



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

1.1 Product identifier	Product name	Portland Cement CEM II / A-LL 42.5 N to EN 197-1	
	Product code	853580	
	Unique Formula Identifier (UFI)	33F0-600Q-7003-A3FD	
1.2 Relevant identified uses of the substance or mixture and uses advised against	Identified Use(s)	Common cement is used as a hydraulic binder for the production of concrete, mortars and grouts. Cement and hydraulic binders are used for the production of building materials and in construction (including soil treatment in road engineering), by professionals or consumers.	
	Uses advised against	Anything other than above.	
1.3 Details of the supplier of the safety data sheet	Company Identification	Travis Perkins, Ryehill House, Ryehill House, Lodge Farm Industrial Estate, Northampton, NN5 7UA United Kingdom	
	Telephone	01604 752424	
	E-mail (competent person)	customerservice@travisperkins.co.uk	
1.4 Emergency telephone number	Emergency Phone No.	01604 752424	Only available during office hours.
	Languages spoken	English	
	UK National Poisons Information Service (NPIS)	0344 892 0111	Healthcare professionals only

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture		
2.1.1 Regulation (EC) No. 1272/2008 (CLP)		Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1B; H317 STOT SE 3; H335
2.2 Label elements		According to Regulation (EC) No. 1272/2008 (CLP)
	Product name	Portland CEM II / A-LL 42.5N to EN 197-1
	Contains:	Cement, portland, chemicals
	Hazard Pictogram(s)	 
	Signal Word(s)	DANGER

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

Hazard Statement(s)	H315: Causes skin irritation. H318: Causes serious eye damage. H317: May cause an allergic skin reaction. H335: May cause respiratory irritation.
Precautionary Statement(s)	P103: Read label before use. P102: Keep out of reach of children. P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing 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. P310: Immediately call a POISON CENTER/doctor.
Supplemental information	Not applicable
2.3 Other hazards	None Known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances**
Not applicable
- 3.2 Mixtures** Substances in preparations / mixtures.

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard classification
Cement, portland, chemicals	50 - 100	65997-15-1	266-043-4	Not yet assigned in the supply chain	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1B; H317 STOT SE 3; H335

For full text of H phrases see section 16.

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures
Self-protection of the first aider

Inhalation	No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing dust. Avoid contact with skin, eyes and clothes. Ensure adequate ventilation. If unconscious, place in recovery position and get medical attention immediately. Apply artificial respiration if necessary. Do not employ mouth-to-mouth method. Wash contaminated clothing before reuse. IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If unconscious, place in recovery position and get medical attention immediately. Apply artificial respiration if necessary. Do not employ mouth-to-mouth method. Immediately call a POISON CENTER/doctor.
Skin contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. In case of skin reactions, consult a physician.



SAFETY DATA SHEET

Portland Cement CEM II / A-LL 42.5 N to EN 197-1

Date: 29th September 2021

Version: 1.0

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

Eye contact	IIF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. After rinsing affected eyes must be seen by an ophthalmologist Consult an ophthalmologist.
Ingestion	IF SWALLOWED: Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Immediately call a POISON CENTER/doctor.
4.2 Most important symptoms and effects, both acute and delayed	Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation.
4.3 Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media Suitable extinguishing media	Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions. Water spray, foam, dry powder or CO2.
Unsuitable extinguishing media	Do not use water jet. Direct water jet may spread the fire.
5.2 Special hazards arising from the substance or mixture	May give off noxious and toxic fumes in a fire. Combustion products: Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx), metal oxides
5.3 Advice for firefighters	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Chemical protection suit Keep containers cool by spraying with water if exposed to fire. Evacuate if necessary. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	No action should be taken involving personal risk. Ensure operatives are trained to minimize exposures. Ensure suitable personal protection during removal of spillages. Evacuate area. Remove persons to safety. Ensure adequate ventilation Avoid breathing dust Avoid accumulation of dust. Avoid contact with skin, eyes and clothes. Shut off leaks if without risk.
6.2 Environmental precautions	Avoid release to the environment. Collect spillage. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.
6.3 Methods and material for containment and cleaning up	Take up mechanically, placing in appropriate containers for disposal. A vacuum equipped with HEPA (high efficiency particulate air) filtration is recommended. Treat the recovered material as prescribed in the section on waste disposal.
6.4 Reference to other sections	See Section: 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling	Ensure operatives are trained to minimize exposures. Use personal protective equipment as required. See Section: 8. When using do not eat, drink or smoke. Ensure adequate ventilation. Do not breathe dust. Avoid accumulation of dust. Remove contaminated clothing and wash clothing before reuse. Wash hands and face before breaks and after work and take a shower if necessary. Usual measures for fire prevention. Do not allow dust to accumulate on surfaces and equipment.
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed and in a well-ventilated place. Store in a cool dry place. Keep/Store only in original container. Opened containers should be carefully resealed and stored in an upright position. Protect from direct sunlight.
Storage temperature	Ambient temperatures.
Incompatible materials	None Known
7.3 Specific end use(s)	See Section: 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control parameters	
8.1.1	Occupational exposure limits	The UK HSE (EH40) recommends the following limits for dusts: 10 mg/m ³ (8hr TWA) total inhalable dust; 4 mg/m ³ (8hr TWA) total respirable dust.
8.1.2	Biological limit value	Not established
8.1.3	PNECs and DNELs	Not applicable
8.2	Exposure controls	
8.2.1	Appropriate engineering controls	Ensure adequate ventilation Guarantee that the eye flushing systems and safety showers are located close to the working place. Atmospheric levels should be controlled in compliance with the occupational exposure limit. (To follow: EN689; EN14042, EN482) Where engineering controls are not fitted or inadequate wear suitable respiratory protective equipment.
8.2.2	Individual protection measures, such as personal protective equipment	Use personal protective equipment as required. Take care for general good hygiene and housekeeping. Avoid contact with skin and eyes. Avoid breathing dust Do not eat, drink or smoke when using this product.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/ face protection



Wear eye protection with side protection (EN166). Recommended: Tightly-fitting safety goggles. Eyewash bottles should be available.

Skin protection



Hand protection:

Wear suitable gloves tested to EN374.

Suitable material: NBR (Nitrile rubber), Butyl rubber, FKM (fluoro rubber), CR (polychloroprene, chloroprene rubber)

Breakthrough time (maximum wearing time): > 8 hours

Check the condition of protective gloves before each use. Replace when worn. Gloves should be changed regularly to avoid permeation problems. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Breakthrough times and swelling properties of the material must be taken into consideration.

Body protection:

Wear suitable protective clothing.

Respiratory protection



In case of inadequate ventilation wear respiratory protection. An approved dust mask should be worn if dust is generated during handling. Recommended: EN149

Thermal hazards

Not applicable



SAFETY DATA SHEET

Portland Cement CEM II / A-LL 42.5 N to EN 197-1

Date: 29th September 2021
Version: 1.0

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

8.2.3 Environmental exposure controls Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Solid
Odour	Odourless
Odour threshold	Not applicable
pH	11 – 13.5 (1:2 in aqueous solution @ 20 °C)
Melting point/freezing point	>1250°C
Initial boiling point and boiling range	>1250 °C
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not flammable
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	2.75-3.20
Solubility(ies)	0.1-1.5 g/L (Water solubility)
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Viscosity	Not applicable
Explosive properties	Not explosive
Oxidising properties	Not oxidising.

9.2 Other information

Bulk density	None Known 0.9-1, 5 g / cm ³
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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions
10.2 Chemical stability	Stable under normal conditions
10.3 Possibility of hazardous reactions	Dissolves in hydrofluoric acid to produce corrosive silicon tetrafluoride gas.
10.4 Conditions to avoid	Protect from direct sunlight. Avoid contact with moisture
10.5 Incompatible materials	Acids, ammonium salts, aluminum. Aluminum powder in wet cement gives off hydrogen and should therefore be avoided.
10.6 Hazardous decomposition products	Avoid contact with moisture May give off noxious and toxic fumes in a fire. Combustion products: Carbon monoxide, Carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Oral	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE): LD50 >2000 mg/kg bw/day
Acute toxicity - Dermal	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE): LD50 >2000 mg/kg bw/day
Acute toxicity - Inhalation	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE): LC50 >20 mg/L air
Skin corrosion/irritation	Mixture: Skin Irrit. 2; H315: Causes skin irritation.
Cement, portland, chemicals	Skin Irrit. 2; H315
Serious eye damage/irritation	EU classification and labelling inventory, ≥ 200 Notifiers Mixture: Eye Dam. 1; H318: Causes serious eye damage.
Cement, portland, chemicals	Eye Dam. 1; H318 EU classification and labelling inventory, ≥ 200 Notifiers



SAFETY DATA SHEET

Portland Cement CEM II / A-LL 42.5 N to EN 197-1

Date: 29th September 2021
Version: 1.0

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

<p>Respiratory or skin sensitisation Cement, portland, chemicals</p> <p>Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT - single exposure Cement, portland, chemicals</p> <p>STOT - repeated exposure Aspiration hazard</p> <p>11.2 Other information</p>	<p>Mixture: Skin Sens. 1B; H317: May cause an allergic skin reaction. Skin Sens. 1B; H317 EU classification and labelling inventory, ≥ 200 Notifiers</p> <p>Mixture: Based upon the available data, the classification criteria are not met. Mixture: Based upon the available data, the classification criteria are not met. Mixture: Based upon the available data, the classification criteria are not met. Mixture: STOT SE 3; H335: May cause respiratory irritation. STOT SE 3; H335 EU classification and labelling inventory, ≥ 200 Notifiers</p> <p>Mixture: Based upon the available data, the classification criteria are not met. Mixture: Based upon the available data, the classification criteria are not met.</p> <p>None Known</p>
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SECTION 12: ECOLOGICAL INFORMATION

<p>12.1 Toxicity</p> <p>12.2 Persistence and degradability Cement, portland, chemicals</p> <p>12.3 Bioaccumulative potential Cement, portland, chemicals</p> <p>12.4 Mobility in soil Cement, portland, chemicals</p> <p>12.5 Results of PBT and vPvB assessment</p> <p>12.6 Other adverse effects</p>	<p>Mixture: Based upon the available data, the classification criteria are not met.</p> <p>No data for the mixture as a whole. The methods for determining the biological degradability are not applicable to inorganic substances.</p> <p>No data for the mixture as a whole. No data available</p> <p>No data for the mixture as a whole. No data available</p> <p>Not classified as PBT or vPvB. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.</p> <p>None Known</p>
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SECTION 13: DISPOSAL CONSIDERATIONS

<p>13.1 Waste treatment methods</p> <p>Waste classification according to Directive 2008/98/EC (Waste Framework Directive)</p>	<p>Hazardous waste according to Directive 2008/98/EC (waste framework directive). Dispose of wastes in an approved waste disposal facility. Disposal should be in accordance with local, state or national legislation. Handle contaminated packages in the same way as the substance itself. Do not dispose of with household waste. Do not allow to enter drains.</p> <p>HP 4; Irritant — skin irritation and eye damage HP 5; Specific Target Organ Toxicity (STOT)/Aspiration Toxicity HP 13; Sensitising.</p>
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SECTION 14: TRANSPORT INFORMATION

	ADR/RID	ADN	IMDG	ICAO/IATA
14.1 UN number	Not classified	Not classified	Not classified	Not classified
14.2 UN proper shipping name	Not classified			
14.3 Transport hazard class(es)	Not classified	Not classified	Not classified	Not classified
14.4 Packing group	Not classified	Not classified	Not classified	Not classified
14.5 Environmental hazards	Not classified	Not classified	Not classified	Not classified
14.6 Special precautions for user	See Section: 2			
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable			
14.8 Additional information	None			



SAFETY DATA SHEET

Portland Cement CEM II / A-LL 42.5 N to EN 197-1

Date: 29th September 2021
Version: 1.0

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 15: REGULATORY INFORMATION

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

15.1. EU regulations

1	Annex XVII (Restrictions) Restrictions of occupation: To follow:	Not restricted According to directive 94/33/EC, juveniles are only allowed to handle this product as long as all effects of dangerous substances are prevented. Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work
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15.1. National regulations

2	UK; GB BPR – List of Active Substances Wassergefährdungsklasse (Germany) (Germany)	Cement, portland, chemicals: Not listed Calcium dihydroxide: Listed Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, chlorides: Listed obviously hazardous to water (WGK2) Self-classification (mixture; calculation rule).
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15.2 Chemical Safety Assessment

A chemical safety assessment is not required under REACH.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Not applicable – V1.0

References:

Existing Safety Data Sheet (SDS).

EU classification and labelling inventory: Cement, portland, chemicals (CAS No.: 65997-15-1; ≥ 200 Notifiers)

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification procedure
Skin Irrit. 2; H315	Threshold Calculation
Eye Dam. 1; H318	Threshold Calculation
STOT SE 3; H335	Threshold Calculation

Legend

ADR/RID	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road/ RID: Regulations concerning the international railway transport of dangerous goods
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
BPR	Biocidal Products Regulation
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
EC	European Commission
EN	European Standard
EU	European Union
GB	Great Britain
HSE	Health and Safety Executive
HEPA	High Efficiency-Particulate Airfilter
IBC	Intermediate Bulk Container
ICAO/IATA	ICAO: International Civil Aviation Organization / IATA: International Air Transport Association
A	
IMDG	IMDG: International Maritime Dangerous Goods



SAFETY DATA SHEET

Portland Cement CEM II / A-LL 42.5 N to EN 197-1

Date: 29th September 2021
Version: 1.0

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

LTEL	Long-term Exposure Limit
LC50	Lethal concentration at which 50% of the population is killed
LD50	Lethal dose at which 50% of the population is killed
MARPOL No.	International Convention for the Prevention of Marine Pollution from Ships Number
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
STEL	Short-term Exposure Limit
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
TWA	Time Weighted Average
UK	United Kingdom
vPvB	very Persistent and very Bioaccumulative

Hazard classification / Classification code:

Skin Irrit. 2; Skin irritation, Category 2
Eye Dam. 1; Eye damage, category 1
Skin Sens. 1B; Skin sensitizer, Sub-category 1B
STOT SE 3; Specific target organ toxicity — single exposure, Category 3

Hazard Statement(s)

H315: Causes skin irritation.
H318: Causes serious eye damage.
H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required. Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations.

Disclaimers

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