

SAFETY DATA SHEET

according to EEC Directives 91/155/EEC and 93/112/EC

Product name: Portland cements and Portland limestone cement: Page: 1/4
Last revised date: 2001-23-08 Print date: 01-23-08
SDS-ID: GB/IRL/1.9

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product name: CEM I 42.5 N
CEM I 52.5 N
CEM I 52.5 R
CEM II / A-LL 52.5 N
CEM II / A-LL 52.5 R

Application: Binder for natural and artificially processed aggregates, such as sand and gravel, for production of mortar, plaster and concrete. Container size: 25 and 50 kg sack
Bulk

Supplier: Aalborg Portland
Rørdalsvej 44
DK-9100 Aalborg
Phone: +45 98 16 77 77

2. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains: cement.

The following substances shall be indicated according to legislation:

<u>Chemical name:</u>	<u>CAS-No.:</u>	<u>%:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
Portland cement clinker	65997-15-1	75-100	Xi;R37/38-41	-

3. HAZARDS IDENTIFICATION

Man: Dust may irritate throat and respiratory system and cause coughing. Dust or splashes from the mixture may cause permanent eye damage. Dust has an irritating effect on moist skin. Prolonged contact with wet cement/mixture may cause burns. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

Environment: The product is not expected to be hazardous to the environment. In the presence of water the product hardens to a solid mass which is not biodegradable.

4. FIRST-AID MEASURES

Inhalation: Move injured person into fresh air and keep person calm under observation. If necessary, seek hospital and bring along these instructions.

Skin contact: Remove contaminated clothes and rinse skin thoroughly with water.

Eye contact: Do not rub eye. Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring along these instructions.

Ingestion: Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Immediate transport to hospital. Bring along these instructions.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Specific hazards: Water used for fire extinguishing, which has been in contact with the product, may be corrosive.

Customer No: 20238
Filing No: -4926

SAFETY DATA SHEET

according to EEC Directives 91/155/EEC and 93/112/EC

Product name: Portland cements and Portland limestone cement: Page: 2/ 4
Last revised date: 2001-23-08 Print date: 01-23-08
SDS-ID: GB/IRL/1.9

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid inhalation of dust. Avoid contact with eyes and prolonged skin contact. Use work methods which minimise dust production. For personal protection, see point 8.

Environmental precautions: The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

Methods for cleaning up: Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. For waste disposal see point 13.

7. HANDLING AND STORAGE

Safe handling advice: Observe good industrial hygiene practices. Avoid inhalation of dust. Avoid contact with eyes and prolonged skin contact. Change contaminated clothing. Avoid spread of dust.

Technical measures: Use work methods which minimise dust production.

Technical precautions: Mechanical ventilation may be required. Provide easy access to water supply and eye wash facilities.

Technical measures for safe storage: No special precautions.

Storage conditions: Store in closed original container in a dry place. Seal opened containers and use up as soon as possible. When stored under humid conditions, the chromate neutralization will

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust.

<u>Chemical name:</u>	<u>Exposure limits:</u>	<u>Type:</u>	<u>Notes:</u>	<u>References:</u>
Portland cement:				
Total inhalable dust	10 mg/m ³			EH 40/99
Respirable dust	4mg/m ³			

Respiratory equipment: During dust-raising work: Use respiratory equipment with particle filter, type P2.

Hand protection: Wear protective gloves. Suitable gloves can be recommended by the glove supplier.

Eye protection: Risk of splashes: Wear goggles/face shield.

Skin protection: Wear special protective clothing. Hood or helmet shall be used in connection with splashing work.

Hygiene measures: Remove contaminated clothing and wash the skin thoroughly with soap and water after

SAFETY DATA SHEET

according to EEC Directives 91/155/EEC and 93/112/EC

Product name: Portland cements and Portland limestone cement: Page: 3/ 4
Last revised date: 2001-23-08 Print date: 01-23-08
SDS-ID: GB/IRL/1.9

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: grey and white powder
Odour: odourless
pH: Approx. 13 (mixed with water)
Boiling point: not relevant
Flash point: not relevant
Explosive properties: not relevant
Relative density: not available
Solubility: Miscible with water.

10. STABILITY AND REACTIVITY

Stability: Stable. The content of chromate reducing agent is gradually diminished.
Conditions/
materials to avoid: The product will harden into a hard mass in contact with water and moisture.
Hazardous
decomposition products: None in particular.

11. TOXICOLOGICAL INFORMATION

Inhalation: Dust may irritate throat and respiratory system and cause coughing.
Skin contact: Dust has an irritating effect on moist skin. Prolonged contact with the mixture may cause corrosion.
Eye contact: Dust or splashes from the mixture may cause permanent eye damage. Immediate first aid is necessary.
Ingestion: Not likely, due to the form of the product. Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.
Specific effects: Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

12. ECOLOGICAL INFORMATION

Mobility: The product is not volatile but may be spread by dust-raising handling.
Degradability: The product is not biodegradable.
Ecotoxicity: The product is not expected to be hazardous to the environment.

SAFETY DATA SHEET

according to EEC Directives 91/155/EEC and 93/112/EC

Product name: Portland cements and Portland limestone cement: Page: 4/ 4
Last revised date: 2001-23-08 Print date: 01-08-23
SDS-ID: GB/IRL/1.9

13. DISPOSAL CONSIDERATIONS

Dispose of waste and residues according to agreement with local authorities. Waste is classified as special waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Note that fully cured material is not considered as hazardous waste.

Waste from residues: EWC-code: 10 13 06

Contaminated packaging: EWC-code: 15 01 01 (paper and cardboard)

14. TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

15. REGULATORY INFORMATION

Labelling:



R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
S2	Keep out of reach of children.
S22	Do not breathe dust.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39	Wear eye/face protection.

Calcium oxide. When mixed with water it will form calcium hydroxide which has a corrosive effect on skin and eyes.

National regulation: CHIP- The Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 (SI 1994/3247), with Amendment Regulations 1996 (SI 1996/1092), 1997 (SI 1997/1460), 1998 (SI 1998/3106), 1999 (SI 1999/197), 1999 (SI 1999/3165), 2000 (SI 2000/2381) and 2000 (SI 2000/2897).
Occupational Exposure Limits EH 40/2000 from the Health and Safety Executive.
The Special Waste Regulations 1996 (SI 1996/972) with Amendment Regulations 1996 (SI 1996/2019) and 1997 (SI 1997/251).

16. OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Made by DANISH TOXICOLOGY CENTRE, Kogle Allé 2, DK-2970 Hørsholm, Denmark. Telephone +45 45 76 20 55 Telefax +45 45 76 24 55

Customer No: 20238
Filing No: -4926