

EC Safety Data Sheet

TERRAquell



Manufacturer'

dornburger zement GmbH & Co KG
In der Oberaue
07778 Dorndorf-Steudnitz
Germany

Phone: 0049 / (0)36427 - 8 61-0

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1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the product

Product name: TERRAquell

1.2 Use of the preparation

Additive for water drilling

1.3 Manufacturer / Supplier identification

Manufacturer: dornburger zement GmbH & Co. KG
Street: In der Oberaue
Postcode / Town: 07778 Dorndorf-Steudnitz
Country: Germany
Phone: 0049 / (0)36427 – 8610
Fax: 0049 / (0)36427 – 22295
Information available from: Quality Assurance Department
Phone: 0049 / (0)36427 – 861140

1.4 Emergency information

Toxin information from Mainz University Hospital
Phone: 0049 / (0)6131 – 19 24 0

2. Composition/Information on components

2.1 Chemical characterisation

Mixture of:
- Aluminium silicates of naturally ground clay (Mixture of montmorillonite, kaolinite, illite, quartz)

Indication	CAS-Nr.
montmorillonite	1318-93-0
kaolinite	1318-74-7
illite	12173-60-3
quartz	14808-60-7

2.2 Dangerous contents

N.A. (pursuant to hazardous substances regulation - GefStoffV)

3. Possible hazards

If it has a powdery consistency, the product contains fine quartz sand (avoid dust development). Lengthy inhalation in high concentrations may damage the respiratory tract.

4. First aid measures

- 4.1 Inhalation** Take patient into fresh air. Coughing up.
- 4.2 Skin contact** Remove saturated clothing. Wash skin.
- 4.3 Eye contact** Rinse the eyes under running water holding the eyelid open (for approx. 10 minutes). Do not rub the eyes dry because additional cornea damage may be caused by mechanical stress. Maybe seek medical attention.
- 4.4 Ingestion:** No specific actions required.

5. Fire fighting measures

The product is not inflammable either in the condition as supplied or when mixed ready for use. Extinguishing agents and fire fighting measures are to be tailored to the surrounding fire.

6. Accidental release measures

- 6.1 **Personnel measures** See instructions for safe handling in point 7.1. If necessary protect leaked material with tarpaulins to prevent it blowing away.
- 6.2 **Environmental protection measures** water polluting class 0 (“not water-polluting”)
- 6.3 **Cleaning / Mopping up procedure** Mop up (dry) powder mechanically, checking wind direction if necessary and minimise dropping height when rearranging. Do not sweep dry residues but remove them with water, slip hazard when adding water.

7. Handling and storage

- 7.1 **Handling**
 - Instructions for safe handling: Avoid dust development.
 - Fire and explosion protection: Not applicable.
- 7.2 **Storage**
 - Requirements on storage areas and containers: Protect from moisture in sealed containers and enclosed areas; dust extraction in accordance with Federal Emissions Protection Law and Technical Regulations for Air.
 - Storage information: Not applicable.
 - Other details for storage: Not applicable.
 - Storage class: Not applicable.

8. Exposure controls and personal protection

8.1 Exposure limit values

CAS No.	Designation	Type of limit value	Value	Unit
14808-60-7	Quartz (dust)	MAC	0,15	mg/m ³ (E)
-	General dust	General dust limit value	3	mg/m ³ (A)
			10	mg/m ³ (E)

The specified values are taken from the current lists (for example TRGS 900)¹. (E): Fraction that can be inhaled (A): Fraction that can pass through the alveoli

These figures refer to the currently applicable MAC list. In countries other than Germany the applicable local regulations as regards maximum workplace concentrations have to be observed.

8.2 Personal safety equipment

- General protection and hygiene measures: Avoid contact with the eyes. Clear skin with water. Dry and brush soaked clothes.
- Respiratory protection: Use a particulate filtering half-face mask FFP1 (white) if the exposure limit values are exceeded (possible, for example when mixing) (see information sheet BRG 190²).
- Hand protection: Not applicable.
- Eye protection: Use tight-fitting goggles in the event of dust development or if there is a risk of splashing.
- Skin protection: Not applicable.
- Body protection: Not applicable.

9. Physical and chemical properties

9.1 General information

Form: powder
Colour: light
Odour: neutral

9.2 Safety-relevant data

	Value / Range	Unit / Remarks
pH value (T=20°C)	7 – 8	In mixed form for proper usage
Boiling point / Boiling range	Not applicable	
Flash point	Not applicable	Solid material not inflammable
Explosion risk	Not explosive	
Fire propagation properties	None	
Density (T=20°C)	2.4	g/cm ³

No further details of pc properties under RL 91/155/EEC have been given since they are not relevant.

10. Stability and reactivity

No specific characteristics.

11. Toxicological information

Non-toxic (if properly used no health hazards known).

12. Ecological information

- 12.1 Details on elimination (Persistence and degradability)** Not biologically degradable.
- 12.2 Behaviour in environmental compartments** Cannot be assimilated.
- 12.3 Eco-toxic effects** Not-toxic.
- 12.4 Other ecological information** Slight turbidity of water possible.

13. Disposal considerations

- 13.1 Product (unused residue) Recommendation** Clays may be disposed of as non-toxic matter in a backfill site under observance of the relevant regulations.
- 13.2 Contaminated packaging Recommendation** Empty packaging completely and send for recycling. See points 7.1 and 8.2 for safe handling instructions.

14. Transport information

The product is not a dangerous substance in the sense of the transport regulations.

