtioneuvosto.fi/handle/10024/160967
FRA	France	https://www.dguv.de/ifa/.../limit-values-france/index-2.jsp https://www.anses.fr/fr
DEU	Germany (AGS)	https://www.dguv.de/ifa/.../limit-values-germany-(ags)/index-2.jsp https://www.baua.de/DE/.../Regelwerk/TRGS/pdf/TRGS-900.pdf



MATERIAL SAFETY DATA SHEET

FOGLIARE ORCHIDEE

Current review date: 31/03/2023		Current review: 00	Previous review date: - -/-/-	Previous review date: - -
DEU	Germany (DFG)	https://www.dguv.de/ifa/limit-values-germany-dfg/index-2.jsp	https://www.dfg.de/en/dfg_profile/.../health_hazards/index.html	
GRC	Greece	https://www.dfg.de/ifa/profil/premiensenat/arbeitstoffe/publikationen/index.html		
HUN	Hungary	https://www.dguv.de/ifa/gestis/gestis-internationale-grenzwerte-fuer-chemische-substanzen-limit-values-for-chemical-agents/index-2.jsp		
ISL	Iceland	https://www.usi.is/the-environment-agency-of-iceland/chemicals/		
IRL	Ireland	https://www.dguv.de/ifa/limit-values-ireland/index-2.jsp		
ITA	Italy	https://www.dguv.de/ifa/limit-values-italy/index-2.jsp		
JPN	Japan (MHLW)	https://www.dguv.de/ifa/limit-values-japan/index-2.jsp		
JPN	Japan (JSOH)	https://www.dguv.de/ifa/limit-values-japan-isoh/index-2.jsp		
LVA	Latvia	https://www.dguv.de/ifa/limit-values-latvia/index-2.jsp		
LTU	Lithuania	https://www.gamta.lt/		
LUX	Luxembourg	https://www.ms-public.lu/fr/		
MLT	Malta	https://mccaa.org.mt/		
NZL	New Zealand	https://www.dguv.de/ifa/limit-values-new-zealand/index-2.jsp		https://worksafe.govt.nz/_work-health/_std-biol-exposure-indices/
NOR	Norway	https://www.miliodirektoratet.no/		https://www.fhi.no/en/
CHN	People's Republic of China	https://www.dguv.de/ifa/limit-values-china/index-2.jsp		http://www.nhpc.gov.cn/zhuz/pzl/200704/38838.shtml
POL	Poland	https://www.dguv.de/ifa/limit-values-poland/index-2.jsp		http://www.ciopt.pl/
PRT	Portugal	https://www.inem.pt/clav/		http://www.mmmuncii.ro/_/5114-11042018_modif_HG-1218_Ag_chimici.pdf
ROU	Romania	https://www.dguv.de/ifa/limit-values-romania/index-2.jsp		https://sso.agc.gov.sg/Act/WSHA2006
SGP	Singapore	https://www.dguv.de/ifa/limit-values-singapore/index-2.jsp		
SVK	Slovakia	https://www.nvic.sk/		
SVN	Slovenia	https://www.uk.gov.si/		
KOR	South Korea	https://www.dguv.de/ifa/limit-values-south-korea/index-2.jsp		http://www.kiha.kr/main/community_view.htm?id=763&tbn=gong&page=3
ESP	Spain	https://www.dguv.de/ifa/limit-values-spain/index-2.jsp		https://www.instes.es/
SWE	Sweden	https://www.dguv.de/ifa/limit-values-sweden/index-2.jsp		https://www.av.se/_hygieniska-gransvarden-afs-20181-fore-skifter/
CHE	Switzerland	https://www.dguv.de/ifa/limit-values-switzerland/index-2.jsp		http://suissepro.org/
NLD	The Netherlands	https://www.dguv.de/ifa/limit-values-the-netherlands/index-2.jsp		https://www.ser.nl/en
TUR	Turkey	https://wetten.overheid.nl/BWBR00008587/2017-07-01#BilagexIII		
USA	USA - NIOSH	https://www.dguv.de/ifa/limit-values-usa-niosh/index-2.jsp		https://www.cdc.gov/niosh/
USA	USA - OSHA	https://www.dguv.de/ifa/limit-values-usa-osha/index-2.jsp		www.osha.gov
GBR	United Kingdom	https://www.dguv.de/ifa/limit-values-united-kingdom/index-2.jsp		https://www.hse.gov.uk/research/hsl_pdf/2002/hsl02-23.pdf

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: RSD52020-00162 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