

Safety data sheet

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

1.1 Product identifier

Identification of the mixture: Q-REP G Article number: 2009-1036

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

Identified uses: Construction chemistry
Not recommended use: Data not available.

1.3 Details of the supplier providing the safety data sheet

Supplier: Concretum Construction Science AG, Steinackerstrasse 56, 8302 Kloten
Person responsible: safety@concretum.com

1.4 Emergency telephone number

Toxicological Information Centre: 145 (within Switzerland)
 +41 44 251 51 51 (from abroad)
Concretum Construction Science AG: +41 44 445 13 46
 www.concretum.com

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Regulation (EC) No 1272/2009 (CLP)

Hazard class	Hazard class and category	Hazard statement
Serious eye damage / eye irritation	Eye Dam. 1	H318
Skin irritation	Skin irrit. 2	H315
May irritate respiratory tract	STOT Se 3	H335

2.2 Label elements

Regulation (EC) No 1272/2009 (CLP)

Pictograms

GHS05



Signal word

Corrosivity

GHS07



Signal word

Hazard

Hazard statements

H318 Causes severe eye damage.

H315 Causes skin irritation.

H335 May cause respiratory tract irritation.

Precautionary statements

P101 If medical advice is required, have packaging or identification label ready.

P102 Keep out of the reach of children.

P103 Read the identification label before use.

P280 Wear protective gloves/protective clothing/eye protection/face protection

P305 + P351 + P338 IN CASE OF CONTACT WITH EYES: Rinse gently with water for several minutes. Remove contact lenses if present and possible. Continue rinsing.

P310 Immediately call TOXICOLOGICAL INFORMATION CENTRE/Medical Service.

P362 Remove contaminated clothing.

P302+P352 IF IN TOUCH WITH SKIN: Wash with plenty of water.

P501 Dispose of contents / container according to local / regional / national / international regulations.

2.3 Other hazards

No ingredient PBT/ vPvB is present

Other risks: no other risks.

SECTION 3: Composition/information on ingredients

3.1 Substances

N.A.

3.2 Mixture

Hazardous ingredients:	CAS-No	Concentration
Cement	65997-15-1	< 31 %

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Take off contaminated clothing.

Following inhalation

Fresh air supply. Seek medical advice if symptoms occur.

Following skin contact

Wash skin with soap and plenty of water. Remove contaminated clothing and wash before the next use.

Following eye contact

Call TOXICOLOGICAL INFORMATION CENTRE/ doctor immediately.

Following ingestion

Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

N.A.

4.3 Indication of immediate medical attention and special treatment required

N.A.

SECTION 5: Firefighting measures

5.1 Suitable extinguishing media

Water spray, CO₂, powder, water mist. Adjust firefighting measures to the surrounding area.

5.2 Special hazards arising from the substance or mixture

None.

5.3 Advice for firefighting

Special protective equipment for fire-fighting: Adapt to surrounding fire.

SECTION 6: Accidental release measures

6.1 Personal precautions

Use personal safety equipment (see also chapter 8).

6.2 Environmental precautions

Do not allow large quantities to enter drains or watercourses.

6.3. Methods for cleaning

Sweep up or vacuum up spilled material and place in suitable container for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid eye and skin contact. The usual precautionary measures when handling chemicals must be taken.

Do not eat, drink or smoke while processing the product. Use only in well-ventilated rooms and avoid direct inhalation of vapours.

7.2 Conditions for safe storage taking into account incompatibilities

Requirements to be met by storage rooms and containers: Store only in unopened original container.

Store in a cool place. According to the water hazard class, the country-specific regulations for the storage of substances hazardous to water must be observed.

Information on storage in combination: Do not store together with acids. Store separately from foodstuffs.

Further information on storage conditions:

Store cool and dry in well closed containers. Protect from humidity and water.

Recommended storage temperature: 5 - 30 ° C.

7.3 Specific end uses

No other relevant information available.

SECTION 8: Exposure controls / personal protection

8.1 Parameters to be monitored

Components with limit values that require monitoring at the workplace:

Type of assessment value	Assessment value		Origin
Switzerland: Maximum Work Concentration Value (MAK) value	8h	5 mg/m ³ (E)	SUVA: Limit value at workplace

E= Respirable dust factor

8.2 Exposure controls and monitoring

Individual protection measures (personal protective equipment)

Respiratory protection Not necessary with good room ventilation.

Hand protection Wear suitable protective gloves. (Chemical protective gloves tested according to EN374)

Type of material NBR (nitrile rubber)

Eye protection Safety goggle with side protection

Body protection Work clothing (personal protective equipment)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Physical state	powder
b) Colour	grey
c) Odour	odourless
d) Melting point/ freezing point:	> 1250° C
e) Boiling point:	N.A.
f) Flammability:	N.A.
g) Lower and upper explosive limits:	N.A.
h) Flash point:	N.A.
i) Ignition temperature:	N.A.
j) Decomposition temperature:	N.A.
k) pH (value):	11-13 saturated solution
l) Kinematic viscosity	N.A.
m) Solubility:	until 1.5 g/l
n) n-octanol/water:	N.A.
p) Bulk density:	0.9-1.8 g/cm ³
q) Relative vapour density:	N.A.
r) Particle properties:	N.A.

9.2 Other information

No other relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity to be expected.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reaction: stable

10.4 Conditions to avoid

Avoid moisture ingress, otherwise lumps may form and product quality may be reduced.

10.5 Incompatible materials

None

10.6 Hazardous decomposition products

None

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not to be classified as acutely toxic.

Exposure route	Endpoint	Value	Species
dermal	LD50	2.000 mg/l	Rabbit

Skin corrosion / irritation

Skin and mucous membrane irritating effect.

Serious eye damage / eye irritation

Strongly irritating to eyes, danger of serious eye damage.

Respiratory or skin sensitisation

There is no evidence of respiratory sensitisation. Based on the available data, the classification criteria are not considered to be met.

Summary of evaluation of the CMR properties

Is not classified as germ cell mutagen, carcinogenic or toxic for reproduction.

Special target organ toxicity – single exposure

Not to be classified as specific target organ toxicant (single exposure).

Special target organ toxicity – repeated exposure

Not to be classified as specific target organ toxicant (repeated exposure).

Aspiration hazard

Not to be classified as hazardous for aspiration.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

No data available.

If in eyes

Causes severe eye damage.

If inhaled

No data available.

Other information

None

SECTION 12: Ecological information

12.1 Toxicity

According to 1272/2008/EC: Not to be classified as hazardous to waters.

Cement/binder is not considered to be dangerous to the environment. Ecotoxicological studies with Portland cement to *Daphnia magna* (U.S. EPA, 1994a) [reference (6)] and *Selenastrum Coli* (U.S. EPA, 1993) [reference (7)] have shown only a low toxic effect. Therefore, the LC50 and EC50 values could not be determined [Reference (8)]. No toxic effects on sediments could be determined either [Reference (9)]. However, the release of large quantities of cement into water can lead to an increase in the pH value and thus be toxic to aquatic life under special circumstances.

12.2 Process of degradability

Not applicable, as cement/binder is an inorganic mineral material. Cement/binder residues remaining during hydration do not represent a toxicological risk.

12.3 Bioaccumulative potential

Not applicable, as cement/binder is an inorganic mineral material. Cement/binder residues remaining during hydration do not represent a toxicological risk.

12.4 Mobility in soil

Not applicable, as cement/binder is an inorganic mineral material. Cement/binder residues remaining during hydration do not represent a toxicological risk.

12.5 Results of PBT and vPvB assessment

Not applicable, as cement/binder is an inorganic mineral material. Cement/binder residues remaining during hydration do not represent a toxicological risk.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

RS 814.610 Regulation on the transport of waste (VeVA)

RS 814.600 Technical Regulation on Waste (VeVA)

RS 814.610.1 Regulation of the UVEK on lists for the transport of waste

Recycle if possible. Dispose of in officially approved landfills or incinerators. Proceed according to local and national regulations. Contact a local waste disposal service.

Product

Dispose of in accordance with the local official regulations. Do not discharge into the sewerage system. Dispose of the cured product in the same way as concrete waste and concrete slurry.

Packaging

Completely emptied containers must be sent to a suitable recycling facility (e.g. container recycling).

SECTION 14: Transport information

No dangerous goods according to the transport regulations.

14.1 UN number

N.A.

14.2 UN proper shipping name

N.A.

14.3 Transport hazard class(es)

N.A.

14.4 Packing group

N.A.

14.5 Environmental hazards

N.A.

14.6 Special precautions for user

N.A.

Road and rail transport (ADR-RID)

N.A.

Air transport (IATA)

N.A.

Maritime transport (IMDG)

N.A.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

N.A.

SECTION 15: Regulatory information

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

- **Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)**
Not listed.
- **Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)**
Not listed.
- **Regulation 850/2004/EC on persistent organic pollutants (POP)**
Not listed.
- **Restrictions according to REACH, Titel VIII**
None.
- **List of substances subject to authorisation (REACH, Annex XIV)/SVHC-candidate list**
Not listed.
- **Seveso Directive (2012/18/EU (Seveso III))**
Not assigned.
- **Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)-Annex II**
Not listed.
- **Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)**
Not listed.

- **Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)**
Not listed.
- **Regulation 98/2013/EU on the marketing and use of precursors to explosives**
Not listed.
- **Regulation 111/2005/ laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
Not listed.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this substance.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of abbreviations
ADN	European Agreement concerning the international carriage of dangerous goods
ADR	European Agreement concerning the international carriage of dangerous goods by road
AwSV	Regulation on installations for handling substances hazardous to water
CAS	Database of chemical compounds and their unique key, the CAS Registry Number, Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, mutagenic or toxic to reproduction
DGR	Dangerous Goods Regulations
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IATA	International air transport association
IATA/DGR	Dangerous Goods Regulations for the air transport
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
MARPOL	Marine Pollutant
NLP	No-Longer Polymer
PBT	Persistent, bioaccumulative and toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the international carriage of dangerous goods by rail

SVHC	Substance of Very High Concerns
vPvB	Very Persistent and very Bioaccumulative

The information contained in this safety data sheet is based on our knowledge at the time of publication. The information is intended for a safety and health assessment by a specialist. Regardless of this, the applicable national or local regulations must be complied with. There is no transferability to other products or to other substances which have been mixed with the product described in this safety data sheet.
