

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 16.04.2024

Version number 27 (replaces version 26)

Revision: 12.04.2024

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

- **1.1 Product identifier**
- **Trade name:** **Additiv-K**
- **Article number:** W717301
- **UFI:** TFU0-20DV-5009-KMU8
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture**  
Preservative  
Coating
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
RÜTGERS Organics GmbH  
Oppauer Straße 43  
D-68305 Mannheim  
Tel.: \*\*49-621-76540  
US: 1-980-253-8880  
Fax : \*\*49-621-7654446  
e-mail: SDB.rog@ruegters-organics.de
- **Informing department:** see: Heading 16 (Contact)
- **1.4 Emergency telephone number:** see: Manufacturer/Supplier

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



corrosion

Eye Dam. 1      H318 Causes serious eye damage.



environment

Aquatic Acute 1    H400 Very toxic to aquatic life.



Skin Irrit. 2      H315 Causes skin irritation.

Skin Sens. 1      H317 May cause an allergic skin reaction.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**



GHS05



GHS07



GHS09

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**  
2-Methyl-2H-isothiazol-3-on  
1,2-Benzisothiazol-3(2H)-on

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- **Hazard statements**

H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H317 May cause an allergic skin reaction.  
 H400 Very toxic to aquatic life.

- **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves / eye protection / face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Description:** Mixture consisting of the following components.

- **Dangerous components:**

CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6	1,2-Benzisothiazol-3(2H)-on ☠ Eye Dam. 1, H318; ☠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.05 %	<5%
CAS: 2682-20-4 EINECS: 220-239-6 Index number: 613-326-00-9	2-Methyl-2H-isothiazol-3-on ☠ Acute Tox. 3, H311; ☠ Skin Corr. 1B, H314; ☠ Aquatic Acute 1, H400; ⚠ Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.0015 %	<5%

- **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**

- **After inhalation**

Supply fresh air and call for doctor for safety reasons.  
 In case of unconsciousness bring patient into stable side position for transport.

- **After skin contact** If skin irritation continues, consult a doctor.

- **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

- **After swallowing**

Rinse out mouth and then drink plenty of water.

Administer medicinal carbon

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

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

No further relevant information available.

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
Water spray jet  
Foam  
Carbon dioxide  
Fire-extinguishing powder  
Use fire fighting measures that suit the environment.
- **5.2 Special hazards arising from the substance or mixture**  
Can be released in case of fire  
Sulphur dioxide (SO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide (CO)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Prevent from spreading (e.g. by damming-in or oil barriers).  
Dilute with much water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.
- **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 information on disposal.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Use polyolefine containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components 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 that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls**  
Provide adequate general and local exhaust ventilation. Ensure the ventilation system is regularly maintained and tested. Good general ventilation should be adequate to control

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worker exposure to airborne contaminants. Observe any occupational exposure limits for the product or ingredients

- **Individual protection measures, such as personal protective equipment**

- **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

- **Breathing equipment:** Not required.

- **Hand protection**

Protective gloves. It is recommended that chemical-resistant, impervious gloves are worn to protect hands from chemicals. Gloves should comply with European Standard EN374.

The glove material has to be impermeable and resistant to the product.

No recommendation to the specific glove material can be given for the product. Please refer to glove manufacturer for suitability.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

Nitrile rubber, NBR

Please refer to the above paragraph.

- **Penetration time of glove material**

Please refer to the glove manufacturer and the information in the paragraphs above.

- **Eye/face protection**

Wear tightly sealed safety glasses.

Personal protective equipment for eye and face protection should comply with European Standard EN166.

- **Body protection:** Impervious protective clothing

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Physical state**

Fluid

- **Colour:**

Yellow tint

- **Odour:**

Mild

- **Odour threshold:**

Not determined.

- **Melting point/freezing point:**

Not determined

- **Boiling point or initial boiling point and boiling range**

100 °C

- **Flammability**

Not applicable.

- **Lower and upper explosion limit**

- **Lower:**

Not determined.

- **Upper:**

Not determined.

- **Flash point:**

Not applicable

- **Decomposition temperature:**

Not determined.

- **pH at 20 °C**

8.8

- **Viscosity:**

- **Kinematic viscosity**

Not determined.

- **dynamic:**

Not determined.

- **Solubility**

- **Water:**

Fully miscible

- **Partition coefficient n-octanol/water (log value)**

Not determined.

- **Vapour pressure:**

Not determined.

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- **Density and/or relative density**
- **Density at 20 °C** 1.03 g/cm<sup>3</sup>
- **Relative density** Not determined.
- **Vapour density** Not determined.

- **9.2 Other information**
- **Appearance:**
- **Form:** Fluid
- **Important information on protection of health and environment, and on safety.**
- **Self-inflammability:** Product is not selfigniting.
- **Explosive properties:** Product is not explosive.
- **Change in condition**
- **Evaporation rate** Not determined.

- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

### 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:** oxydizing agents
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

### 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.

- **LD/LC50 values that are relevant for classification:**

Oral	LD50	>2,500 mg/kg (Rattus norvegicus (Ratte))
Dermal	LD50	>2,000 mg/kg (Rattus norvegicus (Ratte))
Inhalative	LC50/4 h	>5 mg/l (Rattus norvegicus (Ratte))

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- **Skin corrosion/irritation**  
Irritations of the skin are possible  
Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Subacute to chronic toxicity: no mutagenic effects in animal experiments**
- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** The product is biodegradable.
- **12.3 Bioaccumulative potential**  
Due to the distribution coefficient *n*-octanol/water a worth-mentioning accumulation in organisms is not expected.  
log Pow 0,4 BIT  
log Pow -0,3 MIT
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Other information:**  
COD:  
78 mg O<sub>2</sub>/g Produkt
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.  
Do not allow product to reach ground water, water bodies or sewage system.  
Danger to drinking water if even small quantities leak into soil.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
After prior treatment product has to be disposed of in an incinerator for hazardous waste under adherence to the regulations pertaining to the disposal of particularly hazardous waste.  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

### SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA** UN1760

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<ul style="list-style-type: none"> <li>• <b>14.2 UN proper shipping name</b></li> <li>• <b>ADR</b></li> <li>• <b>IMDG, IATA</b></li> </ul>	<p>CORROSIVE LIQUID, N.O.S. (2-methyl-2H-isothiazol-3-one), ENVIRONMENTALLY HAZARDOUS</p> <p>CORROSIVE LIQUID, N.O.S. (2-methyl-2H-isothiazol-3-one)</p>
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- **14.3 Transport hazard class(es)**

- **ADR, IMDG**



<ul style="list-style-type: none"> <li>• <b>Class</b></li> <li>• <b>Label</b></li> </ul>	<p>8 Corrosive substances.</p> <p>8</p>
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- **IATA**



<ul style="list-style-type: none"> <li>• <b>Class</b></li> <li>• <b>Label</b></li> </ul>	<p>8 Corrosive substances.</p> <p>8</p>
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- **14.4 Packing group**

- **ADR, IMDG, IATA**

I

- **14.5 Environmental hazards:**

- **Marine pollutant:**

- **Special marking (ADR):**

Product contains environmentally hazardous substances: 1,2-benzisothiazol-3(2H)-one

No

Symbol (fish and tree)

Symbol (fish and tree)

- **14.6 Special precautions for user**

- **Hazard Index Number:**

- **EMS Number:**

- **Stowage Code**

Warning: Corrosive substances.

88

F-A, S-B

SW2 Clear of living quarters.

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

Not applicable.

- **Transport/Additional information:**

Not a dangerous good in accordance with national and international regulations.

- **ADR**

- **Limited quantities (LQ)**

- **Excepted quantities (EQ)**

- **Transport category**

- **Tunnel restriction code**

0

Code: E0

Not permitted as Excepted Quantity

1

E

- **IMDG**

- **Limited quantities (LQ)**

- **Excepted quantities (EQ)**

0

Code: E0

Not permitted as Excepted Quantity

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- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• <b>UN "Model Regulation":</b></li> </ul> | UN 1760 CORROSIVE LIQUID, N.O.S. (2-METHYL-2H-ISOTHIAZOL-3-ONE), 8, 1, ENVIRONMENTALLY HAZARDOUS |
|---|--|

### SECTION 15: Regulatory information

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

- **Poisons Act**

- **Regulated explosives precursors**

None of the ingredients is listed.

- **Regulated poisons**

None of the ingredients is listed.

- **Reportable explosives precursors**

None of the ingredients is listed.

- **Reportable poisons**

None of the ingredients is listed.

- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

- **Seveso category E2** Hazardous to the Aquatic Environment

- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

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

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

It is the responsibility of the user to assure himself that the information provided with this material safety data sheet is complete and applicable for his utilization of the product.

- **Relevant phrases**

H302 Harmful if swallowed.

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.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

- **Department issuing data specification sheet:** Product safety department, Mannheim

- **Contact:**

RÜTGERS Organics

Product Safety

Tel. \*\*49 / 621 7654 247

- **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

ADR: Accord relatif au transport international 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

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*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)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Acute Tox. 4: Acute toxicity – Category 4**Acute Tox. 3: Acute toxicity – Category 3**Skin Corr. 1B: Skin corrosion/irritation – Category 1B**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Skin Sens. 1: Skin sensitisation – Category 1**Skin Sens. 1A: Skin sensitisation – Category 1A**Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*

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

GB