



BE SURE. BUILD SURE.

Page 1/8

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 05.04.2024

Version number 31


Revision: 05.04.2024

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name** MC-Montan Shotcrete HA 01
- **Relevant identified uses of the substance or mixture and uses advised against** *No further relevant information available.*
- **Application of the substance / the mixture** *Accelerator*
- **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*

2 Hazards identification

- **Classification of the substance or mixture**
*Skin Corr. 3 H316 Causes mild skin irritation.
Eye Dam. 1 H318 Causes serious eye damage.*
- **Label elements**
- **GHS label elements** *The product is classified and labelled according to the Globally Harmonised System (GHS).*
- **Hazard pictograms**

GHS05
- **Signal word** *Danger*
- **Hazard-determining components of labelling:** *Aluminium sulphate, tetradecahydrate
2,2'-iminodiethanol*
- **Hazard statements** *Causes mild skin irritation.
Causes serious eye damage.*
- **Precautionary statements** *Wear eye protection / face protection.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.*

(Contd. on page 2)



BE SURE. BUILD SURE.

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 05.04.2024

Version number 31

Revision: 05.04.2024

Trade name MC-Montan Shotcrete HA 01

(Contd. of page 1)

If skin irritation occurs: Get medical advice/attention.

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

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

· **Dangerous components:**

CAS: 16828-12-9	Aluminium sulphate, tetradecahydrate Eye Dam. 1, H318	30-60%
CAS: 111-42-2	2,2'-iminodiethanol Repr. 2, H361; STOT RE 2, H373; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315	≥1-<3%

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

4 First aid measures

- **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.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

(Contd. on page 3)



BE SURE. BUILD SURE.

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 05.04.2024

Version number 31

Revision: 05.04.2024

Trade name MC-Montan Shotcrete HA 01

(Contd. of page 2)

- **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.

7 Handling and storage

- **Handling**
- **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.
- **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.
- **Storage class** 12

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**
- **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.

· DNELs

CAS: 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 ³ (ArL)

· PNECs

CAS: 111-42-2 2,2'-iminodiethanol

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

(Contd. on page 4)



BE SURE. BUILD SURE.

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 05.04.2024

Version number 31

Revision: 05.04.2024

Trade name MC-Montan Shotcrete HA 01

(Contd. of page 3)

- **Additional information:** *The lists that were valid during the compilation were used as basis.*
- **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 or when application is performed at confined area with adequate mechanical ventilation meeting local authority requirements, 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
After use of gloves apply skin-cleaning agents and skin cosmetics.*
- **Material of gloves** *Nitrile rubber, NBR
Butyl rubber, BR
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.*
- **Penetration time of glove material** *Breakthrough time: > = 60 min
The exact breakthrough time must be obtained from the protective glove manufacturer and must be observed.*
- **Eye protection:** *Not required.*
- **Body protection:** *Protective work clothing.*

9 Physical and chemical properties

· 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

(Contd. on page 5)



BE SURE. BUILD SURE.

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 05.04.2024

Version number 31

Revision: 05.04.2024

Trade name MC-Montan Shotcrete HA 01

(Contd. of page 4)

- **Self-inflammability:** Product is not selfigniting.
- **Explosive properties:** Product is not explosive.
- **Steam pressure at 20 °C:** 23 hPa
- **Density at 20 °C** 1.42 g/cm³
- **Solubility in / Miscibility with Water:** Fully miscible
- **Viscosity:**
dynamic: Not determined.
kinematic: Not determined.
- **Other information**

No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

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

CAS: 16828-12-9 Aluminium sulphate, tetradecahydrate

Oral LD50 >5000 mg/kg (rat)

Dermal LD50 >5000 mg/kg (rat)

CAS: 111-42-2 2,2'-iminodiethanol

Oral LD50 300-2000 mg/kg (rat)

NOAEL 50 mg/kg (rat)

Dermal LD50 12200 mg/kg (rabbit)

(Contd. on page 6)



BE SURE. BUILD SURE.

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 05.04.2024

Version number 31

Revision: 05.04.2024

Trade name MC-Montan Shotcrete HA 01

(Contd. of page 5)

- **Primary irritant effect:**
- **Serious eye damage/irritation** Strong irritant with the danger of severe eye injury.
- **Respiratory or skin sensitisation** No sensitizing effect known.
- **Additional toxicological information:** The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

CAS: 16828-12-9 Aluminium sulphate, tetradecahydrate

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

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

CAS: 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)

- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **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.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 7)



BE SURE. BUILD SURE.

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 05.04.2024

Version number 31

Revision: 05.04.2024

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

(Contd. of page 6)

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|--|-----------------|
| · UN-Number
· ADR, IMDG, IATA | Void |
| · UN proper shipping name
· ADR, IMDG, IATA | Void |
| · Transport hazard class(es)
· ADR, ADN, IMDG, IATA
· Class | Void |
| · Packing group
· ADR, IMDG, IATA | Void |
| · Environmental hazards:
· Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Void |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

- **Department issuing data specification sheet:** Environment protection department.
- **Contact:**
- **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)

(Contd. on page 8)



BE SURE. BUILD SURE.

Page 8/8

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 05.04.2024

Version number 31

Revision: 05.04.2024

Trade name MC-Montan Shotcrete HA 01

(Contd. of page 7)

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

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 (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Skin Corr. 3: Skin corrosion/irritation – Category 3

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Repr. 2: Reproductive toxicity – Category 2

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

· * **Data compared to the previous version altered.**

AE