



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



AN2-800Gruppe  
Version 1.3

griwephon hydrophob  
Revision date 02-Jul-2024

Print date 02-Jul-2024

CAS No. EC No. Index No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	weight-%
2634-33-5 220-120-9 613-088-00-6	<b>1,2-benzisothiazol-3(2H)-one</b> 01-2120761540-60 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 Specific concentration limit (SCL) Skin Sens. 1 H317: $\geq 0,05$ ATE (oral): = 532 mg/kg ATE (dermal): = 5,000 mg/kg	0,025 < 0,050
55965-84-9 - 613-167-00-5	<b>reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)</b> Acute Tox. 3 H301 / Acute Tox. 2 H310 / Skin Corr. 1C H314 / Skin Sens. 1A H317 / Eye Dam. 1 H318 / Acute Tox. 2 H330 / Aquatic Acute 1 H400 (M = 100,00 ) / Aquatic Chronic 1 H410 (M = 100,00 ) / EUH071 Specific concentration limit (SCL) Eye Irrit. 2 H319: $\geq 0,06$ / Skin Sens. 1A H317: $\geq 0,0015$ / Eye Dam. 1 H318: $\geq 0,60$ / Skin Irrit. 2 H315: $\geq 0,06$ / Skin Corr. 1C H314: $\geq 0,60$	< 0,025
2682-20-4 220-239-6 613-326-00-9	<b>2-methylisothiazol-3(2H)-one</b> Acute Tox. 3 H301 / Acute Tox. 3 H311 / Skin Corr. 1B H314 / Skin Sens. 1A H317 / Eye Dam. 1 H318 / Acute Tox. 2 H330 / Aquatic Acute 1 H400 (M = 10,00 ) / Aquatic Chronic 1 H410 (M = 1,00 ) / EUH071 Specific concentration limit (SCL) Skin Sens. 1A H317: $\geq 0,0015$ ATE (oral): 120 mg/kg ATE (dermal): 300 mg/kg ATE (inhalative): 0.134 mg/L (4 h)	< 0,025
26172-55-4 247-500-7 -	<b>5-chloro-2-methyl-2H-isothiazol-3-one</b> Acute Tox. 3 H301 / Acute Tox. 2 H310 / Skin Corr. 1C H314 / Skin Sens. 1A H317 / Eye Dam. 1 H318 / Acute Tox. 2 H330 / Aquatic Acute 1 H400 (M = 100,00 ) / Aquatic Chronic 1 H410 (M = 100,00 ) / EUH071 Specific concentration limit (SCL) Eye Irrit. 2 H319: $\geq 0,06$ / Skin Sens. 1A H317: $\geq 0,0015$ / Eye Dam. 1 H318: $\geq 0,60$ / Skin Irrit. 2 H315: $\geq 0,06$ / Skin Corr. 1C H314: $\geq 0,60$ ATE (oral): 65 mg/kg	< 0,025

**Remark**

Full text of H- and EUH-statements: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General information**

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

**Following skin contact**

Remove contaminated, saturated clothing immediately. 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.

**Self-protection of the first aider**

First aider: Pay attention to self-protection!

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

**Symptoms**

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

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Powder, spray mist, (water)

#### Unsuitable extinguishing media

Strong water jet

### 5.2 Advice for firefighters

Provide a conveniently located respiratory protective device. 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

Observe protective provisions (see section 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

#### For containment

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).

#### For cleaning up

Clean using cleansing agents. Do not use solvents.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advices on safe handling

Avoid contact with skin, eyes and clothes. Avoid respiration of swarf. Personal protection equipment: see section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

#### Advices on general occupational hygiene

When using do not eat, drink or smoke.

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

#### Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSivO). Keep container tightly closed. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

**Storage class** LGK12 - non-combustible liquids that cannot be assigned to any of the above storage classes

#### Further information on storage conditions

Store in a well-ventilated and dry room at temperatures between 8 °C and 25 °C.  
Protect from heat and direct sunlight. Protect from frost. Take care of instructions on label.

### 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

CAS No.	Substance name	Source	Long-term /short-term (Spitzenbegrenzung)
12001-26-2	Glimmer GHL 144	WEL	10 / - ( - ) mg/m <sup>3</sup> (inhalable fraction)
12001-26-2	Glimmer GHL 144	WEL	0.8 / - ( - ) mg/m <sup>3</sup>

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			(respirable fraction)
1317-65-3	Limestone	WEL	10 / - ( - ) mg/m <sup>3</sup> (inhalable fraction)
1317-65-3	Limestone	WEL	4 / - ( - ) mg/m <sup>3</sup> (respirable fraction)
1317-65-3	Limestone	WEL	10 / - ( - ) mg/m <sup>3</sup> (inhalable fraction)
1317-65-3	Limestone	WEL	4 / - ( - ) mg/m <sup>3</sup> (respirable fraction)

**Additional information**

Long-term: Long-term occupational exposure limit value

short-term: short-term occupational exposure limit value

**Biological limit values**

No data available

**DNEL worker**

CAS No.	Substance name	DNEL type	DNEL value
2634-33-5	1,2-benzisothiazol-3(2H)-one	DNEL long-term dermal (systemic)	0.966 mg/kg
2634-33-5	1,2-benzisothiazol-3(2H)-one	DNEL long-term inhalative (systemic)	6.81 mg/m <sup>3</sup>
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	DNEL acute inhalative (local)	0.04 mg/m <sup>3</sup>
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	DNEL long-term inhalative (local)	0.02 mg/m <sup>3</sup>
55965-84-9	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	DNEL acute inhalative (local)	0.04 mg/m <sup>3</sup>
55965-84-9	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	DNEL long-term inhalative (local)	0.02 mg/m <sup>3</sup>

**DNEL Consumer**

CAS No.	Substance name	DNEL type	DNEL value
2634-33-5	1,2-benzisothiazol-3(2H)-one	DNEL long-term inhalative (systemic)	1.2 mg/m <sup>3</sup>
2634-33-5	1,2-benzisothiazol-3(2H)-one	DNEL long-term dermal (systemic)	0.345 mg/kg
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	DNEL short-term oral (acute)	0.11 mg/kg
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	DNEL acute inhalative (local)	0.04 mg/m <sup>3</sup>
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	DNEL long-term inhalative (local)	0.02 mg/m <sup>3</sup>
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	DNEL long-term oral (repeated)	0.09 mg/kg
55965-84-9	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	DNEL acute inhalative (local)	0.04 mg/m <sup>3</sup>
55965-84-9	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	DNEL long-term inhalative (local)	0.02 mg/m <sup>3</sup>
55965-84-9	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	DNEL long-term oral (repeated)	0.09 mg/kg
55965-84-9	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	DNEL short-term oral (acute)	0.11 mg/kg

**PNEC**

CAS No.	Substance name	PNEC type	PNEC Value
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	PNEC soil, freshwater	0.01 mg/kg
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	PNEC aquatic, freshwater	0.004 mg/L

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55965-84-9	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	PNEC soil, freshwater	0.01 mg/kg
55965-84-9	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	PNEC aquatic, freshwater	0.004 mg/L

## 8.2 Exposure controls

Provide good ventilation. This can be achieved with local or room suction.

### Personal protection equipment

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

#### **Hand protection**

Suitable material: NBR (Nitrile rubber)  
Thickness of the glove material  $\geq 0.4$  mm  
Breakthrough time  $\geq 480$  min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. 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

#### **Skin protection**

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. Eye glasses with side protection: EN 166

#### **Body protection**

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. Anti-static clothing including shoes are recommended.

### Environmental exposure controls

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	refer to label
Odour	characteristic
pH at 20 °C (100%)	7 - 8.8
Melting point/freezing point	not determined
Initial boiling point and boiling range	$> 35$ °C
Flash point	not applicable
flammability	not applicable
Lower explosion limit at 20°C	not determined
Upper explosion limit at 20°C	not determined
Vapour pressure at 20°C	not determined
Relative vapour density	not applicable
Density at 20 °C	1.40 kg/l
Water solubility at 20°C	completely miscible
Partition coefficient: n-octanol/water	see section 12
Ignition temperature in °C	not determined
Decomposition temperature	not determined
Kinematic viscosity at 20 °C:	thixotropic
Dynamic viscosity:	thixotropic

particle characteristics not applicable

## 9.2 Other information

not applicable

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 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

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

### 10.5 Incompatible materials

No further relevant information available.

### 10.6 Hazardous decomposition products

Not applicable

## SECTION 11: Toxicological information

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

#### Acute toxicity

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

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

LD50: oral (Rat): = 532 mg/kg

LD50: dermal (Rat): = 5,000 mg/kg

#### **2-methylisothiazol-3(2H)-one**

LD50: oral (Rat): 120 mg/kg

LD50: dermal (Rat): 300 mg/kg

LC50: inhalative (Rat): 0.134 mg/L (4 h)

#### **5-chloro-2-methyl-2H-isothiazol-3-one**

LD50: oral (Rat): 65 mg/kg

#### Skin corrosion/irritation

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

#### Serious eye damage/eye irritation

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

#### Respiratory or skin sensitisation

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

#### Overall assessment on CMR properties

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.

#### **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.

### 11.2 Information on other hazards

#### **Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

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

#### **Algae toxicity**

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

ErC50: (Pseudokirchneriella subcapitata): = 0.11 mg/L

##### **reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)**

ErC50: (Pseudokirchneriella subcapitata): = 0.048 mg/L

#### **Daphnia toxicity**

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

EC50 = 16.4 mg/L (48 h)

##### **reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)**

EC50 = 0.1 mg/L (48 h)

#### **Fish toxicity**

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

LC50: (Oncorhynchus mykiss (Rainbow trout)): = 11 mg/L (96 h)

### **12.2 Persistence and degradability**

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

Biodegradation = 0.04 %

#### **reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)**

Biodegradation = 60 %

### **12.3 Bioaccumulative potential**

No information available.

### **12.4 Mobility in soil**

No information 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**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### **12.7 Other adverse effects**

No information available.

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

#### **Product/Packaging disposal**

Do not empty into drains; dispose of this material and its container in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

#### **Waste codes/waste designations according to EWC/AVV**

080112 - waste paint and varnish other than those mentioned in 08 01 11

#### **Other disposal recommendations**

Non-contaminated packages may be recycled. Following consultation with waste management company and after solidification, landfill together with household waste.

## **SECTION 14: Transport information**

### **14.1 UN number or ID number**

not applicable

### **14.2 UN proper shipping name**



**Land transport (ADR/RID)**

No dangerous good in sense of these transport regulations.

**Sea transport (IMDG)**

No dangerous good in sense of these transport regulations.

**Air transport (ICAO-TI / IATA-DGR)**

No dangerous good in sense of these transport regulations.

**14.3 Transport hazard class(es)**

not applicable

**14.4 Packing group**

not applicable

**14.5 Environmental hazards**

Land transport (ADR/RID)

not applicable

Sea transport (IMDG)

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

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

No transport as bulk according to IBC Code.

**14.8 Additional information**

**Land transport (ADR/RID)**

not applicable

**Sea transport (IMDG)**

not applicable

**Air transport (ICAO-TI / IATA-DGR)**

not applicable

## SECTION 15: Regulatory information

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

**EU legislation**

**Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable. Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

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

VOC value: 0 g/l

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]**

**Hazard categories / Named dangerous substances**

This product is not classified according to Directive 2012/18/EU.

**National regulations**

Observe in addition any national regulations!

## SECTION 16: Other information

**List of relevant hazard statements and/or precautionary statements from sections 2 to 15**

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.
H330	Fatal if inhaled.



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H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

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

not applicable

**Key literature references and sources for data**

Data arise from reference works and literature.

**Abbreviations and acronyms**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

OEL: Occupational Exposure Limit Value

BLV: Biological limit values

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

EN: European Standard

EU/EEA: European 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

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 and Authorization 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

**Indication of changes**

\* Data changed compared with the previous version.

**Additional information**

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.