



MATERIAL SAFETY DATA SHEET

1. Identification of the substance/preparation and company

Product Name:	Flowfresh WR Base A, various colours
Application:	Polyol based component of a 3 pack polyurethane resin floor screed. Mixed product is applied using a trowel.
Manufacturer:	Flowcrete SA (Pty) Ltd 176 Voortrekker Street Jacobs 4052
Telephone Number:	(031) 461 3411

2. Composition/information on constituents

Chemical Name	EINECS No.	CAS No.	% by weight	Symbols and Risk Phrases
Dipentene/terpene alcohols mixture	205-341-0	138-86-3	< 3	Xi; N; R10. R38. R43. R50/53.

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

Irritant. 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 this product.

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

When the base is mixed with the hardener an exothermic reaction starts (i.e. heat is generated). If the mix is not applied within 20 - 30 minutes some smoking may occur.

4. First Aid measures

- Inhalation** : Remove from exposure – unlikely to occur because of the low volatility of the product.
- Skin contact** : Wash with soap and plenty of water or a suitable skin cleanser as soon as possible. If a rash develops and/or irritation persists, seek medical advice.
- Eye Contact** : Hold eyelids apart and immediately flush with plenty of water for at least 15 minutes. If irritation persists, seek medical advice.
- Ingestion** : Wash out mouth with water. Drink 3 or 4 glasses of water. Obtain medical attention. Do not induce vomiting unless under medical supervision.

5. Fire-fighting measures

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

media
Un-Suitable extinguishing media : High volume water jet.
Special exposure hazards : Burning produces noxious and toxic fumes – mostly carbon oxides, with a small amount of nitrogen oxides and a trace of hydrogen cyanide.
Special protective equipment : Wear self-contained breathing apparatus and protective suit.
Additional information : None.

6. Accidental release measures

Personal precautions : Be aware the product may cause a slip hazard. Ensure adequate ventilation.
Use personal protective equipment as detailed in Section 8.
Environmental precautions : Prevent entry into drains, sewers and water courses.
Methods for cleaning up : Soak up with inert absorbent material or contain and remove by best available means. Collect in suitable containers for disposal in accordance with Section 13

7. Handling and storage

Handling : Ensure adequate ventilation. Use personal protective equipment as detailed in Section 8.
Handle and open container with care. Avoid skin and eye contact.
Wash hands thoroughly after handling or contact.
Storage : Store in a dry, cool, well-ventilated place.

8. Exposure controls/personal protection

Exposure limit values:- No ingredients with limits assigned.

Engineering measures to reduce exposure : No specific ventilation requirement noted.
Personal protective equipment :
Respiratory protection : Not required.
Eye protection : Goggles or face shield.
Hand protection : Impervious gloves e.g. nitrile rubber.
Check regularly for degradation 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

Appearance : Liquid, colour on label Relative Density : ~1.02

Odour	: Slight	Water solubility	: Insoluble
Boiling Point	: Not determined, but >100°C	Miscibility	: ~1%
Flashpoint	: >100°C	Vapour pressure	: Not determined.
Explosion limits	: Not applicable		

10. Stability and reactivity

Material is stable if stored as indicated in section 7.

Conditions to avoid	: None known.
Materials to avoid	: Strong oxidising agents.
Hazardous decomposition products	: Thermal decomposition - irritant and noxious fumes, mostly carbon oxides, with small amounts of nitrogen oxides and a trace of hydrogen cyanide.

11. Toxicological information

Acute oral toxicity	: LD ₅₀ Oral (Rat) : > 2,000 mg/kg (Based on a knowledge of the toxicity of the components.)
Eye irritation	: May cause transient irritation.
Skin Irritation	: Unlikely to irritate on brief or occasional exposure.
Sensitisation	: Dipentene/terpene alcohols mixture is a skin sensitiser (from experience in use).
Long term toxicity	: No data.
Mutagenicity	: There is no known evidence this material or its constituents are mutagenic.
Carcinogenicity	: There is no known evidence this material or its constituents are carcinogenic.
Reproductive toxicity (fertility, developmental)	: There is no known evidence this material or its constituents are toxic for reproduction.

12. Ecological information

Ecotoxicity	: Harmful to aquatic organisms, may cause long-term effects in the aquatic environment.
Persistence and degradability	: <u>Dipentene/terpene alcohols mixture</u> 100% volatile, but with a slow evaporation rate.
Bioaccumulative potential	: Not known.
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.	: Must be land filled or incinerated in compliance with local regulations.
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EC Waste Catalogue (EWC) code: 08 01 12 Waste products from the Manufacture, Formulation, Supply and Use (MFSU) of paint and varnish. Waste paints and varnish other than those mentioned in 08 01 11.

Contaminated packaging : Treat as for unused product.

Empty containers can be landfilled after cleaning, in accordance with local regulations. Remove/invalidate the warning label.

14. Transport information

Not regulated for transport.

15. Regulatory information

Classification according to EEC directive:

Symbols:



Xi – Irritant

- R-phrases** :
- R43** : May cause sensitisation by skin contact.
 - R52/53** : Harmful 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.
 - S36/37/39** : Wear suitable protective clothing, gloves and eye/face protection.
 - S61** : Avoid release to the environment. Refer to special instructions/safety data sheet.

Special provisions statement : None.

Hazardous component(s) which must be listed on the label : Dipentene/terpene alcohols mixture

EC Directives: Dangerous Substances Directive, 67/548/EEC & adaptations
Dangerous Preparations Directive, 1999/45/EC
Safety Data Sheets Directive, 91/155/EEC

Statutory Instruments: 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

This safety data sheet has been prepared in accordance with CHIP3. The data sheet has been modified in Sections 2, 3, 9, 11, 12, 13, 14, 15 and 16. 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.

R10 : Flammable.
R38 : Irritating to skin.
R43 : May cause sensitisation by skin contact.
R50/53 : Very 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.

Training Advice

Applicators 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

The European Committee of Paint, Printing Ink and Artist's Colours Manufacturers' Associations (CEPE) provides the following information on coatings containing isocyanates:-
"Ready-to-use paints containing isocyanates may have an irritant effect on mucous membranes – especially on breathing organs – and cause hypersensitivity reactions. Inhalation of vapour or spray mist may cause sensitisation. When handling paints containing isocyanates all precautions required for solvent-containing paints must be followed. Vapour and spray mist in particular should not be inhaled. Persons who are allergic, asthmatic or prone to respiratory ailments should not work with isocyanate-containing paints."

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.

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.