

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



Article No.: 514500  
Print date: 23.05.2023  
Version: 2.22

Universal Maintenance Lacquer  
Revision date: 23.03.2023  
Issue date: 23.03.2023

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

**1.1. Product identifier**

Article No. (manufacturer/supplier) 514500  
Trade name/designation Universal Maintenance Lacquer

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

**Relevant identified uses**

Coating (Paint, Varnish).

**Uses advised against**

Do not use for products which come into contact with the food stuffs.

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

**Manufacturer/supplier**

Heinrich König GmbH & Co. KG  
An der Rosenhelle 5  
61138 Niederdorfelden  
Germany

Telephone: +49 (0)6101 5360 0  
Telefax: +49 (0)6101 5360 11  
E-mail: [Info@heinrich-koenig.de](mailto:Info@heinrich-koenig.de)  
Website: [www.heinrich-koenig.de](http://www.heinrich-koenig.de)

**Department responsible for information:**

Laboratory

Only available during office hours:

Telephone: +49 (0)6101 5360 71  
Mon - Thurs 08:00 to 16:00  
Friday 08:00 - 12:30

E-mail (competent person)

[SDB@heinrich-koenig.de](mailto:SDB@heinrich-koenig.de)

**1.4. Emergency telephone number**

Emergency telephone number

Emergency CONTACT (24-Hour-Number): GBK  
GmbH +49 (0)6132-84463

**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 not hazardous according to regulation (EC) No 1272/2008 [CLP].

**Additional information**

0 percent of the mixture consists of components of unknown hazards to the aquatic environment.

**2.2. Label elements**

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

**Hazard pictograms**

**Hazard statements**

not determined

**Precautionary statements**

not determined

**Hazard components for labelling**

not determined

**Supplemental hazard information**

EUH208

Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

EUH210

Safety data sheet available on request.

**2.3. Other hazards**

No information available.

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

**3.2. Mixtures**

**Description**

Water lacquer

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

\*

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EC No. CAS No. Index No.	REACH No. Designation classification: // Remark	weight-%
225-878-4	01-2119475527-28-xxxx	
5131-66-8	3-butoxypropan-2-ol	1 < 2,5
603-052-00-8	Eye Irrit. 2 H319 / Skin Irrit. 2 H315	
220-120-9	01-2120761540-60-xxxx	
2634-33-5	1,2-benzisothiazol-3(2H)-one	0,01 < 0,1
613-088-00-6	Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Acute 1 H400 Specific concentration limit (SCL): Skin Sens. 1 H317 >= 0,05 Acute toxicity estimate (ATE): ATE (oral): 1020 mg/kg bw	

**Additional information**

Full text of classification: 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. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

**In case of inhalation**

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

**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**

**Suitable extinguishing media**

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

**Unsuitable extinguishing media**

strong water jet

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

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

**5.3. 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**

Ventilate affected area. Do not breathe vapours.

**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.

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**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. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to 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.

**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. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

**Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Further information on storage conditions**

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

**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 determined

**DNEL:**

3-butoxypropan-2-ol

Index No. 603-052-00-8 / EC No. 225-878-4 / CAS No. 5131-66-8

DNEL long-term dermal (systemic), Workers: 44 mg/kg

DNEL long-term inhalative (systemic), Workers: 270,5 mg/m<sup>3</sup>

DNEL long-term oral (repeated), Consumer: 8,75 mg/kg

DNEL long-term dermal (systemic), Consumer: 16 mg/kg

DNEL long-term inhalative (systemic), Consumer: 33,8 mg/m<sup>3</sup>

**PNEC:**

3-butoxypropan-2-ol

Index No. 603-052-00-8 / EC No. 225-878-4 / CAS No. 5131-66-8

PNEC aquatic, freshwater: 0,525 mg/L

PNEC aquatic, marine water: 0,0525 mg/L

PNEC aquatic, intermittent release: 5,25 mg/L

PNEC sediment, freshwater: 2,36 mg/kg

PNEC sediment, marine water: 0,236 mg/kg

PNEC, soil: 0,16 mg/kg

PNEC sewage treatment plant (STP): 10 mg/L

**8.2. Exposure controls**

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

**Personal protection equipment**

**Respiratory protection**

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If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

**Hand protection**

For prolonged or repeated handling the following glove material must be used: Butyl caoutchouc (butyl 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.

**Body protection**

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

**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 \*

<b>Physical state:</b>	<b>Liquid</b>
<b>Colour:</b>	<b>milky opaque</b>
<b>Odour:</b>	<b>odourless</b>
<b>Odour threshold:</b>	<b>not determined</b>
<b>Melting point/freezing point:</b>	<b>n.a.</b>
<b>Initial boiling point and boiling range:</b>	<b>100 °C</b> Method: calculated. Source: Water
<b>Flammability:</b>	not determined
<b>Lower and upper explosion limit:</b>	
<b>Lower explosion limit:</b>	<b>not determined</b>
<b>Upper explosion limit:</b>	<b>not determined</b>
<b>Flash point:</b>	<b>not determined</b>
<b>Auto-ignition temperature:</b>	<b>not determined</b>
<b>Decomposition temperature:</b>	<b>not determined</b>
<b>pH at 20 °C:</b>	<b>N.A.</b>
<b>Cinematic viscosity (40°C):</b>	<b>&lt; 7 mm<sup>2</sup>/s</b>
<b>Viscosity at 20 °C:</b>	<b>24 s 3 mm</b> Method: EN ISO 2431
<b>Solubility(ies):</b>	
<b>Water solubility at 20 °C:</b>	<b>miscible</b>
<b>Partition coefficient: n-octanol/water:</b>	<b>see section 12</b>
<b>Vapour pressure at 20 °C:</b>	<b>5,4931 mbar</b> Method: calculated.
<b>Density and/or relative density:</b>	
<b>Density at 20 °C:</b>	<b>1,02 g/cm<sup>3</sup></b> Method: calculated.
<b>Relative vapour density:</b>	<b>not determined</b>
<b>particle characteristics:</b>	<b>not applicable</b>

9.2. Other information

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**Solid content:** 25,18 weight-%  
**solvent content:**  
**Organic solvents:** 2 weight-%  
**Water:** 73 weight-%

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 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

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

### 10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

### 10.5. Incompatible materials

not applicable

### 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

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

#### Acute toxicity

3-butoxypropan-2-ol

oral, LD50, Rat: 3300 mg/kg

dermal, LD50, Rat: > 2000 mg/kg

inhalative (vapours), LC50, Rat: > 3,5 mg/L (4 h)

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

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

oral, LD50, Rat: 1020 mg/kg

Harmful if swallowed.

dermal, LD50, Rabbit

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

3-butoxypropan-2-ol

Skin (4 h)

Causes skin irritation.

eyes

Causes eye irritation.

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

Skin (4 h)

Causes skin irritation.

eyes

Causes serious eye damage.

#### Respiratory or skin sensitisation

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

Skin:

May cause an allergic skin reaction.

#### 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

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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**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**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**

3-butoxypropan-2-ol

Fish toxicity, LC50, Poecilia reticulata (Guppy) 560 - 1000 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 1000 mg/L (48 h)

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 1000 mg/L (96 h)

Bacteria toxicity, EC50: > 1000 mg/L (3 h)

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

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

Fish toxicity, LC50: 10 mg/L 1,6 - 16 mg/L (96 h)

Very toxic to aquatic organisms.

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

**Long-term Ecotoxicity**

Toxicological data are not available.

**12.2. Persistence and degradability**

3-butoxypropan-2-ol

, OECD 301E/ EEC 92/69/V, C.4-B: 90 % (28 D)

Readily biodegradable (according to OECD criteria).

**12.3. Bioaccumulative potential**

3-butoxypropan-2-ol

Partition coefficient: n-octanol/water: 1,2

**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**

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**

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

**Appropriate disposal / Package**

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**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 determined

14.2. **UN proper shipping name**

14.3. **Transport hazard class(es)**

not determined

14.4. **Packing group**

not determined

14.5. **Environmental hazards**

Land transport (ADR/RID)

not determined

Marine pollutant

not determined

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 determined

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): 16

**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).

**Other regulations, restrictions and prohibition regulations**

**Substance/product listed in the following inventories:**

DSL listed

TSCA listed

**REACH candidate list of substances of very high concern (SVHC) for the approval process.**

According to the available data and / or according to the information provided by the suppliers, the product does not contain any substance that is eligible for inclusion in Annex XIV (list of substances subject to authorization) in accordance with Article 57 in conjunction with Article 59 of REACH.

**Regulation (EC) 1907/2006. material in question applies.Regulation (EC) 1907/2006 (REACH) Annex XIV (list of substances subject to authorization)**

According to the available data and / or according to the information provided by the suppliers, the product does not contain any substance that is considered to be a substance that requires authorization according to REACH Regulation (EC) 1907/2006 Annex XIV.

15.2. **Chemical Safety Assessment**

\*

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**For the following substances of this mixture a chemical safety assessment has been carried out:**

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220-120-9 2634-33-5	1,2-benzisothiazol-3(2H)-one	01-2120761540-60-xxxx

**SECTION 16: Other information** \*

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

Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
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.

**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
EN	European Standard
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, 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

**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.

You can also find current SDSs for our standard products online on our homepage under **Downloads** in the relevant product area.

\* Data changed compared with the previous version