

Safety Data Sheet

Lime sludge

1. Identification of the substance and manufacturer

Chemical name of the substance:

Calcium carbonate

Trade name:

Lime sludge (synonyms: softening sludge, calcium carbonate sludge)

EC nr: 207-439-9; **CAS nr:** 471-34-1

REACH nr: 01-2119486795-18-xxxx

The full registration numbers of individual manufacturers are available at www.aquaminerals.com

Uses of the substance:

Inorganic fertiliser (authorised under the Dutch Fertiliser Act).

Identification of the distributor of the substance:

AquaMinerals B.V. (Supplier)

Origin of the lime sludge:

The substance is a product of the softening of drinking water using the precipitation or crystallisation process. Lime-containing sludge can also be produced as a result of the filtration of drinking water over (porous) limestone.

Telephone number in case of emergency:

European emergency number: 112

2. Hazards

The substance is not classified as hazardous under the CLP regulations.

3. Composition/information on ingredients

Main ingredient: Calcium carbonate

Composition (percentage by weight based on dry substance):

CaCO ₃	:	85	-	100%
Inert (sand)	:	<0.1	-	15%
Fe	:	<0.1	-	5%
Al	:	<0.1	-	0.3%
Mg	:	<0.1	-	2%
Mn	:	<0.1	-	0.4%
Dry matter	:	20	-	40%

4. First-aid measures

Under normal use: N/a

Other measures:

Ingestion:	In large quantities, consult doctor
Inhalation:	N/a
Skin contact:	N/a
Eye contact:	Rinse with water; consult doctor

5. Fire-fighting measures

Lime sludge is non-combustible. All commonly available extinguishing media can be used.

6. Accidental release measures

Rinse with water.

Avoid contact with acids.



7. Handling and storage

Handling: No special measures.
Storage: Store preferably in tanks or silos.
Store separately from acids.

8. Exposure controls/personal protection

Eye contact: Safety glasses
Inhalation: None
Skin contact: None

9. Physical and chemical properties

Physical state: Thin to thick liquid
Colour: White to light brown
Odour: Neutral
Melting point (CaCO₃): Decomposes at T > 450°C
Relative density: 1.15-1.40 gr/cm³
Solubility
CaCO₃ in water: 0.0166 gr/l at 20°C
pH (dissolved) 7-9 in a saturated CaCO₃ solution at 25°C
Reaction with acid: Soluble with release of CO₂.

10. Stability and reactivity

Stability: the substance is stable.

Reactivity: the substance reacts with acids giving off CO₂, which in closed spaces can replace/push out the air. At higher temperatures (> 450°C) the substance can decompose giving off CO₂.

11. Toxicological information

The substance is not toxic.

Detailed information is contained in the Safety Data Report: Calcium Carbonate. This document is available on request from AquaMinerals.

12. Ecological information

The substance is not ecotoxic.

Detailed information is contained in the Safety Data Report: Calcium Carbonate. This document is available on request from AquaMinerals.

13. Disposal considerations

Dispose according to national regulations for non-hazardous, non-combustible substances.

14. Transport information

Transport according to national, European (EU) and international (OECD, ADR, IMDG, IATA) regulations for non-hazardous substances.

15. Regulatory information

The substance is not classified as hazardous according to (EG) No 1272/2008 (CLP).

This Safety Data Sheet is not legally required but a service to downstream users.

16. Other information

Modifications in this version.

This is version 2 since the REACH registration.

Need more information?

Detailed information is contained in the Safety Data Report: Calcium Carbonate. This document is available on request from AquaMinerals.

Disclaimer

The above information presents the safety data for the product calcium carbonate. All the information is based on current knowledge. The information is intended as a guideline for safely managing this product, as well as its storage, processing, transport and disposal. Modifying the information or using it for other products is prohibited. Mixing, grinding and/or processing calcium carbonate with other products might render this information no longer entirely applicable to the new material. The user is responsible for taking the necessary precautionary measures, as well as for ensuring that the information is complete and sufficient for the safe use of this product.



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