

SAFETY DATA SHEET

Ready-mix concrete

SECTION 1. Identification of the substance/mixture and of the company

1.1 Product identifier: Ready-mix concrete

1.2 Relevant identified uses of the product and uses advised against

Intended use: Foundation, floor and bearing constructions

1.3 Details of the supplier of the safety data sheet

Manufacturer: Thomas Betong AB
Postal address: Box 5162, 402 26 GÖTEBORG
Country: Sweden
Tel. +46 (0) 104 50 50 00
E-mail: info@thomasbetong.se
Web: www.thomasbetong.se

1.4 Telephone emergency number

+46 (0) 104 50 50 00 (Office hours)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

According to regulation (EC) No 1272/2008 (CLP)

Skin Irrit. 2	H315	Causes skin irritation.
Eye Dam. 1	H318	Causes serious eye damage.

2.2 Label elements

According to regulation (EC) No 1272/2008 (CLP)



Signal word: Danger

Hazard statements:

H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

2.3 Other hazards

The substance/mixture does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

SECTION 3. Composition/information on ingredients

3.2 Mixtures**Declaration of ingredients according to CLP (EG) No 1272/2008:**

Hazardous components	CAS No EC No	REACH Reg No Index No	Content %	Classification
Portland cement	65997-15-1 266-043-4	N.a.	4-20	Skin Irrit. 2 – H315 Skin. Sens. 1B – H317 Eye Dam.1 – H318 STOT SE 3 – H335

For full text of the H - statements and other abbreviations see section 16 "Other information".

SECTION 4. First aid measures

4.1 Description of first aid measures

General: If symptoms persist, or if in doubt, consult a physician. Never give food or drink to an unconscious person.

Inhalation: Unlikely route of exposure as the mixture is a viscous mass.

Skin contact: Rinse with plenty of water and soap. Remove contaminated clothes. Obtain medical attention if irritation persists.

Eye contact: Rinse immediately with soft water jet for about 10 minutes. Keep eyelids wide open and remove any contact lenses. Consult a physician if symptoms persist.

Ingestion: Rinse mouth. Do NOT induce vomiting. Drink plenty of water and consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

May cause temporary irritation with redness and burning sensation upon contact with skin and eyes.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

The product is not combustible. Use extinguishing media appropriate for surrounding fire.

5.2 Special hazards arising from the substance or mixture

The product is not combustible, and there is no information on specific physical hazards associated with the product.

5.3 Advice to firefighters

When fighting fires in the vicinity of the product: take protective measures based on surrounding conditions.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Wear suitable gloves and safety glasses or face protection.

6.2 Environmental precautions

Prevent from reaching drains, sewer or waterway.

6.3 Methods and material for containment and cleaning up

Let spillage harden and handle it as construction waste. Concrete hardens after about an hour. If unhardened product has reached the drain, flush with large amounts of water.

6.4 Reference to other sections

Information regarding safe handling, see section 7.

Information regarding personal protection, see section 8.

Information regarding waste treatment, see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. When handling unhardened product, wear suitable safety gloves, and safety glasses or face protection. Handle the product separately from strong acids.

7.2 Conditions for safe storage, including any incompatibilities

The product cannot be stored as it hardens in about an hour.

7.3 Specific end use(s)

See section 1.2 and user instructions.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

There is no OEL for this product.

8.2 Exposure control

There must be access to eye wash at the workplace.

8.2.1 Engineering controls

Choose work methods so that skin contact will be minimized.

8.2.2 Personal protection

Remove contaminated clothes and wash the skin thoroughly with soap and water after the work is done. Wash contaminated clothing before reuse. Wash hands and other exposed areas before eating, drinking, smoking or toilet visits and when leaving work.

8.2.2.1 Eye protection: Use safety glasses or face shield that meet the criteria according to EN 166 (EU).

8.2.2.2 Hand protection Wear suitable protective gloves that are water, abrasion and alkali resistant. For prolonged or repeated handling, nitrile gloves are recommended. The thickness of the glove material should be > 0.4 mm. Breakthrough time (maximum of bearing the gloves) > 480 min. Recommended glove standard according to EN 374.

Skin protection: Wear suitable waterproof protective clothing and waterproof boots if there is a risk of skin contact. The pants must be outside of the shafts to prevent concrete entering the boots. Remember to use long pants, even if it is hot outside. Always avoid, if possible, to kneel on the fresh concrete during work.

8.2.2.3 Respiratory protection: Use respiratory equipment with particle filter P2 when grinding or drilling in hardened product.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Viscous mass
Colour	Grey
Odour threshold	Odourless
pH	>12
Melting point/freezing point	No data available/not applicable
Initial boiling point	No data available/not applicable
Flash point	No data available/not applicable
Evaporation rate	No data available/not applicable
Flammability (solid phase, gas)	No data available/not applicable
Upper/lower flammability limit or explosive limit	The product is not explosive.
Vapour pressure	No data available/not applicable
Vapour density	No data available/not applicable
Relative density at 20 °C	2400 kg/m ³
Solubility in water	Soluble

Date: 2017-01-05

Version no 1.0

Product name: Ready-mix concrete

Partition coefficient: n-octanol/water	No data available/not applicable
Auto-ignition temperature	The product is not self-igniting.
Decomposition temperature	No data available/not applicable
Viscosity	Thixotropic
Explosive properties	No data available/not applicable
Oxidizing properties	No data available/not applicable
Organic solvents	0%

9.2 Other information

No data available/not applicable

SECTION 10. Stability and reactivity

10.1 Reactivity

There are not any known.

10.2 Chemical stability

Fresh concrete hardens after about an hour.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Avoid contact with strong acids.

10.6 Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity: The product has not any known acute toxicity.

Irritation: The product irritates the skin.

Corrosive: The product may cause severe eye damage.

Sensitization: The level of chromium in the cement has been reduced and the risk for developing chrome allergy by contact with fresh concrete is therefore reduced. People with chrome allergy should, however, avoid skin contact with fresh concrete.

Toxicity after repeated dosing: No data available.

Summary of evaluation of the CMR properties

The substances in this mixture do not meet the criteria for classification as CMR category 1 or 2 in accordance with 67/548 / EEC.

Information on effects via the most likely routes of exposure:

Ingestion: May cause irritation in the throat and the digestive system.

Inhalation: Unlikely route of exposure as the mixture is a viscous mass.

Date: 2017-01-05

Version no 1.0

Product name: Ready-mix concrete

Skin contact: May cause irritation with redness and burning sensation.

Eye contact: Risk of severe eye damage.

SECTION 12. Ecological information

12.1 Toxicity

The product is not classified as dangerous to the environment.

12.2 Persistence and degradability

The product consists of inorganic material and is therefore not biological degradable.

12.3 Bioaccumulative potential

Bioaccumulation is not expected.

12.4 Mobility in soil

Unhardened product is soluble in water and may be spread in the aquatic environment.

12.5 Results of PBT and vPvB assessment

The substance/mixture does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6 Other adverse effects

Release to the aquatic environment may change the pH locally and cause adverse effects.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Let unhardened rest products harden and handle them as construction waste. Hardened rest products do not compose hazardous waste.

Suggested EWC code (unhardened product)

17 01 06* Mixtures of, or separate fractions of concrete, bricks, tiles and ceramic containing hazardous substances

Suggested EWC code (hardened product)

17 01 01 Concrete

SECTION 14. Transport information

The product is not classified as dangerous goods.

14.1 UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

Not applicable.

SECTION 15. Regulatory information

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

15.2 Chemical safety assessment

A chemical safety assessment has not been performed for this product.

SECTION 16. Other information

The above information is in accordance with the above legislation and are based on knowledge and experience at the date of issue. It is the user's obligation to use this product in a safe manner and comply with all applicable laws and regulations on the use of the product

Explanations to hazard statements in section 3

Skin Irrit. 2	H315	Causes skin irritation.
Skin Sens. 1	H317	May cause an allergic reaction.
Eye Dam. 1	H318	Causes serious eye damage.
STOT SE 3	H335	May cause respiratory irritation.

This safety data sheet has been produced by Chemgroup Scandinavia AB.