



1. Identification of the substance/preparation and company

Product Name: Mondéco Earth Base A.

Application: Epoxy resin component of a multi-pack anti-bacterial terrazzo floor system.

Mixed material is applied by Flowcrete sledge or wooden float and finished with a

trowel.

Manufacturer:

Flowcrete S.A. (Pty) Ltd, 176 Voortrekker Street, Jacobs, 4026

Tel: +27 31 461 3411 Fax: +27 31 461 3475

E-mail: southafrica@flowcrete.com Website: http://www.flowcrete.com

2. Composition/information on constituents

Chemical Name	EINECS No.	CAS No.	% by weight	Symbols and Risk Phrases
Bisphenol A/F epoxy resins, mw	-	25068-38-	> 50	Xi; N; R43. R36/38.
<700		6		R51/53.
Aliphatic glycidyl ether	240-260-4	16096-31-	< 20	Xi; R43. R36/38. R52/53.
		4		
Solvent naphtha (petroleum),	265-199-0	64742-95-	< 5	Xn; N; R10. R37. R51/53.
light aromatic (< 0.1% benzene)		6		R65.
Tri-n-butyltin maleate	223-701-5	4027-18-3	< 2	Xn; N; R20/22. R36/37/38.
·				R50.
Also may contain various non-classified pigments, thixotropic agents, surfactants and additives.				

See section 16 Additional information, for full text regarding symbols and Risk phrases.

3. Hazards Identification

Irritating to eyes and skin. Acute effects: Contact with eyes may cause mild irritation and discomfort. Contact with skin causes irritation, redness and discomfort which is transient.

May cause sensitisation by skin contact. Repeated and /or prolonged exposure may cause an allergic eczema reaction/sensitisation. Once sensitised, an individual may produce an allergic reaction every time they are in contact with epoxy resin.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First Aid measures

General Information : In case of accident or you feel unwell, seek medical advice and take the relevant safety data sheets. Never give anything by mouth to an unconscious person.

Inhalation: Move to fresh air. If breathing has stopped or is laboured give assisted respiration

(e.g. mouth to mouth). If symptoms persist seek medical advice.

Prevent aspiration of vomit, turn victim's head to the side.

Skin contact

: Remove contaminated clothing and shoes. Remove product from skin and wash

with soap and Plenty of water. Clean with detergents, avoid use of solvents.

Eye : Hold eyelids apart and immediately flush with plenty of

Contact

: Hold eyelids apart and immediately flush with plenty of water for at least 15 minutes.

If irritation persists, seek medical advice.

Ingestion

: Immediately seek medical advice. Do not induce vomiting (unless under medical supervision).

If a person vomits when lying on his back, place him in the recovery position.

5. Fire-fighting measures

Suitable extinguishing media

. wai

: Water spray, carbon dioxide (CO₂), foam, dry powder.

Un-Suitable extinguishing

media

: High volume water jet.

Special exposure hazards: Burning produces noxious and toxic fumes – carbon oxides.

Under conditions of incomplete combustion or pyrolysis, phenolics

and carbon oxides may be evolved.

Special protective equipment

Additional information

: Wear self-contained breathing apparatus and protective suit.

: Standard procedure for chemical fires.

Water mist may be used to cool closed containers.

6. Accidental release measures

Personal precautions: Use personal protective equipment as detailed in Section 8.

Ensure adequate ventilation. Do not breath vapours. Keep away from sources of ignition – No smoking.

Environmental precautions

: Prevent the product from entering drains.

Avoid subsoil penetration. Do not contaminate surface water.

Methods for cleaning

up

Soak up with an inert absorbent material (e.g. sand) and dispose of as

hazardous waste in accordance with section 13.

Solvents are not recommended for clean-up unless the recommended

guidelines for the solvent(s) are followed.

Any residual product may be removed using steam or hot soapy water.

7. Handling and storage

Handling: Provide sufficient air exchange and/or exhaust in work rooms. Avoid formation of

aerosol.

Ensure adequate ventilation.

Use personal protective equipment as detailed in Section 8.

Handle and open container with care. Do not eat, drink or smoke when handling.

Storage: Keep containers tightly closed and store in a cool, well-ventilated place.

Keep away from drink, food, food containers and animal feeding stuffs.

Do not store with strong bases, strong acids and strong oxidising agents.

8. Exposure controls/personal protection

Workplace Exposure Limits:

Solvent naphtha:- 50 ppm (8 hour Time Weighted Average)

Tin compounds, organic 0.1 mg/m³ 8hr TWA 0.2 mg/m³ 15 min Short Term Exposure Limit

(STEL)

Engineering measures to reduce

exposure

: Ensure adequate ventilation, especially in

confined areas.

Personal protective equipment

Mondéco Earth Base A

Date printed 22 May, 2008

Page 2 of 6

Ref: CHIP300178

Respiratory protection : Not required under normal conditions in a well ventilated

workplace.

Eye protection : Closely fitting safety goggles.

Rubber or plastic gloves (Polyvinyl, nitrile-butyl). Hand protection

Check regularly for degradation/holes and replace as

necessary.

Skin and body protection : Protective suit and heavy duty work shoes.

Protective measures Handle in accordance with good industrial hygiene and safety

practice.

Wash hands before breaks and immediately after handling the

product.

When using do not eat, drink or smoke.

9. Physical and chemical properties

: Liquid, colour on label рН Appearance ~7

Odour : Slight, faint epoxy Relative ~1.22 at 20°C

Density

Boiling Point : >100°C Water solubility : Practically insoluble at

20°C

Flashpoint : >70°C Water : Immiscible

miscibility

Explosion

: Not available.

limits Vapour

pressure

: < 0.01 Pa at 20 °C for epoxy resin (100Pa = 1mbar)</p>

10. Stability and reactivity

Material is stable.

Conditions to

avoid

Take precautionary measures against extremes of temperature.

Excessive heating over a prolonged period of time degrades the product,

causing discoloration.

Take necessary action to avoid static electricity discharge.

Materials to avoid : Strong acids, strong bases, strong oxidising agents and

amines.

Hazardous decomposition

products

: Burning produces noxious and toxic fumes.

Carbon monoxide (CO), carbon dioxide (CO₂).

11. Toxicological information

Acute oral toxicity : LD₅₀ (rat) dose > 5,000 mg/kg (epoxy resin)

 LD_{50} (rat) dose = 2,900 mg/kg (aliphatic glycidylether)

Eye irritation : Irritating (rabbit)

Skin Irritation : Irritating (rabbit) dermal

Sensitisation Repeated and/or prolonged exposure has caused allergic

eczema/sensitisation in humans.

Long term toxicity : No data known.

Mondéco Earth Base A Date printed 22 May, 2008 Page 3 of 6 Ref: CHIP300178 **Mutagenicity**: No data known.

Carcinogenicity : A recent review of available data for the type of epoxy resin used in this

product by the IARC (International Agency for Research into Cancer)

has concluded:

Group 3: Unclassifiable as to carcinogenicity to humans.

Reproductive toxicity

(fertility,

developmental)

: No data known.

12. Ecological information

Ecotoxicity : Tri-n-butyltin maleate:

Epoxy Resin

LC₅₀ / 96 hrs / rainbow trout / 2.4 mg/l

 LC_{50} / 24 hrs / daphnia magna Straus 1820 / 3.6 mg/l

Mobility : Mobile.

Persistence and degradability

Not readily biodegradable.

Bioaccumalative

potential

: No data available.

Additional ecological

information

Avoid subsoil penetration.

Prevent product from entering drains, do not contaminate surface

water.

13. Disposal considerations

Unused Product/waste from

cleaning etc.

: Dispose in compliance with local and national regulations.

Use EC Waste Catalogue (EWC) code: 08 01 11

Contaminated packaging

: If the container has been used for mixing with the Hardener, can be disposed in accordance with local

regulations.

Use EWC Code: 150102 for plastic or 150104 for

metal.

Remove/invalidate the warning label.

If the container has not been used for mixing with the Hardener, treat as hazardous waste, use EWC code:

150110*.

Empty containers can be disposed of as non-hazardous

waste after cleaning.

Use EWC Code: 150102 for plastic or 150104 for

metal.

Remove/invalidate the warning label.

14. Transport information

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.

UN No: 3082

ADR/RID

: 11° c Item No Class : 9 HI No **Packing Group** 90 Ш

Contains : Bisphenol A epoxy resin

IMO

Class Marine Pollutant 9 : Yes.

Packing Ш

Group

Bisphenol A epoxy resin Contains

IATA

Class Packing : 914

Instruction

Packing (Cargo aircraft) III

Group

Contains : Bisphenol A epoxy resin

15. Regulatory information

Classification according to EEC directive:





Xi - Irritant

N – Dangerous for the environment

R-phrases

Symbols:

R36/38 : Irritating to eyes and skin.

R43 : May cause sensitisation by skin contact.

R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

S-phrases

S28 : After contact with skin, wash immediately with plenty of water and soap.

S36/37/ : Wear suitable protective clothing, gloves and eye/face protection.

39

S60 This material and its container must be disposed of as hazardous waste.

Avoid release to the environment. Refer to special instructions/safety data sheets. **S61**

: Bisphenol A – epoxy resins, mw <700

Special provisions : Contains epoxy constituents. See information supplied by the

statement manufacturer.

Hazardous component(s)

label

which must be listed on the

Dangerous Substances Directive, 67/548/EEC & adaptations

Dangerous Preparations Directive, 88/379/EEC

Safety Data Sheets Directive, 91/155/EEC

Statutory Instruments:

EC Directives:

Chemicals (Hazard Information & Packaging for Supply) Regs 2002.

Control of Substances Hazardous to Health Regs 2002

Environmental Protection (Duty of Care) Regs. 1991.

Codes of Practice Waste Management. The Duty of Care.

Approved classification and labelling guide (Fifth edition). L131.

The compilation of safety data sheets (Third edition).

Guidance Notes Occupational Exposure Limits EH40

CHIP for Everyone HSG(108)

16. Other Information

Mondéco Earth Base A Date printed 22 May, 2008 Page 5 of 6 Ref: CHIP300178 This safety data sheet has been prepared in accordance with CHIP3. The provision of Safety data sheets comes under Regulation 6 of CHIP (CHIP is the recognised abbreviation for the Chemicals, Hazard Information and Packaging Regulations). This is in addition to the Health and Safety at Work Act 1974.

Users of our products should take appropriate measures to ensure working practices are in accordance with the Control of Substances Hazardous to Health Regulations (COSHH). This data sheet does not replace the obligation of the user to provide their own assessment of workplace risk as required by other Health & Safety legislation.

EC Directive relating to the classification, packaging and labelling of dangerous substances and preparations –

Classification(s) and Risk (R) phrase(s) referred to in this document:

Xi : Irritant. N : Dangerous for the environment.

X : Harmful

n

R10 : Flammable.

R20/22 : Harmful by inhalation and if swallowed.

R36/38 : Irritating to eyes and skin.

R36/37/ : Irritating to eyes, respiratory system and skin.

38

R43 : May cause sensitisation by skin contact.

R50 : Very toxic to aquatic organisms.

R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R65 : Harmful: may cause lung damage if swallowed.

Training Advice

Operators need to be trained in:-

Handling and hygiene associated with use of industrial chemicals.

Correct mixing and application of the product.

Correct cleaning and disposal methods.

Restrictions on Use

The product is intended for use by appropriately trained applicators in industrial situations. It is not suitable for use in home DIY applications, especially because of its hazardous nature and the protective measures required.

Notes

Do not use organic solvents for skin cleansing, it will lead to defatting of the skin, skin irritation and/or dermatitis.

Some solvents can be absorbed through the skin.

Beware of cross contamination where different products are in use in the same location.

Take into account the manual handling regulations when dealing with the mixed product.

Always wet grind the floor to minimise dust creation.

This safety data sheet is based on our present knowledge and experience and is intended to serve as a guide for safe handling of the product regarding to health and environmental aspects.

Mondéco Earth Base A