



BE SURE. BUILD SURE.

Page 1/7

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

Printing date 05.04.2024

Version number 16



Revision: 05.04.2024

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

- **Product identifier**
- **Trade name** MC-Montan Shotcrete HA 02
- **Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- **Application of the substance / the mixture** Concrete/Mortar admixtures
- **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**
Acute Tox. 4 H332 Harmful if inhaled.
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 GHS07
- **Signal word** Danger
- **Hazard-determining components of labelling:** aluminium sulphate
- **Hazard statements** Harmful if inhaled.
Causes serious eye damage.
- **Precautionary statements** Avoid breathing dust/fume/gas/mist/vapours/spray.
Use only outdoors or in a well-ventilated area.
Wear eye protection / face protection.

(Contd. on page 2)

AE

Safety data sheet

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

Printing date 05.04.2024

Version number 16

Revision: 05.04.2024

Trade name MC-Montan Shotcrete HA 02

(Contd. of page 1)

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Identification number(s):** void

· **Chemical characterisation:** Mixtures

· **Description:** Mixture consisting of the following components.

· **Dangerous components:**

CAS: 10043-01-3	aluminium sulphate	10-30%
	Eye Dam. 1, H318; Acute Tox. 4, H332; Acute Tox. 5, H303	

4 First aid measures

· **Description of first aid measures**

· **General information** No special measures required.

· **After inhalation** Supply fresh air; consult doctor in case of symptoms.

· **After skin contact** The product is not skin irritating.

· **After eye contact** Rinse opened eye for several minutes under running water.

· **After swallowing** In case of persistent symptoms consult doctor.

5 Firefighting measures

· **Extinguishing media**

· **Suitable extinguishing agents** CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· **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.

(Contd. on page 3)

Safety data sheet

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

Printing date 05.04.2024

Version number 16

Revision: 05.04.2024

Trade name MC-Montan Shotcrete HA 02

(Contd. of page 2)

- **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).
- **Reference to other sections** No dangerous materials are released.

7 Handling and storage

- **Handling**
- **Precautions for safe handling** No special measures required.
- **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: 10043-01-3 aluminium sulphate

Oral	DNEL	3.4 mg/kg bw/Tag (ArL)
Inhalative	DNEL	20.2 mg/m ³ (ArL)

· PNECs

CAS: 10043-01-3 aluminium sulphate

PNEC	20 mg/l (Kla)
------	---------------

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures** The usual precautionary measures should be adhered to in handling the chemicals.
- **Breathing equipment:** Not required.

(Contd. on page 4)

Safety data sheet

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

Printing date 05.04.2024

Version number 16

Revision: 05.04.2024

Trade name MC-Montan Shotcrete HA 02

(Contd. of page 3)

- **Protection of hands:** The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
- **Material of gloves** -
- **Penetration time of glove material** -
- **Eye protection:** Not required.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

- Form: Liquid
- Colour: Light yellow
- Smell: Characteristic

- **pH-value at 20 °C:** 3.6

· Change in condition

- Melting point/freezing point: Not determined
- Initial boiling point and boiling range: >100 °C

- **Flash point:** Not applicable

- **Explosive properties:** Product is not explosive.

- **Steam pressure:** Not determined.

- **Density at 20 °C** 1.37 g/cm³

· Solubility in / Miscibility with

- Water: Not miscible or difficult to mix

· Viscosity:

- dynamic at 20 °C: 100 mPas
- 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.

(Contd. on page 5)

Safety data sheet

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

Printing date 05.04.2024

Version number 16

Revision: 05.04.2024

Trade name MC-Montan Shotcrete HA 02

(Contd. of page 4)

- **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: 10043-01-3 aluminium sulphate

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50/4 h	5 mg/l (rat)

- **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:** When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
The material is not subject to classification according to EC lists in the last version.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

CAS: 10043-01-3 aluminium sulphate

LC50/96h	>0.247 mg/l (Danio rerio)
EC50/48h	>0.176 mg/l (Daphnia magna)
ErC50/72h	0.24 mg/l (Pseudokirchneriella subcapitata)

- **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.

(Contd. on page 6)

Safety data sheet

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

Printing date 05.04.2024

Version number 16

Revision: 05.04.2024

Trade name MC-Montan Shotcrete HA 02

· **Other adverse effects**

No further relevant information available.

(Contd. of page 5)

13 Disposal considerations

· **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.

14 Transport information

· **UN-Number**

· **ADR, ADN, IMDG, IATA**

Void

· **UN proper shipping name**

· **ADR, ADN, 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.

· **Transport/Additional information:**

Not dangerous according to the above specifications.

· **UN "Model Regulation":**

Void

15 Regulatory information

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

No further relevant information available.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

AE

(Contd. on page 7)



BE SURE. BUILD SURE.

Page 7/7

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

Printing date 05.04.2024

Version number 16

Revision: 05.04.2024

Trade name MC-Montan Shotcrete HA 02

(Contd. of page 6)

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)

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. 5: Acute toxicity – Category 5

Acute Tox. 4: Acute toxicity – Category 4

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

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

AE