

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

1.1 Product identifier

· Trade name: bergmann Solar paint (for exterior)

· **1.2 Relevant identified uses of the substance or mixture and uses advised against** outside application.
· **Application of the substance / the mixture** Coating compound/ Surface coating/ paint

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Schwender GmbH
Rehleite 2
D-95445 Bayreuth
Tel +49 921 16867141 Fax +49 921 7313551
Web www.schwender-gmbh.com

· Further information obtainable from:

Product safety division
email: thomas.lohse@maxit-kroelpa.de

· 1.4 Emergency telephone number:

Giftnotruf Erfurt
Nordhäuserstr.74
99089 Erfurt
Telefon: 0049 - (0)361 - 730 730

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms** Void

· **Signal word** Void

· Hazard statements

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

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

P102 Keep out of reach of children.

P103 Read label before use.

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Additional information:

EUH208 Contains 2-octyl-2H-isothiazol-3-one. May produce an allergic reaction.

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Silicone resin paint, with mineral fillers.

- **Dangerous components:**

CAS: 26530-20-1 EINECS: 247-761-7	2-octyl-2H-isothiazol-3-one Flam. Liq. 3, H226; Acute Tox. 3, H311; Acute Tox. 3, H331; Skin Corr. 1B, H314; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); Acute Tox. 4, H302; Skin Sens. 1, H317	0.025-<0.05%
CAS: 13463-41-7 EINECS: 236-671-3 Reg.nr.: 01-2119511196-46	Pyrithione zinc Acute Tox. 3, H301; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Acute Tox. 4, H332	0.0025-<0.025%
CAS: 886-50-0 EINECS: 212-950-5	terbutryn Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Acute Tox. 4, H302; Skin Sens. 1, H317	0.0025-<0.025%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information:**

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

- **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

- **Information for doctor:**

No specific treatment. Treat symptomatically. If swallowed or inhaled large quantities contact poison treatment specialist immediately.

- **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

- **5.3 Advice for firefighters**
- **Protective equipment:** Depending on surrounding fire.
- **Additional information**
Dispose of fire debris and contaminated firefighting water in accordance with official regulations.
Collect contaminated firefighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective clothing.

- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.

- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the material collected according to regulations.

- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Store in cool, dry place in tightly closed receptacles.
- **Information about fire - and explosion protection:** No special measures required.

- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Protect from frost.
Recommended storage temperature: +5 to +30 °C
- **Storage class:** 12

- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· 8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information:** The lists valid during the making were used as basis.

· 8.2 Exposure controls

· **Personal protective equipment:**

· **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

· **Respiratory protection:** Not required.

· **Protection of hands:**

Protective gloves according to EN 374.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Nitrile rubber, NBR. For more information on suitable gloves visit the website: <http://www.gisbau.de>

· **Penetration time of glove material**

For the mixture of chemicals mentioned below the penetration time has to be at least ≥480 minutes (Permeation according to EN 374 Part 3: Level 6).

· **Eye protection:** Goggles recommended during refilling

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· **General Information**

· **Appearance:**

Form: Fluid

Colour: According to product specification

· **Odour:** Characteristic

· **pH-value at 20 °C:** ca.8 (DIN 19261)

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· **Flash point:** Not applicable.

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Vapour pressure at 20 °C:** 24 hPa (berechnet)

· **Density:** Not determined.

· **Solubility in / Miscibility with**

water: Fully miscible.

· **Viscosity:**

Dynamic: Not determined.

Kinematic: Not determined.

· **Solvent content:**

VOC (EC) 0.00 %

· **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:**26530-20-1 2-octyl-2H-isothiazol-3-one**

Oral	LD50	>500 mg/kg (rat)
Dermal	LD50	>900 mg/kg (rat)
Inhalative	LC50	0.27 mg/l (rat)

13463-41-7 Pyrithione zinc

Oral	LD50	774 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50	1.03 mg/l (rat)

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Oral	LD50	ca. 500 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50	>5.21 mg/l (rat)

· **Primary irritant effect:**· **Skin corrosion/irritation**

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Irritation of skin OECD 404 (skin) non irritant (rabbit)

Based on available data, the classification criteria are not met.

· **Serious eye damage/irritation**

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Irritation of eyes OECD 405 (eye) non irritant (rabbit)

Based on available data, the classification criteria are not met.

- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information· **12.1 Toxicity****Aquatic toxicity:****26530-20-1 2-octyl-2H-isothiazol-3-one**

EC50 / 48h	0.42 mg/l (daphnia) (OECD 202)
IC50 / 72h	0.084 mg/l (Scenedesmus subspicatus)
LC50 / 96h	0.03 mg/l (Regenbogenforelle)
EC50 / 72h	0.084 mg/l (Scenedesmus subspicatus) (OECD 201)

13463-41-7 Pyrithione zinc

EC50 / 48h	0.05 mg/l (daphnia)
IC50 / 72h	0.067 mg/l (Senastrum capricomutum)
LC50 / 96h	0.06 mg/l (Regenbogenforelle)

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EC50 / 48h	7.1 mg/l (daphnia)
IC50 / 72h	0.0055 mg/l (Senastrum capricomutum)
LC50 / 96h	1.8 mg/l (Keilfleckbärbling)
EC50 / 72h	0.104 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

· **12.2 Persistence and degradability** No further relevant information available.

Degree of elimination:**26530-20-1 2-octyl-2H-isothiazol-3-one**

OECD 309 Simulation Biodegradation-Surface water 0.6-1.4 d ((-)) (half life)

· **12.3 Bioaccumulative potential****26530-20-1 2-octyl-2H-isothiazol-3-one**

OECD 117 Log Kow (HPLC method) 2.92 ((-)) (n-Octanol/Wasser)

OECD 305 BCF 507-538 BCF (Süßwasserfische)

13463-41-7 Pyrithione zinc

OECD 107 (shake flask method) 1.21 ((-)) (n-Octanol/Wasser)

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OECD 117 Log Kow (HPLC method) 3.19 ((-)) (n-Octanol/Wasser)

OECD 305 BCF 103 BCF ((-)) ((berechnet) EPIWIN)

· **12.4 Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

Behaviour in sewage processing plants:**26530-20-1 2-octyl-2H-isothiazol-3-one**

EC50 30.4 mg/l (Belebtschlammorganismen)

EC 20 / 0,5h 10.4 mg/l (Belebtschlammorganismen) (TTC-Test)

EC 20 / 3h 7.3 mg/l (Belebtschlammorganismen) (OECD 209)

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EC 20 / 3h >100 mg/l (Belebtschlammorganismen) ((OECD 209))

· **Additional ecological information:**

· **General notes:**

Harmful to aquatic organisms

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Observe local and national official regulations.

After prior treatment product has to be landfilled adhering to the regulations pertaining to the disposal of particularly hazardous waste.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

Possible waste ID number: The concrete waste ID number depends on the waste origin.

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANT AND PRINTING INKS
08 01 00	Wastes from MFSU and removal of paint and varnish
08 01 20	Aqueous suspensions containing paint or varnish other than those mentioned under 08 01 19

· **Uncleaned packaging:**

· **Recommendation:**

Empty contaminated packaging thoroughly. They may be recycled after thorough and proper cleaning.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN number

ADR, ADN, IMDG, IATA

Not applicable

14.2 UN proper shipping name

· ADR, ADN, IMDG, IATA

Not applicable

· **14.3 Transport hazard classes**

· ADR, ADN, IMDG, IATA

· **Class:**

Not applicable

· **14.4 Packaging group**

· ADR, IMDG, IATA

Not applicable

SECTION 15: Regulatory information

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

- **Department issuing SDS:** Abteilung Produktsicherheit Maxit

- **Contact:**

Mr. Lohse

Mrs. Andratschke

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

CLP: Classification, labeling and packaging (Regulation (EC) No. 1272/2008)

REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No. 1907/2006)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- *** Data compared to the previous version altered.**