# 1 Identification Of The Substance/Preparation and Company/Undertaking

Name of preparation:	Ultracrete QC10 – Rapid Set Cement
Company name:	Instarmac Group plc
Address:	Kingsbury Link, Trinity Road, Tamworth, B78 2EX
Tel. No.:	01827 872244

Emergency Tel. No: 07971 217 347

# 2 Composition/Information on Ingredients Chemical Description:

Consists of a mixture of cement powder, with small quantities (less than 1%) of organic individual additives present in less than 0.1% w/w.

Ingredient	EINECS	ELINC	CAS	Classific ation	Content	Risks
High Alumina Cement	N/D	N/D	65997-15-1	Irritant (Xi)	20-24%	R36/37/38, R41, R43
Other Inorganic Fillers (including Silica Sand)	238-878-4	-	14808-60-7	None	>76%	R37

# 3 Hazards Identification

#### Irritant

When cement based powders are mixed with water or when they become damp a strong alkaline solution is produced, which can cause serious burns or ulcerations to the eyes or skin. Strong alkaline solutions tend to damage nerve endings in the skin so chemical burns can develop without pain being felt at the time. In addition, cement mortars can cause irritant and allergic dermatitis.

#### 4 First-Aid Measures

If contact with eyes seek medical attention immediately.

- **Inhalation:** If irritation occurs remove to fresh air, if nose/airways become inflamed, seek medical advice.
- **Skin:** Wash thoroughly with soap and water, remove contaminated clothing and launder before re-use. If irritation pain or other skin trouble occurs, seek medical advice.
- Eye Contact: Irrigate eyes with clean water for at lease 15 minutes, obtain medical attention immediately.

**Ingestion:** Do not induce vomiting, wash out mouth with water and give plenty of water to drink.

# 5 Fire-Fighting Measures

 Extinguishing media:

 Suitable extinguishing

 media:
 Water or Foam extinguishers are suitable

 Unsuitable extinguishing

 media:
 None Specified

 Special exposure hazards arising

 from combustion including gaseous

 by-products:
 Product is not flammable and will not facilitate combustion with other materials.

Special protective equipment for fire fighters: N/A

# 6 Accidental Release Measures

0	Personal Precautions: Environmental precautions:	Wearing suitable personal protection (dust masks, gloves and goggles) as in section 8, recover spillage in dry state, if possible avoiding dust formation. In accordance with local authority, regulations do not allow material into watercourses and drains.
	Methods for cleaning up:	Try to avoid build up of dust were possible. Vacuum removal if available is the most most suitable. If product is hydrated, mechanical aids may be required to reduce manual handling risks.
	•	sonal protection Refer to section 8
	Disposal Considerations:	Should be disposed at a suitable landfill site in accordance with control of Pollution act 1974, Environmental Protection Act 1990 and local authority regulations. Addition of this product to water will give an alkaline solution, which may be toxic to aquatic life.
7	Handling and Storage	
	Handling:	Should use in a well-ventilated area, appropriate personal protection should be used (as per section 8) wash hands after use.
	Storage: Specific use(s):	Store in a dry place in temperature between 5°C – 25°C. Protect from frost. Standard cementitious product should be in conjunction working practices.
8	Exposure controls/pers	onal protection
	Exposure limit values:	
	Portland Cement	OES 8Hr Time Weighted Average (TWA) 10 mg/m³ total inhalable dust 4mg/m³ respirable dust
	Exposure controls:	Suitable gloves should be worn to prevent skin contact; if dust formation is likely, a suitable dust mask should be worn. If splashing is possible, goggles should be worn.
	Occupational exposure	
	Respiratory protection:	exposure limits in well-ventilated area. (Always follow dust mask manufacturers instructions and ensure exposure limit is not beyond the tolerance of the mask). If using in low atmosphere or poorly ventilated area consider use of respirator.
	Hand protection:	Impermeable or rubber based gloves capable of prevention of contact with skin should be worn. Glove must possess enough durability to prevent dermal exposure during the specific application (a risk assessment may be required.)If contact with skin occurs wash immediately with water. See Section 4
	Eye protection:	Dust proof goggles should be worn whenever there is risk of powder or water/powder mixture entering the eye.
	Skin protection:	Avoid all skin contact. Wear full length overalls to protect skin from splashes, remove all contaminated clothing and launder before re- use if contact with skin occurs consult section 4. During light applications, face protection is not normally required however; the possibility of splashing does exist during mixing (a risk assessment may be
		required). Wash skin with water immediately after any contact with this product as per section 4.
	Environmental exposure controls:	Do not allow product to enter water courses or drains, dispose of surplus materials and packaging in accordance with local authority regulations.

## 9 Physical and chemical properties

General Information:	Appearance:	Grey Powder		
	Odour:	Not Applicable		
	Important health, safety and environmental information			
	pH;	Approximately 12-14 when mixed with water		
	Boiling point/boiling range;	N/A		
	Flash point;	N/A		
	Flammability (solid/gas);	N/A		
	Explosive properties;	N/A		
	Oxidising properties;	N/A		
	Vapour pressure;	N/A		
	Relative density;	1.6-2.0g/cm <sup>3</sup> approximately		
	Solubility:	N/A		
	Partition coefficient: n-octanol/water; N/A			
	Viscosity;	N/A		
	Vapour density;	N/A		
	Evaporation rate;	N/A		

10 Stability and reactivity

**Conditions to avoid:** Storage in wet conditions my lead to premature hydration of the product. Exposed skin when wet.

Materials to avoid: Avoid strong acids and alkalies

Hazardous decomposition products: N/A

Need for and the presence of stabilisers: N/A

Possibility of hazardous exothermic reaction: N/A

#### Safety significance, if any, of change in physical appearance of the material:

Potency of irritation increases during mixing with water and before curing.

Possibility of degradation to unstable products: None

11 Toxicological information

Acute toxicity (oral, inhalation or dermal): N/A

Corrosivity/irritation (eye, skin, respiratory tract):

Eye:Severe eye irritant mild exposure can cause soreness; gross exposures or<br/>untreated mild exposure can lead to chemical burning and ulceration of the eye.Respiratory Tract:Inhalation may cause inflammation of mucus membranes. Harmful by inhalation

Sensitisation (skin, respiratory):

Skin: Powder may cause irritant contact dermatitis, allergic (chromium) dermatitis and/or burns.

**Repeated-dose toxicity:** Repeated exposure in excess of the OES has been linked with Rhinitis and coughing. Skin exposure has been linked to allergic (chromium) dermatitis and/or burns. Allergic dermitis more commonly arises from contact with cement/water mixture than dry cement.

Mutagenicity:	N/A
Carcinogenicity:	N/A
Reproductive toxicity (fertility, developmental).	N/A

12 Ecological information	
Ecotoxicity:	LC50 Aquatic Toxicity Rating not determined
Mobility:	N/A
Persistence & degradability:	N/A
Bio-accumalative potential:	N/A
Other adverse affects:	The addition of cements to water will, however, cause the pH to rise and may therefore be toxic to aquatic life in some circumstances.

- 13 Disposal<br/>Considerations:Dispose of empty containers or surplus product in accordance with local/state<br/>/federal regulations. Keep out of reach of children.
- **14 Transport information:** Classification for conveyance not required.

15 Regulatory information:	Classification:	Xi Irritant
	R36/37/38	Irritating to Eyes, respiratory system and skin.
	R41	Risk of Serious Damage to Eyes.
	R43	May cause sensitisation by skin contact.
	S22	Do not breathe dust
	S24/25	Avoid contact with skin and eyes
	S26	In case of contact with eyes, rinse immediately with
		plenty of water and seek medical advice.
	S29	Do not empty into drains
	S36/37/39	Wear suitable protective clothing/suitable gloves and eye/face protection

16 Other Information Training advise: Recommended	If any further information is required contact Instarmac Group plc
restrictions on use:	Should always be used in accordance with material data sheet.
Further information:	(written references and/or technical contact point); Contact Instarmac Group for further information.
Sources of key data used to compile the data sheet:	Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 The Compilation of Safety Data Sheets (Third Edition) Control of Substances Hazardous to Health (Regulations) 1998 Manual Handling Operation Regulations 1992 Information collated from raw materials suppliers. EH40/2002

Users of products supplied by Instarmac Group plc should take appropriate measures to ensure working practices are in accordance with the Control of Substances Hazardous to Health Regulations (COSHH).

All information is based on results gained from experience and tests and is believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon as conditions of use lie outside our control. Users should always carry out sufficient tests to establish the suitability of any products for their intended applications. No statements shall be incorporated in any contract unless expressly agreed in writing nor construed as recommending the use of any product in conflict of any patent. All goods are supplied to Instarmac Group plc's general conditions of sale.