

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

**Revision date:** 03-Jan-2017

**Print date:** 26-Jun-2018

**Version:** 3.31

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Rhein Chemotechnik  
für den besseren Beton

## PLASTOLITH A

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

#### 1.1. Product identifier

**Trade name/designation:**

PLASTOLITH A

**Other means of identification:**

PLASTOLITH A (LP) Product identifier 10001

**Article No.:**

10000

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

**Use of the substance/mixture:**

Concrete Additive

Reserved for industrial and professional use.

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

**Supplier (manufacturer/importer/only representative/downstream user/distributor):**

Rhein-Chemotechnik GmbH

F&E

Gewerbepark Siebenmorgen 8

53547 Breitscheid

GERMANY

**Telephone:** +49 2638 9317-0

**Telefax:** +49 2638 9317-13

**E-mail:** info@rhein-chemotechnik GmbH

**Website:** www.rhein-chemotechnik.com

**E-mail (competent person):** walk@rhein-chemotechnik.com

#### 1.4. Emergency telephone number

24h: +49 551 19240

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification acc. to Regulation (EC) No 1272/2008 [CLP]:**

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation ( <i>Eye Dam. 1</i> )	H318: Causes serious eye damage.	Calculation method.
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	Calculation method.

#### 2.2. Label elements

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

**Hazard pictograms:**



**GHS05**

Corrosion

**Signal word:** Danger

**Hazard components for labelling:**

Sulfonic acids, petroleum, sodium salts

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### hazard statements for health hazards

H315	Causes skin irritation.
H318	Causes serious eye damage.

### Precautionary statements Prevention

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

### Precautionary statements Response

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P315	Get immediate medical advice/attention.

### 2.3. Other hazards

#### Adverse human health effects and symptoms:

May cause an allergic skin reaction. aerosol or mist formation: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification acc. to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 68608-26-4 EC No.: 271-781-5 REACH No.: 01-2119527859-22	<b>Sulfonic acids, petroleum, sodium salts</b> Eye Dam. 1, Skin Irrit. 2 <b>Danger</b> H315-H318	5 - 10 Wt %
CAS No.: 2682-20-4 EC No.: 220-239-6	<b>2-methyl-2H-isothiazol-3-one</b> Skin Corr. 1B, Eye Dam. 1, STOT SE 3, Acute Tox. 3, Skin Sens. 1, Aquatic Acute 1 <b>Danger</b> H301-H311-H314-H317-H318-H335-H400	< 0.005 Wt %
CAS No.: 2634-33-5 EC No.: 220-120-9	<b>1,2-benzisothiazol-3(2H)-one</b> Eye Dam. 1, Acute Tox. 4, Skin Irrit. 2, Skin Sens. 1, Aquatic Acute 1 <b>Danger</b> H302-H315-H317-H318-H400	< 0.005 Wt %

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended.

#### Following inhalation:

Provide fresh air. Get medical advice/attention if you feel unwell.

#### In case of skin contact:

Remove contaminated, saturated clothing immediately. Wash immediately with: Water and soap. If skin irritation or rash occurs: Get medical advice/attention. In case of skin irritation, consult a physician.

#### After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### After ingestion:

Rinse mouth. Get medical advice/attention if you feel unwell.

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

Serious eye damage/eye irritation. Causes skin irritation. May cause an allergic skin reaction.

### 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:

Product does not burn. Use extinguishing measures to suit surroundings.

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

No special fire protection measures are necessary.

#### Hazardous combustion products:

Possible in traces: Gases/vapours, toxic.

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Avoid contact with eyes and skin. Special danger of slipping by leaking/spilling product. Remove persons to safety.

##### Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

#### 6.1.2. For emergency responders

##### Personal protection equipment:

Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### For containment:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

#### For cleaning up:

Water

### 6.4. Reference to other sections

Safe handling: see section 7.

Personal protection equipment: see section 8.

Disposal: see section 13.

### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

##### Advices on safe handling:

Avoid contact with skin, eyes and clothes. Wear personal protection equipment (refer to section 8).

##### Fire prevent measures:

No special measures are necessary.

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### Environmental precautions:

Discharge into the environment must be avoided.

### Advices on general occupational hygiene

When using do not eat, drink or smoke. Wash hands and face before breaks and after work and take a shower if necessary. Apply skin care products after work.

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

#### Technical measures and storage conditions:

Keep container tightly closed in a cool place.

#### Requirements for storage rooms and vessels:

Floors should be impervious, resistant to liquids and easy to clean. Keep/Store only in original container.

#### Hints on storage assembly:

Keep away from food, drink and animal feedingstuffs.

**Storage class:** 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

#### Further information on storage conditions:

Protect from sunlight.

### 7.3. Specific end use(s)

#### Recommendation:

Plastificator for zero slump concrete  
Reserved for industrial and professional use.

#### Industrial sector specific solutions:

Concrete admixture, irritation

#### Giscode:

BZM 2

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Limit value - type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
DFG (DE)	2-methyl-2H-isothiazol-3-one CAS No.: 2682-20-4	① 0.2 mg/m <sup>3</sup> ② 0.4 mg/m <sup>3</sup> ⑤ einatembare Fraktion (Reaktionsgemisch, bestehend aus 5-Chlor-2-methyl-2H-isothiazol-3-on und 2-Methyl-2H-isothiazol-3-on (3:1))

#### 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

No data available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. generation/formation of aerosols: Devices with local exhaust / Technical ventilation of workplace

#### 8.2.2. Personal protection equipment



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### Eye/face protection:

Eye glasses with side protection (DIN EN 166).

### Skin protection:

Tested protective gloves must be worn (DIN EN 374).

Suitable material: NBR (Nitrile rubber)

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. The exact break through time has to be obtained from the protective glove manufacturer and must be observed. Check leak tightness/ impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

### Respiratory protection:

Usually no personal respirative protection necessary. Wear breathing apparatus if exposed to vapours/ dusts/aerosols. Filtering device (full mask or mouthpiece) with filter: A1P2

### Other protection measures:

Wear suitable protective clothing.

### 8.2.3. Environmental exposure controls

No data available

### 8.3. Additional information

No data available

## SECTION 9: Physical and chemical properties

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

#### Appearance

**Physical state:** Liquid

**Colour:** light yellow - green

**Odour:** characteristic

#### Safety relevant basis data

parameter		at °C	Method	Remark
pH	6 - 8	20 °C		
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	≈ 100 °C			
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	<i>not applicable</i>			
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	<i>not applicable</i>			
Upper/lower flammability or explosive limits	<i>not applicable</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	1 - 1.03 g/cm <sup>3</sup>	21 °C		
Bulk density	<i>not applicable</i>			
Water solubility	completely miscible			
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

### 9.2. Other information

No data available

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## PLASTOLITH A

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is not: Combustible

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

#### 10.4. Conditions to avoid

UV-radiation/sunlight, Frost.

#### 10.5. Incompatible materials

Oxidising agent, strong; Acid, concentrated; Alkali (lye), concentrated

#### 10.6. Hazardous decomposition products

In case of fire may be liberated:

Possible in traces: Gases/vapours, toxic.

#### Further information

No data available

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute oral toxicity:

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

##### Acute dermal toxicity:

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

##### Acute inhalation toxicity:

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

##### Skin corrosion/irritation:

Causes skin irritation.

##### Serious eye damage/irritation:

Causes serious eye damage.

##### Respiratory or skin sensitisation:

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

May cause an allergic skin reaction. Aerosol: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

##### Germ cell mutagenicity:

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

##### Carcinogenicity:

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

##### Reproductive toxicity:

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

##### STOT-single exposure:

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

##### STOT-repeated exposure:

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

##### Aspiration hazard:

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

##### Additional information:

No data available

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### SECTION 12: Ecological information

#### 12.1. Toxicity

##### Aquatic toxicity:

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

##### Assessment/classification:

The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

#### 12.2. Persistence and degradability

##### Additional information:

On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely.

#### 12.3. Bioaccumulative potential

##### Accumulation / Evaluation:

No indication of bioaccumulation potential.

#### 12.4. Mobility in soil

No data 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

No data available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Waste treatment options

##### Appropriate disposal / Product:

For recycling, contact manufacturer. Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

##### Appropriate disposal / Package:

Completely emptied packages can be recycled.

##### Other disposal recommendations:

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Collect in closed and suitable containers for disposal.

#### 13.2. Additional information

No data available

### SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

#### 14.1. UN-No.

not relevant

#### 14.2. UN proper shipping name

not relevant

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

not relevant

#### 14.4. Packing group

not relevant

#### 14.5. Environmental hazards

not relevant

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### 14.6. Special precautions for user

not relevant

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not relevant

#### Additional information:

No data available

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

##### Other regulations (EU):

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

#### 15.1.2. National regulations

##### [DE] National regulations

#### Water hazard class (WGK)

##### WGK:

2 - deutlich wassergefährdend

##### Remark:

Classification according to VwVwS, Annex 4.

#### Berufsgenossenschaftliche Vorschriften (BGV)

Berufsgenossenschaft Rohstoffe und chemische Industrie (BGRIC), Merkblätter:

M 004 - Reizende Stoffe / Ätzende Stoffe

M 050 - Tätigkeiten mit Gefahrstoffen

M 053 - Arbeitsschutzmaßnahmen bei Tätigkeiten mit Gefahrstoffen

M 062 - Lagerung von Gefahrstoffen

### 15.2. Chemical Safety Assessment

No data available

### 15.3. Additional information

No data available

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

### 16.3. Key literature references and sources for data

No data available

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

#### Classification acc. to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation ( <i>Eye Dam. 1</i> )	H318: Causes serious eye damage.	Calculation method.
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## PLASTOLITH A

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H301	Toxic if swallowed.
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.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.

### 16.6. Training advice

No data available

### 16.7. Additional information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.