

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

### 1.1 Product identifier

Trade name: ZZ 385

This safety data sheet pertains to the following products:

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

General use: Fire protection means. Reserved for industrial and professional use.

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

Company name: Karl Zimmermann GmbH

Street/POB-No.: Marconistr. 7-9

Postal Code, city: 50769 Köln

Germany

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E-mail: [info@kzim.de](mailto:info@kzim.de)

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Lars Volkmer,

Telephone: +49 (0)221-97061-160, e-mail [Lars.Volkmer@kzim.de](mailto:Lars.Volkmer@kzim.de)

### 1.4 Emergency telephone number

GIZ-Nord, Göttingen

Telephone: +49 551-19240

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

This mixture is classified as not hazardous.

### 2.2 Label elements

#### Labelling (CLP)

Hazard statements: not applicable

Precautionary statements: not applicable

#### Special labelling

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 risks worthy of mention.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

## SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Chemical characterisation: A mixture of acrylate with additives (halogen-free), not cured

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2120761540-60-xxxx EC No. 220-120-9 CAS 2634-33-5	1,2-Benzisothiazol-3(2H)-one Acute Tox. 4; H302. Acute Tox. 2; H330. Skin Irrit. 2; H315. Eye Dam. 1; H318. Skin Sens. 1A; H317. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. Acute toxicity estimate (ATE): Oral: 450 mg/kg bw. Inhalative, dust/mist: 0,21 mg/L. Specific concentration limits (SCL): Skin Sens. 1A; H317: C ≥ 0.036 % M-factors: Aquatic Acute 1: M = 1. Aquatic Chronic 1: M = 1.	< 0.036 %

The actual concentration or concentration range is withheld as a trade secret.

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

Additional information: Contains Aluminium hydroxide. The maximum workplace exposure limits are, where necessary, listed in section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information: If medical advice is needed, have product container or label at hand.

In case of inhalation: Move victim to fresh air; if necessary, provide artificial respiration or oxygen. In the event of discomfort seek medical treatment.

Following skin contact: Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with soap and plenty of water. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After swallowing: Rinse mouth. Do not induce vomiting. Immediately get medical attention.

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

May cause allergic reactions in already sensitized persons.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

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

May form dangerous gases and vapours in case of fire.

In case of fire may be liberated: Ammonia, phosphorus oxides, carbon monoxide and carbon dioxide.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus and protective clothing to protect skin and eyes.

Additional information:

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

Wear suitable protective clothing. Keep unprotected people away.

Provide adequate ventilation. Take off contaminated clothing and wash it before reuse.

Avoid contact with the substance. Do not breathe vapours.

### 6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

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

Take up mechanically, placing in appropriate containers for disposal. Final cleaning.

### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.

Avoid contact with skin and eyes. Do not breathe vapours.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

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

Requirements for storerooms and containers:

Keep containers tightly closed and at a temperature between 10 °C and 35 °C.

Keep in a cool, well-ventilated place. Keep container dry. Protect from humidity and water.

Shelf life: 12 months (at 23 °C).

Hints on joint storage:

Keep away from food and drinks.

### 7.3 Specific end use(s)

Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Additional information: Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

### Personal protection equipment

#### Occupational exposure controls

Respiratory protection: When vapours form: Use combination filter type A2-P2 according to EN 14387.  
Hand protection: Protective gloves according to EN ISO 374-1.  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.  
Eye protection: Tightly sealed goggles according to EN ISO 16321-1.  
Body protection: Wear suitable protective clothing.  
General protection and hygiene measures:  
Do not breathe vapours. Avoid contact with the substance.  
When using do not eat, drink or smoke.  
Take off contaminated clothing and wash it before reuse.  
Wash hands before breaks and after work.  
Work place should be equipped with a shower and an eye rinsing apparatus.

#### Environmental exposure controls

Refer to "6.2 Environmental precautions".

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	Form: pasty red brown
Odour:	No data available
Melting point/freezing point:	No data available
Boiling point:	No data available
Flammability:	No data available
Lower and upper explosion limit:	No data available
Flash point:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	No data available
Kinematic viscosity:	No data available
Solubility:	No data available

Partition coefficient n-octanol/water (log value):	No data available
Vapour pressure:	No data available
Density:	1.3 - 1.45 g/mL
Relative vapour density:	No data available
Particle characteristics:	Not applicable

## 9.2 Other information

Explosive properties:	No data available
Oxidizing characteristics:	none
Auto-ignition temperature:	No data available

# SECTION 10: Stability and reactivity

## 10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

## 10.2 Chemical stability

Stable under recommended storage conditions.  
Shelf life: 12 months (at 23 °C).  
Directions for use: The product is completely cured after 24 h.

## 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

## 10.4 Conditions to avoid

Protect from humidity and water.  
Keep away from heat.

## 10.5 Incompatible materials

None known

## 10.6 Hazardous decomposition products

Thermal decomposition:	No decomposition when used properly. No data available
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## SECTION 11: Toxicological information

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

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

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

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

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

### 11.2 Information on other hazards

Endocrine disrupting properties: No data available

Other information: No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

Further details: No data available

### 12.2 Persistence and degradability

Further details: No data available

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:  
No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

## 12.6 Endocrine disrupting properties

No data available

## 12.7 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

# SECTION 13: Disposal considerations

## 13.1 Waste treatment methods

### Product

Waste key number: 08 04 10 = waste adhesives and sealants other than those mentioned in 08 04 09.  
Recommendation: Dispose of waste according to applicable legislation.

### Package

Waste key number: 15 01 02 = Plastic packaging  
Recommendation: Dispose of waste according to applicable legislation.  
Handle contaminated packages in the same way as the substance itself.  
Non-contaminated packages may be recycled.

# Section 14. Transport information

## 14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR:  
not applicable

## 14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR:  
Not restricted

## 14.3 Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA-DGR:  
not applicable

## 14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:  
not applicable

## 14.5 Environmental hazards

Dangerous for the environment:  
Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.  
Marine pollutant - IMDG: no

## 14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

## 14.7 Maritime transport in bulk according to IMO instruments

No data available

## SECTION 15: Regulatory information

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

#### National regulations - EC member states

#### Labelling of packaging with <= 125mL content

Hazard statements: EUH208 Contains 1,2-Benzisothiazol-3(2H)-one. May produce an allergic reaction.  
EUH210 Safety data sheet available on request.

Precautionary statements: not applicable

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 75

### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

## SECTION 16: Other information

Wording of the H-phrases under paragraph 2 and 3:

H302 = Harmful if swallowed.  
H315 = Causes skin irritation.  
H317 = May cause an allergic skin reaction.  
H318 = Causes serious eye damage.  
H330 = Fatal if inhaled.  
H400 = Very toxic to aquatic life.  
H410 = Very toxic to aquatic life with long lasting effects.  
EUH208 = Contains 1,2-Benzisothiazol-3(2H)-one. May produce an allergic reaction.  
EUH210 = Safety data sheet available on request.

Reason of change: Changes in section 15: Regulatory information

Date of first version: 7/9/2018

Department issuing data sheet:

see section 1: Department responsible for information

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU)  
2020/878

**ZZ 385**

Material number ZZ® 385

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## Abbreviations and acronyms:

Acute Tox.: Acute toxicity  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
Aquatic Acute: Hazardous to the aquatic environment - acute  
Aquatic Chronic: Hazardous to the aquatic environment - chronic  
AS/NZS: Australian Standards/New Zealand Standards  
Bw: Body weight  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
EC: European Community  
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods  
EN: European Standard  
EQ: Excepted quantities  
EU: European Union  
Eye Dam.: Eye damage  
IATA: International Air Transport Association  
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  
IMDG Code: International Maritime Dangerous Goods Code  
IMO: International Maritime Organization  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
M-factor: Multiplication factor  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and 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  
Skin Irrit.: Skin irritation  
Skin Sens.: Skin sensitisation  
TRGS: Technical Rules for Hazardous Substances  
vPvB: Very persistent and very bioaccumulative