

Article No.: 21215 AZOCOL Z 1  
Print date 05.10.2017 Revision date 02.08.2017  
Version 2.3 Issue date 02.08.2017

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

### 1.1. product identifiers

Article No. (manufacturer/supplier): 21215  
Identification of the substance or mixture AZOCOL Z 1

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

#### Relevant identified uses

Stencil production for screen and textile printing. Reserved for industrial and professional use.

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

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

Kissel + Wolf GmbH  
In den Ziegelwiesen 6 Telephone: 49 6222 578-0  
69168 Wiesloch Telefax: 49 6222 578-100  
Germany E-mail: info@kiwo.de

#### Dept. responsible for information:

RA - Regulatory Affairs  
E-mail ra@kiwo.de

### 1.4. Emergency telephone number

Emergency telephone number +49 6222 578 219

## 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].

Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.

### 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



Warning

##### Hazard statements

H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.

##### Precautionary statements

P280 Wear protective gloves and eye/face protection.

##### contains:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid  
1,2-benzisothiazol-3(2H)-one  
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)  
glycerol, propoxylated, esters with acrylic acid

##### Supplemental Hazard information (EU)

not applicable

### 2.3. Other hazards

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

#### Product description / chemical characterization

**Description** Mixture of components, as listed below, with nonhazardous constituents

#### Hazardous ingredients

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

EC No. CAS No. INDEX No.	REACH No. Chemical name classification: // Remark	Wt %
500-130-2 55818-57-0	01-2119490020-53 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid Skin Sens. 1 H317	10 - 12,5
500-114-5 52408-84-1	urethaneacrylate oligomer Skin Irrit. 2 H315 / Eye Irrit. 2 H319 01-2119487948-12 glycerol, propoxylated, esters with acrylic acid Eye Irrit. 2 H319 / Skin Sens. 1B H317	7 - 8 3 - 5
220-120-9 2634-33-5 613-088-00-6	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	< 0,025
55965-84-9 613-167-00-5	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) Acute Tox. 3 H331 / Acute Tox. 3 H311 / Acute Tox. 3 H301 / Skin Corr. 1B H314 / Skin Sens. 1 H317 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	< 0,025

**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 irregular breathing or respiratory arrest provide artificial respiration.

**Following skin contact**

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing.

**After eye contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**After ingestion**

Seek medical advice immediately. 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**

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media:**

Carbon dioxide Water mist Foam

**Extinguishing media which must not be used for safety reasons:**

strong water jet

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

Gases/vapours, toxic

**5.3. Advice for firefighters**

Provide a conveniently located respiratory protective device.

**Additional information**

The danger areas must be delimited and identified using relevant warning and safety signs. Cool closed containers that are

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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. Remove persons to safety. Do not breathe vapours. 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. Provide good ventilation.
- 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).
- 6.4. **Reference to other sections**  
Observe protective provisions (see chapter 7 and 8).

## SECTION 7: Handling and storage

- 7.1. **Precautions for safe handling**  
**Advices on safe handling**  
Avoid contact with eyes and skin. Do not inhale vapours or mist.  
Do not eat, drink or smoke when using this product.  
Personal protection equipment: refer to section 8.
- 7.2. **Conditions for safe storage, including any incompatibilities**  
**Technical measures and storage conditions**  
Keep container tightly closed in a cool, well-ventilated place.  
**Requirements for storage rooms and vessels**  
Always keep in containers that correspond to the material of the original container. Ensure adequate ventilation of the storage area.  
**Hints on joint storage**  
Keep away from strongly acidic and alkaline materials as well as oxidizers.  
**Further information**  
VCI-storage class, see Chapter 15
- 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**  
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)  
INDEX No. 613-167-00-5 / CAS No. 55965-84-9  
DFG, MAK, TWA: 0,2 mg/m<sup>3</sup>  
Remark: (einatembare Fraktion)
- Additional information**  
TWA : long-term occupational exposure limit value  
STEL : short-term occupational exposure limit value  
Ceiling : peak limitation
- DNEL:**  
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid  
EC No. 500-130-2 / CAS No. 55818-57-0  
DNEL long-term dermal (systemic), Workers: 17,5 mg/kg  
glycerol, propoxylated, esters with acrylic acid  
EC No. 500-114-5 / CAS No. 52408-84-1  
DNEL long-term dermal (systemic), Workers: 1,92 mg/kg  
DNEL long-term inhalative (systemic), Workers: 16,22 mg/m<sup>3</sup>
- PNEC:**

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4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

EC No. 500-130-2 / CAS No. 55818-57-0

PNEC aquatic, freshwater: 0,1 mg/l

PNEC aquatic, marine water: 0,01 mg/l

PNEC aquatic, intermittent release: 1 mg/l

PNEC sediment, freshwater: 35,8 mg/kg

PNEC sediment, marine water: 3,58 mg/kg

PNEC, Soil: 71 mg/kg

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

glycerol, propoxylated, esters with acrylic acid

EC No. 500-114-5 / CAS No. 52408-84-1

PNEC aquatic, freshwater:  $0,0574 \times 10^{-1}$  mg/l

PNEC sediment, freshwater:  $0,1697 \times 10^{-1}$  mg/kg

PNEC sediment, marine water:  $0,1697 \times 10^{-2}$  mg/kg

PNEC, Soil:  $0,0111 \times 10^{-1}$  mg/kg

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

PNEC Secondary Poisoning: 5,6 mg/kg

## 8.2. Exposure controls

### Personal protection equipment

#### Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

#### Hand protection

Chemical resistant protective gloves: DIN EN 374

Recommendation for contact by spatter: Protection Index 2

Permeation time >30 min., e.g. butyl rubber 0,4 mm

Recommendation for direct contact: Protection Index 6

Permeation time >480 min., e.g. nitrile rubber 0,4 mm

#### Eye protection

Wear closed protection glasses. DIN EN 166

#### Protective clothing

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.

## SECTION 9: Physical and chemical properties

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

#### Appearance:

Physical state: liquid  
Colour: depending on coloration

Odour: typical

Odour threshold: not applicable

pH at 20 °C: 3,7

Melting point/freezing point: not applicable

Initial boiling point and boiling range: 100 °C  
Source: water

Flash point: not applicable

Evaporation rate: not applicable

Flammability (solid, gas):  
burning time (s): not applicable

Upper/lower flammability or explosive limits:  
Lower explosion limit: 1,1 Vol-%

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830



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<b>Upper explosion limit:</b>	<b>7,7 Vol-%</b> Source: Triacetin
<b>Vapour pressure at 20 °C:</b>	<b>14,1162 mbar</b>
<b>Vapour density:</b>	<b>not applicable</b>
<b>Relative density:</b>	
<b>Density at 20 °C:</b>	<b>1,06 g/cm<sup>3</sup></b>
<b>Solubility(ies):</b>	
<b>Water solubility (g/L) at 20 °C:</b>	<b>partially soluble</b>
<b>Partition coefficient: n-octanol/water:</b>	<b>see section 12</b>
<b>Auto-ignition temperature:</b>	<b>430 °C</b> Source: Triacetin
<b>Decomposition temperature:</b>	<b>not applicable</b>
<b>Viscosity at 20 °C:</b>	<b>7000 mPa·s</b>
<b>Decomposition temperature (°C):</b>	<b>0</b>
<b>Explosive properties:</b>	<b>not applicable</b>
<b>Oxidising properties:</b>	<b>not applicable</b>
<b>9.2. Other information</b>	
<b>Solid content (%):</b>	<b>33,92 Wt %</b>
<b>solvent content:</b>	
<b>Organic solvents:</b>	<b>0 Wt %</b>
<b>Water:</b>	<b>61 Wt %</b>
<b>Solvent separation test (%):</b>	<b>&lt; 3 Wt % (ADR/RID)</b>

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

### 10.2. Chemical stability

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

### 10.5. Incompatible materials

### 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

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

No data on preparation itself available.

### 11.1. Information on toxicological effects

#### Acute toxicity

Toxicological data are not available.

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

Toxicological data are not available.

#### Respiratory or skin sensitisation

Toxicological data are not available.

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

Toxicological data are not available.

#### Specific target organ toxicity

Toxicological data are not available.

#### Aspiration hazard

Toxicological data are not available.

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

Other observations:

Prolonged or repeated contact with the preparation can lead to irritations of mucous membranes and of skin such as redness, formation of blebs, dermatitis, etc..

#### **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.

#### **Remark**

There is no information available on the preparation itself .

### **SECTION 12: Ecological information**

#### **overall evaluation**

Classification according to Regulation (EC) No 1272/2008 [CLP]  
Do not store at public landfills.

#### **12.1. Toxicity**

No information available.

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

1,2-benzisothiazol-3(2H)-one  
Fish toxicity, LC50: (96 h)

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

### **SECTION 13: Disposal considerations**

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

**Appropriate disposal / Product  
Recommendation**

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

080111 waste paint and varnish containing organic solvents or  
other dangerous substances

#### **packaging**

**Recommendation**

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

### **SECTION 14: Transport information**

**No dangerous good in sense of this transport regulation. This mixture is not classified as dangerous according to international transport regulations (ADR/RID, IMDG, ICAO/IATA).**

#### **14.1. UN number**

not applicable

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

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

not applicable

#### **14.4. Packing group**

not applicable

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**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

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

Packaging >30 l

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

**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**

VOC-value (in g/L): 49,032

**Observe in addition any 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 juvenils according to the 'juvenile work protection guideline' (94/33/EC).  
 calculated with mixing rule

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

**15.2. Chemical Safety Assessment**

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

EC No. CAS No.	Chemical name	REACH No.
500-130-2	4,4'-Isopropylidenediphenol, oligomeric reaction products	01-2119490020-53
55818-57-0	1-chloro-2,3-epoxypropane, esters with acrylic acid	
500-114-5	glycerol, propoxylated, esters with acrylic acid	01-2119487948-12
52408-84-1		

**SECTION 16: Other information**

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

Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Sens. 1B / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
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.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Acute Tox. 3 / H331	Acute toxicity (inhalative)	Toxic if inhaled.
Acute Tox. 3 / H311	Acute toxicity (dermal)	Toxic in contact with skin.
Acute Tox. 3 / H301	Acute toxicity (oral)	Toxic if swallowed.
Skin Corr. 1B / H314	skin corrosion/irritation	Causes severe skin burns and eye damage.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830



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**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 chapter 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.