

CA16 COSSH SHEETS CONCRETE

Ready-mixed Concrete

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

Company: Tudor Griffiths Limited or Powys Ready Mixed Concrete Company Limited
Wood Lane Quarry, Ellesmere, Shropshire, SY12 OHY

Telephone: 01691 62 62 62

Products: Ready-mixed Concrete

Intended use: Various applications in construction and civil engineering projects.

Hazard Information

2. COMPOSITION

Concrete

Mixture of natural aggregates, cement and water. Other ingredients may include admixtures, Pulverised Fuel Ash (PFA) and Ground Granulated Blast-furnace Slag (GGBS). Such additions are made to alter/improve the working characteristics of the material or to affect/enhance its properties once hardened.

3. HAZARDS IDENTIFICATION

Wet Concrete

Contact with eyes may cause irritation or, in severe cases, alkali burns. Skin contact may provide allergic contact dermatitis in those sensitised to chromium compounds which occur in cement.

Prolonged skin contact may result in irritant contact dermatitis and/or ulceration.

Prolonged skin contact may cause sensitisation to chromium compounds.

Dry concrete dust

Inhalation of silica particles in dust created by cutting or surface treatment of hardened concrete containing high silica aggregates (e.g. flint, quartzite, granite) may cause respiratory damage.

Emergency Action

4. FIRST AID MEASURES

Wet concrete

Eye contact: Irrigate eye(s) immediately with clean water for at least 10 minutes. Seek immediate medical attention.

Skin contact: Wash thoroughly with clean water as soon as contamination occurs.

Includes indirect contact through saturated clothing which should be changed.

Dry concrete dust

Eye contact: Irrigate eye(s) immediately with clean water. Seek medical attention.

Skin contact: Wash with clean water

Inhalation/ingestion: Remove patient to fresh air.

6. ACCIDENTAL RELEASE MEASURES

Personal protection

Avoid contact with skin and eyes

Wear impervious protective clothing

(See under section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION)

Environmental measures

Prevent from entering drains, sewers or water courses.

Method of cleaning

Recover bulk spillage, without delay and while material is still in non-hardened (plastic) state, using suction system or mechanical shovel.

Precautions

7. HANDLING & STORAGE

Wet concrete

Avoid direct skin and eye contact with wet concrete

Do not kneel or sit on wet concrete

Exercise care adjacent to deep sections of newly-placed concrete which is still fluid/plastic.

For personal protection, also see section 8

Dry concrete dust

Minimise dust creation wherever possible

For personal protection, also see section 8

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wet concrete

Hand protection: impervious gloves

Eye protection: suitable protection is advisable where there is risk of accidental exposure/splashing.

Skin protection: long sleeved clothing, full-length trousers, and impervious boots. Also kneepads, if kneeling down to provide a surface finish.

Dry concrete dust

NOTE: Occupational Exposure Standards (OES) or Maximum Exposure Limits (MEL) for inhalable and respirable dusts are set by the Health & Safety Commission.

These are published annually in HSE Guidance Note EH40.

The following limits (8 hour time-weighted averages) are given in EH40/99:

	8 Hour TWA
Total inhalable dust	6mg/m ³ OES
Respirable dust	2.4mg/m ³ OES
Respirable crystalline silica	0.1mg/m ³ MEL

5. FIRE FIGHTING MEASURES

None needed: Materials do not support combustion

Engineering control measures: containment and local exhaust ventilation where airborne dust exposure is likely to reach exposure limits.

Respiratory protection: suitable respiratory protective equipment to HSE approved standard if engineering control measures are insufficient

Hand protection: abrasive-resistant gloves

Eye protection: anti-dust goggles to approved HSE standard.

Product Information

9. PHYSICAL & CHEMICAL PROPERTIES

Detailed properties vary according to:

- i) the specific mix, and
- ii) the ingredients added to affect the working characteristics of the material

All mixes are:

- Abrasive
- Alkaline (typically pH10-14)

9. STABILITY & REACTIVITY

Not applicable

10. TOXICOLOGICAL INFORMATION

Wet concrete

Eye contact: may cause irritation or, in severe cases, alkali burns

Skin contact: (short-term exposure) may cause alkali burns; may cause acute allergic dermatitis in people sensitised to chromium compounds.

(Chronic long-term exposure) may cause irritant contact dermatitis; may lead to sensitisation of the skin to chromium compounds.

Dry concrete dust

Eye contact: may cause transient irritation

Skin contact: (brief/occasional) no harm likely

Inhalation: inhalation of large quantities of dust or dust containing respirable silica (generated by cutting, drilling etc.) may cause progressive lung damage, leading to permanent disability and, in extreme cases, to premature death.

Ingestion: no harm likely

11. ECOLOGICAL INFORMATION

No data is available on the preparations themselves. When used as intended, no environmental impact is anticipated.

If spillage occurs, do not allow material to enter drains, sewers or water courses.

Waste Disposal

12. DISPOSAL CONSIDERATIONS

Not hazardous. However, disposal subject to local authority current requirements/regulations.

Additional Information

13. TRANSPORT INFORMATION

Not hazardous: no vehicle labelling required.

14. REGULATORY INFORMATION

Chemicals (Hazard Information and Packaging for Supply) Regulations 2009

Danger Classification:	IRRITANT (+ hazard symbol)
R38	Irritating to the skin
R41	Risk of serious damage to the eyes
R43	May cause sensitisation by skin contact
S24	Avoid contact with skin
S25	Avoid contact with eyes
S26	In case of contact with eyes, rise immediately with plenty of water and seek medical advice.

Other statutory provisions

- Health & Safety at Work etc. Act 1974
- Consumer Protection Act 1987
- Control of Substances Hazardous to Health Regulations (COSHH) 2002
- Construction (Design & Management) Regulations 2015
- Environmental Protection Act 1990

IMPORTANT NOTES:

The information contained in this Safety Data Sheet does NOT constitute the user's own assessment of workplace risk as required by other safety legislation. If purchasing on behalf of a third party who will work with the material, it is your statutory duty to pass on this information to them BEFORE such work begins

9. OTHER INFORMATION

Data and advice in this Safety Data Sheet is provided to alert all purchasers and users to the possible hazards of use when the material is used as intended. This information should enable them to take necessary precautions to protect the health and safety of all personnel.

Guidance references

Available from HMSO, HSE area offices, or local authority Environmental Health Departments:

EH40: Occupational Exposure Limits

A Step by Step Guide to COSHH (HS(G)97)

Further copies of Safety Data Sheet available from;

Tudor Griffiths Limited & Powys Ready Mixed Concrete Co Limited

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