



Material Safety Data Sheet B 31

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

PRODUCT NAME B 31

SUPPLIER **ARDEX ENDURA (INDIA) PRIVATE LIMITED**
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PRODUCT USE Cementitious Grout.

2. HAZARDS IDENTIFICATION

Irritating to eyes, respiratory system and skin

3. COMPOSITION / INFORMATION ON INGREDIENTS

All constituents of this product are listed in EINECS (European Inventory of Existing Commercial Chemical Substances) or ELINCS (European List of New Chemical Substances) or are exempt.

Names	Symbol	Risk Phrases	Other Information	Content
Cement (OPC)	Xi	R36/37/38	Cas No: 65997-15-1	>50 %

Refer to Section 8 for Occupational Exposure Limits.

4. FIRST-AID MEASURES

INHALATION

Remove from exposure. If feeling unwell obtain medical attention.

INGESTION

Wash out mouth with water. Do NOT induce vomiting. Obtain medical attention.

EYE CONTACT

Irrigate immediately with copious quantities of water for several minutes. Obtain medical attention urgently.

SKIN CONTACT

Wash immediately with copious quantities of water. Remove contaminated clothing immediately.
Obtain medical advice if skin disorders develop.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA

None, not flammable.

SPECIAL EXPOSURE HAZARDS

None.

SPECIAL PROTECTIVE EQUIPMENT

None.

6. ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS**

Wear rubber boots in addition to the recommended protective clothing.

ENVIRONMENTAL PRECAUTIONS

Prevent entry into drains, sewers and water courses.

DECONTAMINATION PROCEDURES

Avoid the creation of dust in atmosphere. Gather into containers. Residues may be flushed to drain with large volumes of water. Prior consent must be obtained from the local Water Company if discharged to sewer.

7. HANDLING AND STORAGE**USAGE PRECAUTION**

Avoid creating dust. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid skin and eye contact.

STORAGE PRECAUTION

Store in cool, dry area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**OCCUPATIONAL EXPOSURE LIMITS**

Substance	8 Hour TWA	STEL	Source/Other Information
silica, amorphous: total inhalable dust respirable dust	6 mgm ⁻³ 2.4 mgm ⁻³	----	EH 40
portland cement: total inhalable dust respirable dust	10 mgm ⁻³ 4 mgm ⁻³	-----	EH 40

ENGINEERING CONTROL MEASURES

Atmospheric levels of dust must be maintained within the Occupational Exposure Limit. Where mechanical methods are inadequate or impractical, appropriate personal protective equipment must be used.

PERSONAL PROTECTIVE EQUIPMENT

Impervious gloves (eg PVC). Goggles / Safety glasses. Approved dust mask. Change contaminated clothing and clean before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Granulated powder.
Colour	Grey.
Odour	Odourless.
pH(working dilution)	>12
Boiling Point/Range (°C)	Not applicable.
Flash Point (closed,°C)	None.
Autoflammability (°C)	Not applicable
Oxidising Properties	Not determined
Relative Density (at 20°C)	1.3 (bulk)
Water Solubility	Partially soluble.

10. CHEMICAL STABILITY AND REACTIVITY INFORMATION**STABILITY**

Stable.

CONDITIONS TO AVOID

Exposure to air. Contamination with water.

MATERIALS TO AVOID

Strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS

None.

11. TOXICOLOGICAL INFORMATION**HEALTH EFFECTS****EYE**

Irritating and may injure eye tissue if not removed promptly.

SKIN

Irritation. See "chronic" effects.

INHALATION

Irritating to respiratory system. Inflammation of the nasal mucous membrane by exposure to cement dust.

INGESTION

May cause irritation of mouth, throat and digestive tract.

CHRONIC

Cement, cementitious grouts and mortars are known to cause both irritant and allergic contact dermatitis. Prolonged skin contact can result in chemical burns.

12. ECOLOGICAL INFORMATION**ENVIRONMENTAL ASSESSMENT**

Little detailed information is available on the ecological effects of this product, but its overall environmental impact is not regarded as significant

MOBILITY

Partially soluble in water.

PERSISTENCE AND DEGRADABILITY

Not readily biodegradable.

BIOACCUMULATIVE POTENTIAL

Not expected to be bioaccumulative.

ECOTOXICITY

Not expected to be ecotoxic to fish/daphnia/algae in cured state.

13. DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and national legislation.

UNUSED PRODUCT

Dispose of in an approved manner.

USED/CONTAMINATED PRODUCT

As for Unused product.

PACKAGING

The method of disposal must be acceptable to the local authority.

14. TRANSPORTATION INFORMATION

This product is NOT classified as dangerous for transport.

15. REGULATORY INFORMATION**HAZARD LABEL DATA**

IRRITANT

NAMED INGREDIENTS

cement powders

SYMBOL(S)

Xi

RISK PHRASES

Irritating to eyes, respiratory system and skin.

SAFETY PHRASES

Do not breathe dust

Avoid contact with skin and eyes

Wear suitable gloves and eye/face protection

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice After contact with skin, wash immediately with plenty of soap and water

B 31

EC DIRECTIVES	Dangerous Substances Directive, 67/548/EEC and adaptations. Dangerous Preparations Directive, 88/379/EEC. Safety Data Sheets Directive, 91/155/EEC.
STATUTORY INSTRUMENTS	Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regs. 1996 (SI 1092). Health & Safety at Work, etc. Act 1974. Control of Substances Hazardous to Health Regs. 1994 (SI 3246).
CODES OF PRACTICE	Waste Management. The Duty of Care.
GUIDANCE NOTES	Occupational skin diseases: health and safety precautions (EH 26). Dust in the workplace: general principles of protection. (EH44). Occupational exposure limits (EH 40).

The above publications are available from HMSO

16. OTHER INFORMATION

TRAINING ADVICE : The details of this data sheet must be passed on to all personnel handling the products.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.