

	VALPAINT S.P.A.	Revision nr. 5.0
		Revision date 12/01/2026
	JUNGLE KIT GIRAFFA	Replaced revision: 4.0
		EN - English

Information Sheet

Compliant with the safety data sheet format defined in Ann. II to the REACH Reg., but not required by art. 31

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

1.1 Product identifier

Item code	SP1Duplex4
Product name	JUNGLE KIT GIRAFFA

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

Identified uses
DECORATIVE PAINTS AND PAINTS – Consumer uses
Chemical Product Category (PC)
Adhesives, sealants [1]
Coatings and paints, thinners, paint removers [9a]
Fillers, putties, plasters, modelling clay [9b]
Life cycle stage (LCS)
Consumer use [C]
Process categories (PROC)
Non industrial spraying [11]
Roller application or brushing [10]
DECORATIVE PAINTS AND PAINTS – Professional uses
Chemical Product Category (PC)
Adhesives, sealants [1]
Coatings and paints, thinners, paint removers [9a]
Fillers, putties, plasters, modelling clay [9b]
Life cycle stage (LCS)
Widespread use by professional workers [PW]
Process categories (PROC)
Industrial spraying [7]
Non industrial spraying [11]
Roller application or brushing [10]
Transfer of substance or mixture (charging and discharging) at dedicated facilities [8b]
Transfer of substance or mixture (charging and discharging) at non- dedicated facilities [8a]
Transfer of substance or mixture into small containers (dedicated filling line, including weighing) [9]
Supplementary descriptor: Sectors of end-use
Formulation [mixing] of preparations and/or re-packaging (excluding alloys) [10]

1.3 Details of the supplier of the Information Sheet

Business name	VALPAINT S.P.A.
Full address	Via dell'Industria, 80
Town	POLVERIGI
Postal code	60020
Province	AN
Country	Italy
Phone number	+39 071 906383 (r.a.)
Fax	+39 071 906384
e-mail address of the competent person responsible for the Information Sheet	laboratorio@valpaint.it

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Section 1

1.4 Emergency telephone number

For urgent inquiries refer to	CAV "Ospedale Pediatrico Bambino Gesù" – Roma Tel. (+39) 06.6859.3726 CAV "Azienda Ospedaliera Università di Foggia" – Foggia Tel. 800.183.459 CAV "Azienda Ospedaliera A. Cardarelli" – Napoli Tel. (+39) 081.545.3333 CAV Policlinico "Umberto I" – Roma Tel. (+39) 06.4997.8000 CAV Policlinico "A. Gemelli" – Roma Tel. (+39) 06.305.4343 CAV Azienda Ospedaliera "Careggi" U.O. Tossicologia Medica – Firenze Tel. (+39) 055.794.7819 CAV Centro Nazionale di Informazione Tossicologica – Pavia Tel. (+39) 0382.24.444 CAV Ospedale Niguarda – Milano Tel. (+39) 02.66.1010.29 CAV Azienda Ospedaliera Papa Giovanni XXIII – Bergamo Tel. 800.88.33.00 CAV Centro Antiveleni Veneto – Verona Tel. 800.011.858 Spagna: Numero di emergenza sediti: 915620420 Slovacchia: NTIC: +421 2 5477 4166, 421 911 166 066 Repubblica ceca: Tis: Na bojišti 1, 120 00, praha +420224 919 293, +420 224 915 402 Germania: Universitätsmedizin Göttingen, 0551-19240 o dall'estero, +49 551-19240 GiftInformationszentrum-Nord
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2 Hazards identification

2.1 Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2020/878.

Hazard classification
None

2.2 Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms
None

Signal word
None

Hazard statements
None

Precautionary statements
None

Section 2

Supplementary hazard statements

EUH208	Contains Mixture of: 5-chloro-2-methyl-2H-Isathiazol-3-One (EC No.247-500-7)/2-Methyl-2H-Isathiazol-3-One (EC No.220-239-6) (3: 1) – Benzisothiazol-3(2h)-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

VOC (Directive 2004/42/EC)

Decorative effect coatings.

Volatile organic compounds - ready to use	140 g/l
VOC subcategory limit	200 g/l

2.3 Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ than 0,1%.
The product does not contain substances with endocrine disrupting properties in concentration $\geq$ 0.1%.

3 Composition/information on ingredients

3.2 Mixtures

METHANOL

Concentration	$0.284 \leq x < 0.314 \%$
CAS number	67-56-1
EC number	200-659-6
INDEX number	603-001-00-X
Hazard classification	- Flam. Liq. 2; H225 - Acute Tox. 3; H301 - Acute Tox. 3; H311 - Acute Tox. 3; H331 - STOT SE 1; H370
Specific concentration limits	STOT SE 2; H371: $\geq 3 \%$
ATE (Oral)	100 mg/kg
ATE (Dermal)	300 mg/kg
ATE (Inhalation - vapours)	3 mg/l
Substance with a community workplace exposure limit.	

Benzisothiazol-3(2h)-one

Concentration	$0.0189 \leq x < 0.0209 \%$
CAS number	2634-33-5
EC number	220-120-9
INDEX number	613-088-00-6
Hazard classification	- Acute Tox. 4; H302 - Skin Irrit. 2; H315 - Skin Sens. 1; H317 - Eye Dam. 1; H318 - Acute Tox. 2; H330 - Aquatic Acute 1; H400 - Aquatic Chronic 1; H410
M Factor (acute)	1
M Factor (chronic)	1
Specific concentration limits	Skin Sens. 1; H317: $\geq 0.036 \%$
Additional classification	EUH208

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Section 3

Mixture of: 5-chloro-2-methyl-2H-Isathiazol-3-One (EC No.247-500-7)/2-Methyl-2H-Isathiazol-3-One (EC No.220-239-6) (3: 1)

Concentration	0.00132 ≤ x < 0.00146 %
CAS number	55965-84-9
INDEX number	613-167-00-5
Hazard classification	▪ Acute Tox. 3; H301 ▪ Acute Tox. 2; H310 ▪ Skin Corr. 1; H314 ▪ Skin Sens. 1A; H317 ▪ Eye Dam. 1; H318 ▪ Acute Tox. 2; H330 ▪ Aquatic Acute 1; H400 ▪ Aquatic Chronic 1; H410
M Factor (acute)	100
M Factor (chronic)	100
Specific concentration limits	▪ Skin Sens. 1A; H317: ≥ 0.0015 % ▪ Skin Irrit. 2; H315: 0.06 ≤ x < 0.6 % ▪ Skin Corr. 1; H314: ≥ 0.6 % ▪ Eye Irrit. 2; H319: 0.06 ≤ x < 0.6 % ▪ Eye Dam. 1; H318: ≥ 0.6 %
Classification note according to Annex VI to the CLP Regulation:	B
Additional classification	EUH071

The full wording of hazard (H) phrases is given in section 16 of the sheet.

4 First aid measures

4.1 Description of first aid measures

No effects requiring implementation of special first aid measures are expected. The following information represents practical indications of correct behaviour in the event of contact with a chemical product, even if not hazardous.

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice.

Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. Get medical advice/attention.

Rescuers protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3 Indication of any immediate medical attention and special treatment needed

If symptoms occur, whether acute or delayed, consult a doctor.

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Section 4

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

5 Firefighting measures

5.1 Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2 Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3 Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

6.2 Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3 Methods and material for containment and cleaning up

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4 Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

7 Handling and storage

7.1 Precautions for safe handling

Before handling the product, consult all the other sections of this material information sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

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Section 7

7.2 Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany)

None

7.3 Specific end use(s)

Information not available.

8 Exposure controls/personal protection

8.1 Control parameters

Regulatory references

ACGIH	ACGIH 2023
European Union-OEL	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
Ireland-OELV	2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)
Malta-TLV	PROTECTION OF THE HEALTH AND SAFETY OF WORKERS FROM THE RISKS RELATED TO CHEMICAL AGENTS AT WORK REGULATIONS (S.L.424.24). PROTECTION OF WORKERS FROM THE RISKS RELATED TO EXPOSURE TO CARCINOGENS OR MUTAGENS AT WORK REGULATIONS (S.L.424.22)

METHANOL

	TWA		STEL		CEILING		Remarks
	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	
ACGIH	262	200	328	250			Skin
European Union-OEL	260	200					--
Ireland-OELV	260	200					Skin
Malta-TLV	260	200					Skin

Mixture of: 5-chloro-2-methyl-2H-Isathiazol-3-One (EC No.247-500-7)/2-Methyl-2H-Isathiazol-3-One (EC No.220-239-6) (3: 1)

Predicted no-effect concentration - PNEC

Normal value of STP microorganisms	0.23 mg/l
Normal value in fresh water	0.0039 mg/l
Normal value for fresh water sediment	0.027 mg/kg/d
Normal value in marine water	0.0039 mg/l
Normal value for marine water sediment	0.027 mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Local effect	Systemic effect
Consumers, long-term, inhalation	0.02 mg/m ³	No hazard identified
Consumers, long-term, oral	0.09 mg/kg bw/d	
Workers, short-term, dermal		No hazard identified
Workers, short-term, inhalation	0.04 mg/m ³	No hazard identified
Workers, long-term, dermal		No hazard identified
Workers, long-term, inhalation	0.02 mg/m ³	No hazard identified

Benzisothiazol-3(2h)-one

Predicted no-effect concentration - PNEC

Normal value of STP microorganisms	1.03 mg/l
Normal value in fresh water	0.00403 mg/l

Section 8

Predicted no-effect concentration - PNEC	
Normal value for fresh water sediment	0.05 mg/kg
Normal value in marine water	0.00043 mg/l
Normal value for marine water sediment	0.005 mg/kg
Normal value for the terrestrial compartment	3 mg/kg/d
Normal value for the food chain (secondary poisoning)	No hazard identified
Normal value for the atmosphere	No hazard identified

Health - Derived no-effect level - DNEL / DMEL	Local effect	Systemic effect
Consumers, short-term, dermal		No hazard identified
Consumers, short-term, inhalation	No hazard identified	No hazard identified
Consumers, short-term, oral		No exposure expected
Consumers, long-term, dermal		0.345 mg/kg bw/d
Consumers, long-term, inhalation	No hazard identified	1.2 mg/m ³
Consumers, long-term, oral		No exposure expected
Workers, short-term, dermal		No hazard identified
Workers, short-term, inhalation	No hazard identified	No hazard identified
Workers, long-term, dermal		0.966 mg/kg bw/d
Workers, long-term, inhalation	No hazard identified	6.81 mg/m ³

obtained, hydroformylation products of C8-alkenes, high boiling point

Predicted no-effect concentration - PNEC	
Normal value of STP microorganisms	100 mg/l
Normal value in fresh water	0.1 mg/l
Normal value in marine water	0.01 mg/l
Normal value for marine water sediment	400 mg/kg/d
Normal value for water, intermittent release	4,000 mg/l

Benzene, mono-C10-13-alkyl derivatives, distillation residues

Health - Derived no-effect level - DNEL / DMEL	Local effect	Systemic effect
Consumers, short-term, dermal	No hazard identified	
Consumers, short-term, oral	No hazard identified	No hazard identified
Consumers, long-term, dermal	No hazard identified	1.13 mg/kg bw/d
Consumers, long-term, oral	No hazard identified	225 mg/kg bw/d
Workers, short-term, dermal	No hazard identified	
Workers, short-term, inhalation	No hazard identified	No hazard identified
Workers, short-term, oral	No hazard identified	No hazard identified
Workers, long-term, dermal	No hazard identified	3.15 mg/kg bw/d
Workers, long-term, inhalation	No hazard identified	45 mg/m ³
Workers, long-term, oral	No hazard identified	45 mg/kg bw/d

8.2 Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

When choosing risk management measures and operating conditions, consult the exposure scenarios attached.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

Section 8

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	liquid	
Colour	white,neutral	
Odour	characteristic	
Melting point / freezing point	< 0 °C (< 32 °F)	
Initial boiling point	> 105 °C (> 221 °F)	
Flammability	miscela non infiammabile	
Lower explosive limit	miscela non esplosiva	
Upper explosive limit	miscela non esplosiva	
Flash point	> 61 °C (> 141.8 °F)	
Auto-ignition temperature	miscela non infiammabile	
Decomposition temperature	Not available	
pH	7 ≤ x ≤ 9	
Kinematic viscosity (40 °C)	Not available	
Dynamic viscosity	1,250 PI	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not available	
Density and/or relative density	1 kg/l	
Relative vapour density	Not available	

Particle characteristics

Information not available.

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Section 9

9.2 Other information

9.2.1 Information with regard to physical hazards

Information not available.

9.2.2 Other safety characteristics

Total solids 250°C	0 %	
VOC (Directive 2004/42/EC)	14 % – 140 g/l	

10 Stability and reactivity

10.1 Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2 Chemical stability

The product is stable in normal conditions of use and storage.

10.3 Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4 Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5 Incompatible materials

Information not available.

10.6 Hazardous decomposition products

Information not available.

11 Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

11.1.1 Metabolism, toxicokinetics, mechanism of action and other information

Information not available.

11.1.2 Information on likely routes of exposure

METHANOL

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

Section 11

11.1.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure**METHANOL**

The minimum lethal dose for humans by ingestion is considered to be in the range from 300 to 1000 mg/kg. Ingestion of 4-10 ml of the substance may cause permanent blindness in adult humans (IPCS).

11.1.4 Interactive effects

Information not available.

11.1.5 ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture	1,001.335 mg/l
ATE (Oral) of the mixture	33,377.837 mg/kg
ATE (Dermal) of the mixture	100,133.511 mg/kg

METHANOL

LC50 (Inhalation vapours):	> 87.6 mg/l	Exposure duration: 4 hours Species/guidelines: Rat
ATE (Oral)	100 mg/kg	estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
ATE (Dermal)	300 mg/kg	estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
ATE (Inhalation - vapours)	3 mg/l	estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

Mixture of: 5-chloro-2-methyl-2H-Isathiazol-3-One (EC No.247-500-7)/2-Methyl-2H-Isathiazol-3-One (EC No.220-239-6) (3: 1)

LD50 (Oral):	66 mg/kg	Species/guidelines: Mouse
LD50 (Dermal):	> 92.4 mg/kg	Species/guidelines: Mouse
LC50 (Inhalation mists/powders):	0.17 mg/l	Exposure duration: 4 hours Species/guidelines: Rat

Benzisothiazol-3(2h)-one

LD50 (Oral):	450 mg/kg	Species/guidelines: Rat
LC50 (Inhalation mists/powders):	0.21 mg/l	Exposure duration: 4 hours

Oral: ATE = 450mg/kg

Inhalation: ATE: 0.21 mg/l

11.1.6 SKIN CORROSION/IRRITATION

Does not meet the classification criteria for this hazard class

11.1.7 SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

11.1.8 RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Skin sensitization**Mixture of: 5-chloro-2-methyl-2H-Isathiazol-3-One (EC No.247-500-7)/2-Methyl-2H-Isathiazol-3-One (EC No.220-239-6) (3: 1)**

Sensitization OECD 406 (Guinea pig)

sensitizing - S 171 (b)

Section 11

Benzisothiazol-3(2h)-one

Sensitization OECD 429 (Mouse), sensitizing - S 523 (b)

11.1.9 GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

11.1.10 CARCINOGENICITY

Does not meet the classification criteria for this hazard class

11.1.11 REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

11.1.12 STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

11.1.13 STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

11.1.14 ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2 Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

12 Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1 Toxicity**Mixture of: 5-chloro-2-methyl-2H-Isathiazol-3-One (EC No.247-500-7)/2-Methyl-2H-Isathiazol-3-One (EC No.220-239-6) (3: 1)**

EC50 - for Crustacea	0.1 mg/l	Exposure duration: 48 hours Species/guidelines: Daphnia magna, 48h
LC50 - for Fish	0.22 mg/l	Exposure duration: 96 hours Species/guidelines: Oncorhynchus mykiss
EC50 - for Algae / Aquatic Plants	0.048 mg/l	Exposure duration: 72 hours Species/guidelines: Pseudokirchneriella subcapitata
Chronic NOEC for Fish	0.098 mg/l	Species/guidelines: oncorhynchus mykiss (trout iridea) /28d
Chronic NOEC for Crustacea	0.004 mg/l	Species/guidelines: Daphnia Magna, 21 days
Chronic NOEC for Algae / Aquatic Plants	0.0012 mg/l	Species/guidelines: Pseudokirchneriella subcapitata (green algae) / 72h

wastewater treatment:

OECD 302 B Zahn-Wellens Test 100 %

S 2387(b)

OECD 303 A: Activated Sludge Units > 80 %

S 199 (b)

Section 12

Benzisothiazol-3(2h)-one

EC50 - for Crustacea	3.27 mg/l	Exposure duration: 48 hours Species/guidelines: Daphnia magna
LC50 - for Fish	2.2 mg/l	Exposure duration: 96 hours Species/guidelines: Oncorhynchus mykiss
EC50 - for Algae / Aquatic Plants	0.11 mg/l	Exposure duration: 72 hours Species/guidelines: Selenastrum capricornutum
Chronic NOEC for Fish	0.21 mg/l	Species/guidelines: Oncorhynchus mykiss / 28d
Chronic NOEC for Crustacea	1.2 mg/l	Species/guidelines: Daphnia Magna, 21 days
Chronic NOEC for Algae / Aquatic Plants	0.04 mg/l	Species/guidelines: Selenastrum capricornutum

· Toxicity on activated sludge:

2634-33-5 1,2-benzisothiazol-3(2H)-one (BIT)

EC₅₀ / 3 h 13 mg/l (OECD 209)

S 2747

EC₂₀ / 3 h 3.3 mg/l (OECD 209)

S 2747

12.2 Persistence and degradability**METHANOL**

Solubility in water	1,000 ≤ x ≤ 10,000 mg/l
Degradability	Rapidly degradable

Mixture of: 5-chloro-2-methyl-2H-Isathiazol-3-One (EC No.247-500-7)/2-Methyl-2H-Isathiazol-3-One (EC No.220-239-6) (3: 1)

OECD 301 D Closed-Bottle-Test > 60 %

S 200 (b)

OECD 308 Simulation Biodegradation Aqu Sed System 1.82 - 1.92 d

S 617 (CIT)

Benzisothiazol-3(2h)-one

OECD 307 Aerobic and Anaerobic Transformation Soil 0.04 d

S 5025

12.3 Bioaccumulative potential**METHANOL**

Bioconcentration factor	0.2
Partition coefficient n-octanol/water	-0.77 LogKow

Mixture of: 5-chloro-2-methyl-2H-Isathiazol-3-One (EC No.247-500-7)/2-Methyl-2H-Isathiazol-3-One (EC No.220-239-6) (3: 1)

Bioconcentration factor	3.16
Partition coefficient n-octanol/water	< 0.71 LogKow

Bioconcentration factor BCF 3.16 (calculated)

S 1177

OECD 117 LogKow (HPLC Method) ≤ 0.71 (n-octanol/water)

S 5

Benzisothiazol-3(2h)-one

Bioconcentration factor	6.95
Partition coefficient n-octanol/water	0.71 LogKow

OECD 305 Bioconcentration factor 6.95 (Fish)

S 2243

OECD 117 LogKow (HPLC Method) 0.7 (n-octanol/water)

S 324

Section 12

12.4 Mobility in soil

Mixture of: 5-chloro-2-methyl-2H-Isathiazol-3-One (EC No.247-500-7)/2-Methyl-2H-Isathiazol-3-One (EC No.220-239-6) (3: 1)

OECD 121 LogKoc on Soil and Sewage Sludge < 2 (soi) (OECD 121)

S 417

CIT: log Koc = 1.07

MIT: log Koc = -24.54

Benzisothiazol-3(2h)-one

OECD 121 Koc on Soil and Sewage Sludge 14.13 Koc /L/kg (soi) (OECD 121)

S 352

12.5 Results of PBT and vPvB assessment

Benzisothiazol-3(2h)-one

This mixture does not contain substances considered vPvB and PBT

On the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ than 0,1%.

12.6 Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

Benzisothiazol-3(2h)-one

This substance has no interference properties with the endocrine system

12.7 Other adverse effects

Benzisothiazol-3(2h)-one

Nobody

13 Disposal considerations

13.1 Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

[Hazardous waste classification - Reg. \(UE\) 1357/2014](#)

None

14 Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

Section 14

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

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

Seveso Category - Directive 2012/18/EU:

None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

	Restrictions	Registration Number EU
Product restrictions	40	
Contained substance		
	75	

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)

Registration Number EU

On the basis of available data, the product does not contain any SVHC in percentage $\geq$ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

Authorisation
Number

Sunset date

Registration Number EU

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Regulation (EU) 2019/1021 - on persistent organic pollutants

None

Section 15

VOC (Directive 2004/42/EC)

Decorative effect coatings.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

None

15.2 Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

16 Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Flam. Liq. 2	Flammable liquid, category 2
Skin Corr. 1	Skin corrosion, category 1
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1A
STOT SE 1	Specific target organ toxicity - single exposure, category 1
STOT SE 2	Specific target organ toxicity - single exposure, category 2
EUH071	Corrosive to the respiratory tract.
EUH208	Contains. May produce an allergic reaction.
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H370	Causes damage to organs.
H371	May cause damage to organs.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Legend

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CLP: Regulation (EC) 1272/2008

Section 16

Legend

- DNEL: Derived No Effect Level
- EC50: Effective concentration (required to induce a 50% effect)
- EC: Identifier in ESIS (European archive of existing substances)
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

General Bibliography

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
 13. Regulation (EU) 2017/776 (X Atp. CLP)
 14. Regulation (EU) 2018/669 (XI Atp. CLP)
 15. Regulation (EU) 2019/521 (XII Atp. CLP)
 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
 17. Regulation (EU) 2019/1148
 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
 23. Delegated Regulation (UE) 2023/707
 24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
 25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
- The Merck Index. - 10th Edition

Section 16

General Bibliography

- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Calculation methods for classification

Chemical and physical hazards:

Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards:

Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards:

Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes from the previous revision

This SDS has been prepared using new SDS authoring software. For this reason, it is not possible to specify which parts of the document have been changed compared to the previous version. A full reading is recommended.