

Article No.: WS1-600 griwecolor Weather-protective coating  
Print date: 17.10.2023 Revision date: 17.10.2023  
Version: 4.4 Issue date: 17.10.2023

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## **griwecolor Weather-protective coating**

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

#### **1.1. Product identifier**

Article No. (manufacturer/supplier): WS1-600  
Trade name/designation griwecolor Weather-protective coating  
white

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

**Relevant identified uses**  
see as in techn. data sheet

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

##### **supplier (manufacturer/importer/downstream user/distributor)**

griwecolor GmbH  
Wieselbrunnen 2 Telephone: +49(0)7707 9904-0  
D-78199 Bräunlingen-Döggingen

##### **Department responsible for information:**

Herr Grieshaber  
E-mail (competent person) info@griwecolor.de

#### **1.4. Emergency telephone number**

Emergency telephone number +49 (0)7707 99040  
Only available during office hours.  
8.00 - 12.00 / 13.00 - 16.30

### **SECTION 2: Hazards identification**

#### **2.1. Classification of the substance or mixture**

##### **Classification according to Regulation (EC) No 1272/2008 [CLP]**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Aquatic Chronic 3 / H412 Hazardous to the aquatic environment Harmful to aquatic life with long lasting effects.

#### **2.2. Label elements**

The product is classified and labelled according to EC directives or corresponding national laws.

##### **Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

##### **Hazard pictograms**

##### **Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

##### **Precautionary statements**

P273 Avoid release to the environment.  
P501 Dispose of contents/container to an appropriate recycling or disposal facility.

##### **Hazard components for labelling**

not applicable

##### **Supplemental hazard information**

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.  
EUH208 Contains 1,2-benzisothiazol-3(2H)-one; othilinone (ISO); reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1); 2-methylisothiazol-3(2H)-one. May produce an allergic reaction.

#### **2.3. Other hazards**

No information available.

### **SECTION 3: Composition/information on ingredients**

#### **3.2. Mixtures**

**Description:** waterbased Dispersion

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



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### Hazardous ingredients:

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

EC No. CAS No. Index No.	REACH No. Designation classification: // Remark	weight-%
236-675-5 13463-67-7 022-006-00-2	Titanium dioxide Carc. 2 H351	12,5 - 25
203-489-0 107-41-5 603-053-00-3	2-Methyl-2,4-pentandiol Skin Irrit. 2 H315 / Eye Irrit. 2 H319	1 - 2,5
220-120-9 2634-33-5 613-088-00-6	01-2120761540-60 1,2-benzisothiazol-3(2H)-one Acute Tox. 4 H302 / Acute Tox. 2 H330 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410 Specific concentration limit (SCL): Skin Sens. 1 H317 $\geq$ 0,05 Acute toxicity estimate (ATE): ATE (oral): 1020 mg/kg bw	0,01 - 0,05
236-671-3 13463-41-7	Zinc pyrithione Acute Tox. 3 H301 / Acute Tox. 2 H330 / Eye Dam. 1 H318 / Repr. 1B H360 / STOT RE 1 H372 / Aquatic Acute 1 H400 (M = 1000) / Aquatic Chronic 1 H410 (M = 10)	< 0,01
886-50-0	Terbutryn (ISO) Acute Tox. 4 H302 / Skin Sens. 1B H317 / Aquatic Acute 1 H400 (M = 100) / Aquatic Chronic 1 H410 (M = 100) Specific concentration limit (SCL): Skin Sens. 1 H317 $\geq$ 3	< 0,01
55965-84-9 613-167-00-5	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) Acute Tox. 2 H330 / Acute Tox. 2 H310 / Acute Tox. 3 H301 / Skin Corr. 1C H314 / Eye Dam. 1 H318 / Skin Sens. 1A H317 / Aquatic Acute 1 H400 (M = 100) / Aquatic Chronic 1 H410 (M = 100) / EUH071 Specific concentration limit (SCL): Skin Corr. 1C H314 $\geq$ 0,6 / Skin Irrit. 2 H315 $\geq$ 0,06 / Eye Dam. 1 H318 $\geq$ 0,6 / Eye Irrit. 2 H319 $\geq$ 0,06 / Skin Sens. 1A H317 $\geq$ 0,0015	< 0,01
247-761-7 26530-20-1 613-112-00-5	octhilinone (ISO) Acute Tox. 3 H301 / Acute Tox. 3 H311 / Acute Tox. 2 H330 / Skin Corr. 1 H314 / Eye Dam. 1 H318 / Skin Sens. 1A H317 / Aquatic Acute 1 H400 (M = 100) / Aquatic Chronic 1 H410 (M = 100) / EUH071 Specific concentration limit (SCL): Skin Sens. 1 H317 $\geq$ 0,0015 Acute toxicity estimate (ATE): ATE (inhalation, vapour): 0,27 mg/L	< 0,01
220-239-6 2682-20-4 613-326-00-9	2-methylisothiazol-3(2H)-one Acute Tox. 2 H330 / Acute Tox. 3 H311 / Acute Tox. 3 H301 / Skin Corr. 1B H314 / Eye Dam. 1 H318 / Skin Sens. 1A H317 / Aquatic Acute 1 H400 (M = 10) / Aquatic Chronic 1 H410 (M = 1) / EUH071 Specific concentration limit (SCL): Skin Sens. 1A H317 $\geq$ 0,0015	< 0,01

### Additional information

Full text of classification: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

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### **Following skin contact**

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

### **After eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

### **Following ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

The product itself does not burn.

##### **Suitable extinguishing media**

Not applicable

##### **Unsuitable extinguishing media**

Not applicable

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

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon monoxide, carbon dioxide, smoke, nitrogen oxides.

#### **5.3. Advice for firefighters**

Provide a conveniently located respiratory protective device.

##### **Additional information**

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

### **SECTION 6: Accidental release measures**

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

See protective measures under point 7 and 8.

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

#### **6.4. Reference to other sections**

Observe protective provisions (see section 7 and 8).

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advices on safe handling**

Avoid contact with skin, eyes and clothes. When using do not eat or drink.

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

##### **Requirements for storage rooms and vessels**

Store carefully closed containers upright to prevent any leaks.

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### **Hints on joint storage**

Not applicable.

### **Further information on storage conditions**

Store in a well-ventilated and dry room at temperatures between 5 °C and 25 °C. Protect from sunlight. Take care of instructions on label.

Protect against: Frost

### **7.3. Specific end use(s)**

Observe technical data sheet. Observe instructions for use.

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

#### **Occupational exposure limit values**

not applicable

### **8.2. Exposure controls**

#### **Personal protection equipment**

##### **Respiratory protection**

Not applicable.

##### **Hand protection**

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm; Breakthrough time: >480 min .

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin: . Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

##### **Eye/face protection**

Wear closely fitting protective glasses in case of splashes. Recommended eye protection articles: Wear eye glasses with side protection according to EN 166.

##### **Body protection**

Wear dust-resistant protective clothing.

##### **Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

##### **Environmental exposure controls**

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

## **SECTION 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

#### **Physical state:**

**Liquid**

#### **Colour:**

**refer to label**

#### **Odour:**

**characteristic**

#### **Odour threshold:**

**not applicable**

#### **Melting point/freezing point:**

**not applicable**

#### **Initial boiling point and boiling range:**

**100 °C**

Source: water

#### **Flammability:**

**not applicable**

#### **Lower and upper explosion limit:**

##### **Lower explosion limit:**

**0,8 Vol-%**

##### **Upper explosion limit:**

**14 Vol-%**

Source: (2-methoxymethylethoxy)propanol

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<b>Flash point:</b>	<b>not applicable</b>
<b>Auto-ignition temperature:</b>	<b>207 °C</b> Source: (2-methoxymethylethoxy)propanol
<b>Decomposition temperature:</b>	<b>not applicable</b>
<b>pH at 20 °C:</b>	<b>7 - 8,8 / 100,0 weight-%</b>
<b>Viscosity at 20 °C:</b>	<b>thixotropic</b>
<b>Solubility(ies):</b>	
<b>Water solubility at 20 °C:</b>	<b>partially soluble</b>
<b>Partition coefficient: n-octanol/water:</b>	<b>see section 12</b>
<b>Vapour pressure at 20 °C:</b>	<b>not applicable</b>
<b>Density and/or relative density:</b>	
<b>Density at 20 °C:</b>	<b>1,27 g/cm<sup>3</sup></b>
<b>Relative vapour density:</b>	<b>not applicable</b>
<b>particle characteristics:</b>	<b>not applicable</b>

### **9.2. Other information**

<b>solvent content:</b>	
<b>Organic solvents:</b>	<b>7,4 weight-%</b>

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

This material is considered to be non-reactive under normal use conditions.

### **10.2. Chemical stability**

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

### **10.3. Possibility of hazardous reactions**

Not applicable.

### **10.4. Conditions to avoid**

Not applicable.

### **10.5. Incompatible materials**

not applicable

### **10.6. Hazardous decomposition products**

Does not decompose when used for intended uses.

## **SECTION 11: Toxicological information**

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

#### **Acute toxicity**

1,2-benzisothiazol-3(2H)-one  
oral, LD50, Rat: 1020 mg/kg  
dermal, LD50, Rat: 5000 mg/kg

#### **octhilinone (ISO)**

inhalative (vapours), LC50, Rat: 0,27 mg/L (4 h)

#### **Skin corrosion/irritation; Serious eye damage/eye irritation**

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

#### **Respiratory or skin sensitisation**

#### **octhilinone (ISO)**

Skin:

Method: Not skin sensitizing based on results on similar tested mixtures using bridging principles according to CLP

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Regulation Article 9 (4); OECD 429 LLNA (mouse) - non-skin sensitizing - S5147; S5146; S4565; S4568

### **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

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

### **STOT-single exposure; 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.

### **Practical experience/human evidence**

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

### **Overall assessment on CMR properties**

EC No. CAS No.	Designation	Classification according to Regulation (EC) No 1272/2008 [CLP]
236-671-3 13463-41-7	Zinc pyrithione	Repr. 1B

### **11.2. Information on other hazards**

#### **Endocrine disrupting properties**

No information available.

## **SECTION 12: Ecological information**

Classification according to Regulation (EC) No 1272/2008 [CLP]

Do not allow to enter into surface water or drains.

### **12.1. Toxicity**

1,2-benzisothiazol-3(2H)-one

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 11 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna: 16,4 mg/L (48 h)

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 0,11 mg/L

#### **Long-term Ecotoxicity**

Harmful to aquatic life with long lasting effects.

### **12.2. Persistence and degradability**

Toxicological data are not available.

### **12.3. Bioaccumulative potential**

Toxicological data are not available.

#### **Bioconcentration factor (BCF)**

Toxicological data are not available.

### **12.4. Mobility in soil**

Toxicological data are not available.

### **12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### **12.6. Endocrine disrupting properties**

No information available.

### **12.7. Other adverse effects**

No information available.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

**Appropriate disposal / Product  
Recommendation**

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Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

### **List of proposed waste codes/waste designations in accordance with EWC**

080111\* Waste paint and varnish containing organic solvents or other dangerous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

### **Appropriate disposal / Package**

#### **Recommendation**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

## **SECTION 14: Transport information**

**This mixture is not classified as dangerous according to international transport regulations (ADR/RID, IMDG, ICAO/IATA).**

**No dangerous good in sense of this transport regulation.**

### **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**

Land transport (ADR/RID)

not applicable

Marine pollutant

not applicable

### **14.6. Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

### **Further information**

#### **Land transport (ADR/RID)**

Tunnel restriction code

-

#### **Sea transport (IMDG)**

EmS-No.

not applicable

### **14.7. Maritime transport in bulk according to IMO instruments**

No transport as bulk according IBC - Code.

## **SECTION 15: Regulatory information**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **EU legislation**

##### **Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]**

VOC-value (in g/L): 104,2

##### **Directive 2004/42/EC on the limitation of emissions of volatile organic compounds**

VOC product category: (Cat. A/i) ; VOC limit value: 140 g/l

Maximum VOC content of the product in a ready to use condition (in g/L): 104,2

#### **National regulations**

##### **Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).



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### **15.2. Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

#### **Full text of classification in section 3:**

Carc. 2 / H351	Carcinogenicity	Suspected of causing cancer if inhaled.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Acute Tox. 2 / H330	Acute toxicity (inhalative)	Fatal if inhaled.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.
Acute Tox. 3 / H301	Acute toxicity (oral)	Toxic if swallowed.
Repr. 1B / H360	Reproductive toxicity	May damage fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
STOT RE 1 / H372	STOT-repeated exposure	Causes damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Skin Sens. 1B / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Acute Tox. 2 / H310	Acute toxicity (dermal)	Fatal in contact with skin.
Skin Corr. 1C / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Skin Sens. 1A / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Acute Tox. 3 / H311	Acute toxicity (dermal)	Toxic in contact with skin.
Skin Corr. 1 / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Skin Corr. 1B / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.

#### **Classification procedure**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 3      Hazardous to the aquatic environment      Calculation method.

#### **Abbreviations and acronyms**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EmS-No.	Emergency Response Procedures for Ships Carrying Dangerous Goods
EN	European Standard
EU	European Union
EEC	European Economic Community
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods



**Safety Data Sheet**  
**according to Regulation (EC) No. 1907/2006 (REACH)**  
**according to Regulation (EU) 2020/878**



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ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

### **Data sources**

Data arise from reference works and literature.

### **Further information**

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.