



Rudolf Hensel GmbH  
21039 Börnsen

Date printed 19.06.2023, Revision 14.06.2023

Version 2.0

Page 1 / 12

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

### 1.1 Product identifier

**HENSOMASTIK® Acrylic**

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

#### 1.2.1 Relevant uses

Fire retardant coating

#### 1.2.2 Uses advised against

None known.

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

#### Company

Rudolf Hensel GmbH  
Lauenburger Landstr. 11  
21039 Börnsen / GERMANY  
Phone +49 (0)40-72 10 62 10  
Fax +49 (0)40-72 10 62 52  
Homepage [www.rudolf-hensel.de](http://www.rudolf-hensel.de)  
E-mail [info@rudolf-hensel.de](mailto:info@rudolf-hensel.de)

#### Address enquiries to

#### Technical information

[info@rudolf-hensel.de](mailto:info@rudolf-hensel.de)

#### Safety Data Sheet

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.de) (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

### 1.4 Emergency telephone number

#### Company

+49 (0)40-72 10 62 10 (7:00 - 17:00) 0172 4115390 (17:00 - 07:00)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

No classification.

### 2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

#### Hazard pictograms

#### Hazard statements

none

#### Special labelling

EUH210 Safety data sheet available on request.  
Product treated with preservatives  
METHYLCHLOROISOTHIAZOLINONE/METHYLISOTHIAZOLINONE (3:1).  
Contains: 1,2-benzisothiazol-3(2H)-one, Mixture: 5-chloro-2-methyl-2H-isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1). EUH208 May produce an allergic reaction.

### 2.3 Other hazards

#### Human health dangers

Contains no ingredients with endocrine-disrupting properties.

#### Environmental hazards

Does not contain any PBT or vPvB substances.

#### Other hazards

Contains no ingredients with endocrine-disrupting properties.  
Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

Rudolf Hensel GmbH  
21039 Börnsen

Date printed 19.06.2023, Revision 14.06.2023

Version 2.0

Page 2 / 12

### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
< 0.02	1,2-benzisothiazol-3(2H)-one
	CAS: 2634-33-5, EINECS/ELINCS: 220-120-9, EU-INDEX: 613-088-00-6, Reg-No.: 01-2120761540-60-XXXX
	GHS/CLP: Acute Tox. 4: H302 - Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Eye Dam. 1: H318 - Aquatic Acute 1: H400 - Aquatic Chronic 2: H411, M-Factor (acute): 1
	SCL [%]: $\geq 0.05$ : Skin Sens. 1: H317
< 0.001	Mixture: 5-chloro-2-methyl-2H-isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1)
	CAS: 55965-84-9, EINECS/ELINCS: 611-341-5, EU-INDEX: 613-167-00-5
	GHS/CLP: Acute Tox. 3: H301 - Acute Tox. 2: H310 - Skin Corr. 1C: H314 - Eye Dam. 1: H318 - Skin Sens. 1A: H317 - Acute Tox. 2: H330 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 - EUH071, M-Factor (acute): 100, M-Factor (chronic): 100
	SCL [%]: 0.0015: Skin Sens. 1A: H317, 0.06 - <0.6: Skin Irrit. 2: H315, 0.6: Skin Corr. 1C: H314, 0.06 - <0.6: Eye Irrit. 2: H319, 0.6: Eye Dam. 1: H318

Comment on component parts

For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information	Take off contaminated clothing and wash before reuse.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
Skin contact	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
Eye contact	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.
Ingestion	Get medical advice. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.

### 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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.
Extinguishing media that must not be used	Full water jet.

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

Risk of formation of toxic pyrolysis products.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.  
  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.



Rudolf Hensel GmbH  
21039 Börnsen

Date printed 19.06.2023, Revision 14.06.2023

Version 2.0

Page 3 / 12

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

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

Take up mechanically.

Take up residues with absorbent material (e.g. sand).

Dispose of absorbed material in accordance within the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

The normal safety precautions for handling chemicals must be observed.

Wash hands before breaks and after work.

Use barrier skin cream.

Do not eat, drink, smoke or take drugs at work.

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

Keep only in original container.

Prevent penetration into the ground.

Do not store together with food and animal food/diet.

Keep container tightly closed.

Protect from heat/overheating.

Keep in a cool place. Store in a dry place.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

Rudolf Hensel GmbH  
21039 Börnsen

Date printed 19.06.2023, Revision 14.06.2023

Version 2.0

Page 4 / 12

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

Ingredients with occupational  
exposure limits to be monitored (EU)

not relevant

#### DNEL

Substance
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
Industrial, dermal, Long-term - systemic effects, 0.966 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 6.81 mg/m³
general population, dermal, Long-term - systemic effects, 0.345 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 1.2 mg/m³

#### PNEC

Substance
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
soil, 3 mg/kg soil dw
sediment (freshwater), 4.99 µg/kg sediment dw
sediment (freshwater), 49.9 µg/kg sediment dw
seawater, 0.403 µg/L
freshwater, 4.03 µg/L
sewage treatment plants (STP), 1.03 mg/L

### 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	0.7mm Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Protective clothing (EN 340)
<b>Other</b>	Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	Not required under normal conditions.
<b>Thermal hazards</b>	none
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.



Rudolf Hensel GmbH  
21039 Börnsen

Date printed 19.06.2023, Revision 14.06.2023

Version 2.0

Page 5 / 12

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	pasty
Color	white
Odor	characteristic
Odour threshold	not required
pH-value	6.8 - 7.8
pH-value [1%]	not determined
Boiling point [°C]	not determined
Flash point [°C]	not applicable
Flammability	no
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/cm³]	1.44 - 1.54 (20 °C / 68,0 °F)
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	miscible
Solubility other solvents	not relevant
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	70 000 - 90 000 mPa.s (20°C)
Relative vapour density	not relevant
Evaporation speed	not relevant
Melting point [°C]	not determined
Auto-ignition temperature [°C]	not self-igniting
Decomposition temperature [°C]	not determined
Particle characteristics	not relevant

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

The product is stable under standard conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known.

### 10.4 Conditions to avoid

See SECTION 7

### 10.5 Incompatible materials

not relevant



**Rudolf Hensel GmbH**  
**21039 Börnsen**

Date printed 19.06.2023, Revision 14.06.2023

Version 2.0

Page 6 / 12

#### **10.6 Hazardous decomposition products**

No hazardous decomposition products known.

Rudolf Hensel GmbH  
21039 Börnsen

Date printed 19.06.2023, Revision 14.06.2023

Version 2.0

Page 7 / 12

## SECTION 11: Toxicological information

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

#### Acute oral toxicity

Product
ATE-mix, oral, > 2000 mg/kg
Substance
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
LD50, oral, Rat, 490 - 670 mg/kg bw
Mixture: 5-chloro-2-methyl-2H- isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1), CAS: 55965-84-9
LD50, oral, 64 mg/kg (ECHA. CLH Report)
LD50, oral, Rat, 53 mg/kg

#### Acute dermal toxicity

Product
ATE-mix, dermal, > 2000 mg/kg
Substance
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
LD50, dermal, Rat, > 2000 mg/kg bw
Mixture: 5-chloro-2-methyl-2H- isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1), CAS: 55965-84-9
LD50, dermal, Rabbit, 87.12 mg/kg (ECHA. CLH Report)

#### Acute inhalational toxicity

Product
ATE-mix, inhalativ (mist), > 5 mg/l 4h
Substance
Mixture: 5-chloro-2-methyl-2H- isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1), CAS: 55965-84-9
LC50, inhalative, Rat, 0.171 mg/l/4h (ECHA. CLH Report)

#### Serious eye damage/irritation

Does not contain a relevant substance that meets the classification criteria.  
Based on the available information, the classification criteria are not fulfilled.  
Toxicological data of complete product are not available.

Substance
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
in vitro, OECD 437, Can cause irreversible damage to the eyes.

#### Skin corrosion/irritation

Does not contain a relevant substance that meets the classification criteria.  
Based on the available information, the classification criteria are not fulfilled.  
Toxicological data of complete product are not available.

Substance
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
dermal, Rabbit, In vivo study, non-irritating

#### Respiratory or skin sensitisation

Based on the available information, the classification criteria are not fulfilled.  
Toxicological data of complete product are not available.

Substance
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5

Rudolf Hensel GmbH  
21039 Börnsen

Date printed 19.06.2023, Revision 14.06.2023

Version 2.0

Page 8 / 12

dermal, Guinea pig, In vivo study, sensitising

**Specific target organ toxicity — single exposure**

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

**Specific target organ toxicity — repeated exposure**

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

Substance

1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5

NOAEL, oral, Rat, 69 - 150 mg/kg bw/day, The effects observed are not sufficient for classification.

**Mutagenicity**

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

Substance

1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5

in vitro, OECD 476, no adverse effect observed

**Reproduction toxicity**

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

**- Fertility**

Substance

1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5

NOAEL, oral, Rat, 112 mg/kg bw/day, no adverse effect observed

**- Development**

Substance

1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5

NOAEL, oral, Rat, 112 mg/kg bw/day, no adverse effect observed

**Carcinogenicity**

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

**Aspiration hazard**

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled.

**General remarks**

none

**11.2 Information on other hazards**

**11.2.1 Endocrine disrupting properties**

Contains no ingredients with endocrine-disrupting properties.

**11.2.2 Other information**



Rudolf Hensel GmbH  
21039 Börnsen

Date printed 19.06.2023, Revision 14.06.2023

Version 2.0

Page 9 / 12

## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
LC50, (96h), fish, 2.15 - 22 mg/L
EC50, (72h), Algae, 70 - 150 µg/L
EC50, (48h), Invertebrates, 2.9 - 2.94 mg/L
Mixture: 5-chloro-2-methyl-2H-isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1), CAS: 55965-84-9
LC50, (96h), Oncorhynchus mykiss, 0.19 mg/l
EC50, (48h), Daphnia magna, 0.18 mg/l
ErC50, Skeletonema costatum, 0.003 mg/l

### 12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

### 12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

### 12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

### 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

### 12.7 Other adverse effects

None known.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

#### Product

For recycling, consult manufacturer.  
Coordinate disposal with the disposal contractor/authorities if necessary.

#### Waste no. (recommended)

080112

#### Contaminated packaging

Uncontaminated packaging may be taken for recycling.  
Packaging that cannot be cleaned should be disposed of as for product.

#### Waste no. (recommended)

150102



Rudolf Hensel GmbH  
21039 Börnsen

Date printed 19.06.2023, Revision 14.06.2023

Version 2.0

Page 10 / 12

#### SECTION 14: Transport information

##### 14.1 UN number or ID number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

##### 14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

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

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

##### 14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable



Rudolf Hensel GmbH  
21039 Börnsen

Date printed 19.06.2023, Revision 14.06.2023

Version 2.0

Page 11 / 12

#### 14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

### SECTION 15: Regulatory information

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

EEC-REGULATIONS	2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014
Comment on component parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances $\geq 0.1\%$ that are subject to authorisation.
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances $\geq 0.1\%$ that are restricted.
TRANSPORT-REGULATIONS	ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)
NATIONAL REGULATIONS (EU):	
- Observe employment restrictions for people	none
- VOC (2010/75/CE)	< 1%

#### 15.2 Chemical safety assessment

not applicable

### SECTION 16: Other information

#### 16.1 Hazard statements (SECTION 3)

EUH071 Corrosive to the respiratory tract.  
H410 Very toxic to aquatic life with long lasting effects.  
H330 Fatal if inhaled.  
H314 Causes severe skin burns and eye damage.  
H310 Fatal in contact with skin.  
H301 Toxic if swallowed.  
H411 Toxic to aquatic life with long lasting effects.  
H400 Very toxic to aquatic life.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.  
H315 Causes skin irritation.  
H302 Harmful if swallowed.

Rudolf Hensel GmbH  
21039 Börnsen

Date printed 19.06.2023, Revision 14.06.2023

Version 2.0

Page 12 / 12

## 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ATE = acute toxicity estimate  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
EL50 = Median effective loading  
ELINCS = European List of Notified Chemical Substances  
EmS = Emergency Schedules  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
IVIS = In vitro irritation score  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
LL50 = Median lethal loading  
LQ = Limited Quantities  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
STP = Sewage Treatment Plant  
TLV®/TWA = Threshold limit value – time-weighted average  
TLV®STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

## 16.3 Other information

### Classification procedure

### Modified position

SECTION 2 been added: Mixture: 5-chloro-2-methyl-2H- isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1)

SECTION 2 been added: 1,2-benzisothiazol-3(2H)-one

SECTION 2 been added: The product is required to be labelled in accordance with regulation CLP.

SECTION 2 been added: Contains no ingredients with endocrine-disrupting properties.

SECTION 9 been added: no

SECTION 9 deleted: not applicable

SECTION 9 been added: liquid

Copyright: Chemiebüro®