

SAFETY DATASHEET CAULDON CEMENT



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1 Product identifier

Product name: Cauldon Cement

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

Identified uses: Common cements are used in industrial installations to manufacture/ formulate hydraulic binders for building and construction work, such as ready-mixed concrete, mortars, renders and grouts, as well as precast concrete.

1.3 Details of the supplier of the safety data sheet

Supplier/distributor:

Holcim UK
Bardon Hall
Copt Oak Road
Markfield
Leicestershire
LE67 9PJ
United Kingdom

Telephone: 01530 510006 (General Technical Enquiries)

1.4 Emergency telephone number

UK National Poisons Information Service **0344 892 0111**
(Health professionals only)

Ireland National Poisons Information Centre **(01) 809 2566**

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to Regulation (EC) No.1272/2008

Skin irritation (Category 2)	H315
Skin sensitisation (Category 1)	H317
Eye damage (Category 1)	H318
Specific target organ toxicity - Single exposure (Category 3), Respiratory system	H335

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Signal word DANGER

Hazard statement(s)

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H335 May cause respiratory irritation.

Precautionary statement(s)

P260 Do not breathe dust.

P280 Wear protective gloves.



P284 Wear respiratory protection.

P305 + P351 + P338 IF IN EYES:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

Contains Chromium (VI). May produce an allergic reaction.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Component	Classification	Concentration
Portland Cement		
CAS-No. 65997-15-1	Skin Irrit., H315; Eye Irrit.1, H318, STOT SE 3, H335;	Variable
EC-No. 266-043-4	Skin Sens. 1, H317 Variable	
Registration No. [-]		

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled: Remove to fresh air and rest. If not breathing, give artificial respiration. If recovery is not rapid call for prompt medical attention. Show this safety data sheet to medical personnel.

In case of skin contact: Remove contaminated clothing. Wash with soap/cleanser and rinse with plenty of water. If irritation persists or there are signs of skin damage obtain medical attention.

In case of eye contact: Irrigate with water for at least 15 minutes. Take care not to wash chemical from one eye to another. Obtain immediate medical attention.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek further medical attention.

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4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Non-combustible. Use media such as alcohol/aqueous foam, dry chemical, or carbon dioxide or water spray/fog which is suitable and appropriate for any surrounding fire.

5.2 Special hazards arising from the substance or mixture

No significant toxic fumes or combustion products are likely to be produced in a fire. Firefighting runoff from large quantities of material may be strongly alkaline and could cause irritation to eyes and skin.

5.3 Advice for fire-fighters

Do not breathe fumes. Use approved self-contained breathing apparatus. Wear fire retardant clothing. Use water spray to cool containers. Prevent runoff from fire control from entering waterways. Large fires should only be dealt with by trained personnel.

5.4 Further information

No data available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use suitable personal protective equipment (refer to Section 8 for details). Avoid breathing dust. Ensure adequate ventilation.

6.2 Environmental precautions

Prevent further spillage if safe to do so. Do not let product enter drains or watercourses.

6.3 Methods and material for containment and cleaning up

Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid formation of dusts. Provide appropriate exhaust ventilation at places where dust is formed. Do not allow product to be contaminated with water.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with occupational exposure limits

Not assigned to wet ready mixed concrete. The following exposure limits apply to dry residues or process dusts:

Component	Portland Cement
CAS No.	65997-15-1
Reference period	8hr TWA
Exposure Limit	10mg/m ³ 4mg/m ³
Basis	UK. EH40 OEL

8.2 Exposure controls

Appropriate engineering controls

Use in well ventilated areas. Use mechanical ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Eye/face Protection: Use equipment for eye protection tested and approved under appropriate standards such as EN 166.

Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with good practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Recommended glove types include Nitrile, PVC, PVA and Polythene gloves

Body Protection: Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

Respiratory Protection: Use in well ventilated areas. Use mechanical ventilation if possible. If significant dust generated and mechanical ventilation is not available or not possible then use a respirator with filter type P3 to Standard EN14387, EN149 or equivalent.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Form: White to fine grey/tan particulate
Odour	None
Odour Threshold	Not applicable
pH	pH of solutions pH 10-13
Melting point/freezing point	No data available
Initial boiling point and boiling range	>1000°C
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Non flammable
Upper/lower flammability or explosive limits	Non flammable
Vapour pressure	Negligible
Vapour density	Not applicable
Relative density	2.6-2.8 at 20°C
Water solubility	2-20% soluble in water, will form a highly alkaline leachate
Partition coefficient: (n-octanol/water)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Not applicable
Explosive properties	None
Oxidizing properties	None

9.2 Other information

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Undergoes an exothermic reaction with water

10.2 Chemical stability

Expected to be stable at normal temperatures and under recommended storage conditions

10.3 Possibility of hazardous reactions

Uncontrolled reaction with water can produce damaging levels of heat

10.4 Conditions to avoid

Moisture

10.5 Incompatible materials

Acids, strong oxidising agents, ammonium salts and aluminium metal

10.6 Hazardous decomposition products

No hazardous decomposition products when stored and handled correctly

SECTION 11: STABILITY AND REACTIVITY

11.1 Information on toxicological effects

Acute toxicity

LD 50 (oral)/LD50 (dermal)/LC50 (inhalation): No acute lethal effects.

Skin corrosion/irritation and serious eye damage/eye irritation

Exposure to wet Raw Meal dust or to dry dust on moist areas of the body can cause serious, potentially irreversible caustic burns to the skin. Primary eye irritant – contact may cause severe eye irritation, ocular burns and permanent blindness if not treated immediately.

Respiratory or skin sensitisation

May cause sensitisation by skin contact

Germ cell mutagenicity

No known mutagenic potential.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No known toxic to reproduction potential.

Specific target organ toxicity - single exposure

Inhalation may cause respiratory irritation, severe exposure may cause chemical burns to the nose, throat and lungs.

Specific target organ toxicity - repeated exposure

The product gives potential for generation of respirable crystalline silica dust during handling and use. Prolonged inhalation of respirable dust may cause lung fibrosis. Principal symptoms of lung fibrosis are cough and breathlessness. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. Repeated inhalation of excessive amounts of respirable silica may cause silicosis.

Aspiration hazard

No data available on mixture. Not expected to pose an aspiration hazard.

Potential health effects

Inhalation

Inhalation of dust may cause severe respiratory tract irritation/damage.

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Ingestion

May be harmful if ingested in quantity with possible chemical burns to the throat and digestive tract.

Skin

May cause skin irritation, caustic burns, skin sensitisation and allergic contact dermatitis.

Eyes

Causes severe eye irritation and possible permanent damage.

Signs and Symptoms of Exposure

Exposure may cause the effects as described above.

Additional Information

Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No data available. Alkaline solutions formed during contact with water will be dangerous to aquatic life in high concentrations.

12.2 Persistence and degradability

Will not biodegrade in the environment.

12.3 Bioaccumulative potential

No data available. Not expected to bioaccumulate.

12.4 Mobility in soil

Alkaline solutions formed during contact with water may penetrate soil causing groundwater contamination. Remaining insoluble components will be immobile.

12.5 Results of PBT and vPvB assessment

No data available. Will not meet PBT or vPvB criteria.

12.6 Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Can be landfilled in compliance with local requirements and the Hazardous Waste Regulations 2005. The material should be buried to prevent possible generation of airborne respirable dust.

Contaminated packaging

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

Cement is not covered by the international regulation on the transport of dangerous goods (IMDG, IATA,ADR/RID), therefore no classification is required.

No special precautions are needed apart from those mentioned under Section 8.

UN number

Not relevant

UN proper shipping name

Not relevant

Transport hazard class(es)

Not relevant

Packing group

Not relevant

Environmental hazards

Not relevant

Special precautions for user

Not relevant

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant

SECTION 15: REGULATORY INFORMATION

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 (as amended) and SI 2019:758 (UK REACH)

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

Health & Safety at Work etc. Act 1974

Control of Substances Hazardous to Health Regulations 2002 (as amended)

Chemicals (Hazard Information and Packaging for Supply) Regulations 2009

Classification, Labelling and Packaging of Substances and Mixtures Regulations 2008 (as amended)

EH40/2005 Workplace Exposure Limits (as amended)

Environmental Protection Act 1990

Hazardous Waste Regulations 2005 (as amended)

15.2 Chemical Safety Assessment

No data available.

SECTION 16: DISPOSAL CONSIDERATIONS

Further information

Full text of H-Statements referred to under sections 2 and 3.

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H335 May cause respiratory irritation

Recommended restrictions on use

Use in accordance with manufacturer's technical instructions. The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and for people working with or handling these products. This information is believed to be reliable and updated at Revision Date and represents the best information currently available and known by Holcim UK. However, Holcim makes no guarantee or warranty, express or implied, with respect to such information and we assume no liability resulting from its use. The information related herein is based on proper handling and anticipated uses and is for the material without chemical additions or alterations. Users should make their own investigations to determine the suitability of the information for their particular purposes. It is the responsibility of the user to undertake a suitable risk assessment/ COSHH assessment prior to using this material.

Revision History

Revision to version 4 of June 2025 in line with legislative updates and changes.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II and SI 2019:758 (UK REACH)

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