

## CONCRETE

# Ready Mixed Concrete

SEPTEMBER 2023

## 1 / IDENTIFICATION OF SUBSTANCES

**PRODUCT NAME**

Ready mixed Concrete.

**APPLICATION**

Ready mixed concrete is designed to enable the user to cast the plastic material into the required shape prior to hardening.

## 2 / HAZARD IDENTIFICATION

**WET CONCRETE****Eyes:** Contact with eyes may cause irritation, inflammation and alkali burns.**Skin:** Contact with skin may result in irritant contact dermatitis and/or ulceration due to the combination of wetness, alkalinity, and abrasiveness of the cement mixture. Allergic contact dermatitis may be caused by individual sensitivity to chromium compounds which occur in cement.**Ingestion:** Would cause severe irritation due to alkaline burn to the lining of the throat and gut. In most cases of ingestion the more immediate problem will be potential blockage of the airways and gullet.**DRY CONCRETE****Inhalation:** No hazard as supplied but inhalation of silica particles in dust caused by cutting/surface treatment of hardened concrete may cause respiratory damage.

## 3 / COMPOSITION/INFORMATION ON INGREDIENTS

**GENERAL**

A mixture of natural aggregate, Portland cement and water. Other ingredients may include Ground Granulated Blast Furnace Slag (GGBS), Pulverised Fuel Ash (PFA) and Admixtures may be added to improve product handling characteristics or the properties in the plastic or hardened state.

**HAZARDOUS INGREDIENTS**

Cement (mainly calcium oxide) up to 20%.

**HAZARDOUS FOR SUPPLY CLASSIFICATION**

Irritant.

## 4 / FIRST AID MEASURES

**WET CONCRETE****Eyes:** The eyes should be immediately and thoroughly irrigated with water for at least 10 minutes and then medical advice should be sought.**Skin:** Contaminated skin should be washed with soap and cold running water as soon as possible. Particular attention should be paid to any wounds which should be covered with suitable dressing. They will require additional cleaning as any cementitious/ alkali materials left in an open wound could cause severe issues. This includes contact through contaminated clothing. Any contaminated clothing should be removed immediately and washed before re-use.**DRY CONCRETE****Eye contact:** Irrigate thoroughly with water, seek medical attention**Inhalation:** Not relevant.**Ingestion:** Drink plenty of water and seek Immediate medical attention. Do not induce vomiting.

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## 5 / FIRE FIGHTING MEASURES

**NON-FLAMMABLE**

## 6 / ACCIDENTAL RELEASE MEASURES

**Personal protection:** Avoid contact with skin or eyes.. Wear impervious protective clothing.**Environmental Protection:** The product should be prevented from entering watercourses, drains, sewers etc. Spillages will solidify in approximately 4 hours.**Method of cleaning:** Any spillage should be recovered immediately while material is still plastic and area washed thoroughly if applicable.

## 7 / HANDLING AND STORAGE

**Wet Handling:** Personal Protective Equipment to prevent skin contact is required when handling wet material. Clothing should be worn so as to avoid fresh concrete falling in and being trapped, i.e. with sleeves over gloves and trouser legs over boots, not tucked inside. If splashes in the eye are likely, eye protection should be worn.**Dry concrete:** Minimise creation of dust where possible**Storage:** Not applicable.

## 8 / EXPOSURE CONTROLS/PERSONAL PROTECTION

### WET CONCRETE

**Eyes:** Eye protection should be suitable for protection against either impact or chemical splash and should conform to BSEN specifications.**Skin:** Skin contact should be avoided by the use of impervious protective clothing.**Inhalation:** Protective equipment not required when material is wet.

### DRY CONCRETE

**Inhalation:** Maximum Exposure Limits (MEL) for inhalants is set by the Health & Safety Commission. These are published in HSE Guidance Note EH40.

#### Workplace Exposure Limits

Total Inhalable Nuisance Dust: 10.0 mg/m<sup>3</sup> (WEL)Total Respirable Nuisance Dust: 4.0 mg/m<sup>3</sup> (WEL)Respirable Crystalline Silica: 0.1 mg/m<sup>3</sup> (WEL)

All are given as maximum concentrations and expressed as an 8 Hour Time Weighted Average (8Hr TWA)

**Hand protection:** Abrasive resistant gloves**Eye protection:** Goggles to approved HSE standard

### INDUSTRIAL HYGIENE

Personal hygiene is important. Suitable washing facilities should be provided. Facilities for cleaning and storing personal protective equipment and where necessary, changing facilities should also be provided.

## 9 / PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Grey semi-solid.**Density:** Up to 2500 kg/m<sup>3</sup>.

Detailed properties vary according to specific mix however, all concretes are: Abrasive; Alkaline (typically pH value 10 – 14)

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## 10 / STABILITY AND REACTIVITY

Chemically stable and un-reactive under normal conditions

## 11 / TOXICOLOGICAL INFORMATION

### WET CONCRETE

**Eye contact:** May cause irritation or alkali burns.

**Skin contact:** May cause alkali burns and acute allergic dermatitis in people sensitised to chromium compounds. Long term exposure may cause irritant contact dermatitis, which can lead to sensitisation of the skin to chromium compounds.

### DRY CONCRETE

**Eye contact:** May cause transient irritation

**Skin contact:** No harm likely

**Inhalation:** Inhalation of large quantities of dust may cause lung damage and in extreme cases may lead to premature death.

**Ingestion:** No harm likely

## 12 / ECOLOGICAL INFORMATION

When used as intended no environmental impact is anticipated. Do not allow materials to enter watercourses, drains or sewers.

## 13 / DISPOSAL CONSIDERATIONS

No-hazardous, disposal subject to local Authority requirements and regulations. Allow to harden and dispose as inert material

## 14 / DISPOSAL CONSIDERATIONS

This product is not classified as hazardous for transport. No vehicle labelling required

## 15 / REGULATORY INFORMATION

Chemicals (Hazard Information and packaging for supply)

### REGULATIONS

**Classifications:** NONE

Workplace Exposure Limits – HSE Guidance Note EH40

## 16 / OTHER INFORMATION

**Training advice:** Wear and use PPE

## IMPORTANT NOTES

The purpose of this data sheet is to provide Health, Safety and Environmental Guidance on the safe handling, use and disposal of Ready mixed Concrete supplied by Clubb Concrete Ltd. The information contained in this Safety Data Sheet was considered the best available at the date of issue and should alert purchasers and/or users to the usual hazards in handling the supplied material when using it within the ordinary range of uses for which such material is normally supplied.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations

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