



BE SURE. BUILD SURE.

Page 1/8

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 02.09.2022

Version number 14

Revision: 02.09.2022

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

· **1.1 Product identifier**

· **Trade name** MC-Montan Shotcrete HA 01

· **Article number:** 1127

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

No further relevant information available.

· **Application of the substance / the mixture**

Accelerator

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

· **Manufacturer/Supplier:** MC-Bauchemie Müller GmbH & Co. KG  
Am Kruppwald 1-8  
D-46238 Bottrop  
Tel.: +49(0)2041-101-0  
Fax.: +49(0)2041-101-400  
E-Mail: info@mc-bauchemie.de

MC-Bauchemie AG  
Hagackerstr. 10  
CH-8953 Dietikon  
Tel.: +44-7400510  
Fax : +44-7400533

· **Informing department:** msds@mc-bauchemie.de

· **1.4 Emergency telephone number:**

Tel.: +49 / (0)700 24112112 (MCR)  
Tel.: +48612864565

### SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

Eye Dam. 1 H318 Causes serious eye damage.

· **2.2 Label elements**

· **Labelling according to**

**Regulation (EC) No 1272/2008** The product is classified and labelled according to the GB CLP regulation.

· **Hazard pictograms**



GHS05

· **Signal word**

Danger

· **Hazard-determining**

**components of labelling:**

Aluminiumsulfat-14-hydrat  
2,2'-iminodiethanol

· **Hazard statements**

H318 Causes serious eye damage.

(Contd. on page 2)

GB



BE SURE. BUILD SURE.

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 02.09.2022

Version number 14

Revision: 02.09.2022

**Trade name MC-Montan Shotcrete HA 01**

(Contd. of page 1)

- **Precautionary statements** P280 *Wear eye protection / face protection.*  
P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*  
P310 *Immediately call a POISON CENTER/doctor.*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** *Mixture consisting of the following components.*

· **Dangerous components:**

CAS: 16828-12-9	Aluminiumsulfat-14-hydrat	50-70%
EINECS: 233-135-0	Eye Dam. 1, H318	
CAS: 111-42-2	2,2'-iminodiethanol	≥1-<3%
EINECS: 203-868-0	STOT RE 2, H373; Eye Dam. 1, H318; Skin Irrit. 2, H315	

- **Additional information** *For the wording of the listed hazard phrases refer to section 16.*

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After skin contact** *Instantly wash with water and soap and rinse thoroughly.*
- **After eye contact** *Rinse opened eye for several minutes under running water.  
Call a doctor immediately.*
- **After swallowing** *Rinse out mouth and then drink plenty of water.  
Seek medical treatment.*
- **4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.*
- **4.3 Indication of any immediate medical attention and special treatment needed** *No further relevant information available.*

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** *Use fire fighting measures that suit the environment.*
- **5.2 Special hazards arising from the substance or mixture** *No further relevant information available.*

(Contd. on page 3)



BE SURE. BUILD SURE.

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 02.09.2022

Version number 14

Revision: 02.09.2022

Trade name MC-Montan Shotcrete HA 01

(Contd. of page 2)

- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** No special measures required.
- **6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

(Contd. on page 4)



BE SURE. BUILD SURE.

### Safety data sheet according to 1907/2006/EC, Article 31

Printing date 02.09.2022

Version number 14

Revision: 02.09.2022

**Trade name MC-Montan Shotcrete HA 01**

(Contd. of page 3)

**· DNELs**

**111-42-2 2,2'-iminodiethanol**

Oral	DNEL	0.06 mg/kg bw/Tag (ArL)
Dermal	DNEL	0.13 mg/kg bw/day (ArL)
Inhalative	DNEL	1 mg/m <sup>3</sup> (ArL)

**· PNECs**

**111-42-2 2,2'-iminodiethanol**

PNEC	100 mg/l (Kla)
	0.002 mg/l (Mew)
	0.02 mg/l (Suw)
PNEC	0.00665 mg/kg dwt (Bod)
	0.0092 mg/kg dwt (Sediment)
	0.092 mg/kg dwt (Fresh water sediment)

**· Additional information:** The lists that were valid during the compilation were used as basis.

**· 8.2 Exposure controls**

**· Personal protective equipment**

**· General protective and hygienic measures**

Instantly remove any soiled and impregnated garments.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes.

**· Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

**· Protection of hands:**

Protective gloves.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**· Material of gloves**

After use of gloves apply skin-cleaning agents and skin cosmetics.  
Nitrile rubber, NBR  
Butyl rubber, BR

**· Penetration time of glove material**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**· Eye protection:**

Breakthrough time: > = 60 min  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**· Body protection:**

Safety glasses  
Tightly sealed safety glasses.  
Protective work clothing.

GB

(Contd. on page 5)



BE SURE. BUILD SURE.

### Safety data sheet according to 1907/2006/EC, Article 31

Printing date 02.09.2022

Version number 14

Revision: 02.09.2022

Trade name MC-Montan Shotcrete HA 01

(Contd. of page 4)

#### SECTION 9: Physical and chemical properties

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

##### · General Information

##### · Appearance:

· Form:	Suspension
· Colour:	White
· Smell:	Characteristic

· pH-value at 20 °C: 2.5

##### · Change in condition

· Melting point/freezing point:	< 0 °C
· Initial boiling point and boiling range:	100 °C

· Flash point: Not applicable

· Self-inflammability: Product is not selfigniting.

· Explosive properties: Product is not explosive.

· Steam pressure: Not determined.

· Density at 20 °C 1.42 g/cm<sup>3</sup>

##### · Solubility in / Miscibility with

Water: Fully miscible

· 9.2 Other information No further relevant information available.

#### SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

##### · 10.2 Chemical stability

##### · Thermal decomposition /

conditions to be avoided: No decomposition if used according to specifications.

##### · 10.3 Possibility of hazardous reactions

No dangerous reactions known

##### · 10.4 Conditions to avoid

No further relevant information available.

##### · 10.5 Incompatible materials:

No further relevant information available.

##### · 10.6 Hazardous

decomposition products: No dangerous decomposition products known

#### SECTION 11: Toxicological information

##### · 11.1 Information on toxicological effects

##### · Acute toxicity

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

##### · LD/LC50 values that are relevant for classification:

16828-12-9 Aluminiumsulfat-14-hydrat

Oral	LD50	>5000 mg/kg (rat)
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(Contd. on page 6)



BE SURE. BUILD SURE.

### Safety data sheet according to 1907/2006/EC, Article 31

Printing date 02.09.2022

Version number 14

Revision: 02.09.2022

**Trade name MC-Montan Shotcrete HA 01**

(Contd. of page 5)

Dermal	LD50	>5000 mg/kg (rat)
<b>111-42-2 2,2'-iminodiethanol</b>		
Oral	LD50	300-2000 mg/kg (rat)
	NOAEL	50 mg/kg (rat)
Dermal	LD50	12200 mg/kg (rbt)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity:

#### 16828-12-9 Aluminiumsulfat-14-hydrat

LC50/96h >1000 mg/l (Danio rerio)

EC50/48h >160 mg/l (Daphnia magna)

#### 111-42-2 2,2'-iminodiethanol

EC50/72h 1-10 mg/l (Pseudokirchneriella subcapitata)

LC50/96h >100 mg/l (Pimephales promelas)

EC50/48h 10-100 mg/l (Ceriodaphnia dubia)

NOEC 0.1 mg/l (Daphnia magna)

>1 mg/l (fish)

### 12.2 Persistence and degradability

No further relevant information available.

### 12.3 Bioaccumulative potential

No further relevant information available.

### 12.4 Mobility in soil

No further relevant information available.

#### Additional ecological information:

##### General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

### 12.5 Results of PBT and vPvB assessment

#### PBT:

Not applicable.

#### vPvB:

Not applicable.

(Contd. on page 7)



BE SURE. BUILD SURE.

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Version number 14

Revision: 02.09.2022

Trade name MC-Montan Shotcrete HA 01

· 12.6 Other adverse effects No further relevant information available.

(Contd. of page 6)

#### SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

#### SECTION 14: Transport information

· 14.1 UN-Number

· ADR, IMDG, IATA Void

· 14.2 UN proper shipping name

· ADR, IMDG, IATA Void

· 14.3 Transport hazard class(es)

· ADR, ADN, IMDG, IATA

· Class Void

· 14.4 Packing group

· ADR, IMDG, IATA Void

· 14.5 Environmental hazards:

· Marine pollutant: No

· 14.6 Special precautions for user Not applicable.

· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

· UN "Model Regulation": Void

#### SECTION 15: Regulatory information

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

No further relevant information available.

· 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

#### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

(Contd. on page 8)





BE SURE. BUILD SURE.

Page 8/8

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 02.09.2022

Version number 14

Revision: 02.09.2022

**Trade name MC-Montan Shotcrete HA 01**

(Contd. of page 7)

- **Relevant phrases**
  - H315 Causes skin irritation.*
  - H318 Causes serious eye damage.*
  - H373 May cause damage to organs through prolonged or repeated exposure.*
  
- **Department issuing data specification sheet:** *Environment protection department.*
- **Abbreviations and acronyms:**
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*
  - ICAO: International Civil Aviation Organisation*
  - ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)*
  - IMDG: International Maritime Code for Dangerous Goods*
  - IATA: International Air Transport Association*
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals*
  - EINECS: European Inventory of Existing Commercial Chemical Substances*
  - ELINCS: European List of Notified Chemical Substances*
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)*
  - DNEL: Derived No-Effect Level (UK REACH)*
  - PNEC: Predicted No-Effect Concentration (UK REACH)*
  - LC50: Lethal concentration, 50 percent*
  - LD50: Lethal dose, 50 percent*
  - PBT: Persistent, Bioaccumulative and Toxic*
  - vPvB: very Persistent and very Bioaccumulative*
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2*
  - Eye Dam. 1: Serious eye damage/eye irritation – Category 1*
  - STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2*
  
- **\* Data compared to the previous version altered.**

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