

DESIGNER

CONCRETE COATINGS

MATERIAL SAFETY DATA SHEET (MSDS) CLEAR CONCRETE SEALER

THIS PRODUCT IS CLASSIFIED HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA

IDENTIFICATION

Other Names:	Decorative Concrete Sealer; Concrete Resurfacing Sealer; Concrete Prime & Seal; Colour Sealer Base
Manufacturer's Product Code:	None allocated
UN Number:	1866
Dangerous goods class & subsidiary risk:	3
Hazchem Code:	3[Y]
Poisons Schedule Number:	5
Use:	Clear Concrete Sealer for plain or coloured concrete flatwork surfaces; Spray-on resurfaced concrete flatwork; and, Colour-pigmented sealer for concrete flatwork surfaces. The product is not suitable for use as a concrete or masonry waterproofing agent.

Physical Description/Properties –

Clear or colour-pigmented liquid solution of acrylic co-polymer resins & hydro-carbon solvents:

Appearance:	Clear liquid form or containing pigmented colour.
Boiling Point/Melting Point:	Range 137°C to 175°C
Vapour Pressure:	1.7kPa
Specific Gravity:	Not assigned
Flashpoint:	43°C. Avoid open flame sources
Flammable Limits:	Upper Explosion Limit: 7.0% Lower Explosion Limit: 0.9% Avoid exposure to extreme heat & flame sources
Solubility in Water:	Insoluble
Solubility in Organic Solvents:	Soluble

Other Properties: Volatiles %:73. Relative Density:0.922. Odour: Strong vapourable hydrocarbon solvent. Safe handling advice must be observed.

<u>Ingredients</u>	<u>CAS Number</u>	<u>Proportion %</u>
Liquid Hydrocarbons	1330-20-7 / 64742-95-6	> 60%
Acrylate/Methacrylate Copolymer	28262-63-7	20% to 30%
Proprietary Plasticizer	N/A	< 5%
Proprietary Filler	N/A	< 5%
Proprietary Ingredients	N/A	to 100%

HEALTH HAZARD INFORMATION

ACUTE HEALTH EFFECTS

Swallowed

Toxic if swallowed. Solvent content may cause acute irritation to mouth and throat. Seek immediate advice from Poison's Information Centre, Australia. Phone:131126 or seek emergency hospital treatment.

Eye

Short term exposure:irritating

Long term exposure: irritating, may cause inflammation of the cornea and other central nervous system effects

Skin

Short term exposure: irritating

Long term exposure: may cause allergic dermatitis to some individuals

Inhaled

Irritating to nose, throat and respiratory system causing dizziness, headache, coughing and sneezing.

CHRONIC HEALTH EFFECTS

Inhaled

Long term exposure and repeated inhalation of high vapour concentrations may cause damage to respiratory system. Studies have shown that smoking can significantly increase the risk of these conditions in persons consistently exposed to vapour emissions from liquid hydrocarbons.

FIRST AID TREATMENT

Swallowed

Immediately wash mouth and lips with water. DO NOT induce vomiting. Drink plenty of water to dilute stomach contents. Seek immediate medical advice. No health hazard expected with very small ingested quantities.

Skin

Wash with tepid soapy water. A shower may be required.

Eyes

Irrigate with copious quantity of water for at least 15-30 minutes. Seek medical attention if eye irritation persists.

Inhaled

Move to fresh air, flush nasal passages, wash mouth, lips and throat with water.
Seek medical attention if symptoms persist.

Advice to doctor/First Aid Facilities

Treat symptomatically, Eye wash station. Fresh,clean water readily accessible at all times.

PRECAUTIONS FOR USE

EXPOSURE LIMITS

Worksafe Australia exposure Standard

Classified as an irritant substance.

50 ppm for 8-hour working day exposure.

However, where a State or Territory prescribes a lower exposure standard, the lower exposure standard applies.

MANUFACTURERS RECOMMENDATIONS

Keep exposure to ingredients and vapour emissions as low as practicable. If inspirable vapour levels and substance exposure are kept below 50ppm, health problems such as skin, eye and respiratory irritation will be minimised.

ENGINEERING CONTROLS

Avoid generating high vapour emissions.. All work with liquid hydrocarbons should be carried out in such a way as to minimise exposure to vapour inhalation and repeated skin and eye contact. Use local mechanical ventilation or extraction (face velocity > 20m/min) in areas where vapour emission could escape into the work environment. For handling of the product, follow personal protection instructions below.

Important Advice: Avoid heating the product and exposure to heat and flame sources.

PERSONAL PROTECTION

Skin

Wear loose comfortable protective clothing and impervious boots. Wear gloves (AS 2161). Wash skin-exposed areas thoroughly after handling. Launder clothes regularly and keep separate from other clothes.

Eyes

Wear chemical safety spectacles with side shields or safety goggles (chemical vapour resistant AS/NZS 1336). At all times, exposure to vapour emissions and accidental contact is likely to be generated.

Respiratory

Wear a class P1 or P2 particulate respirator (AS/NZS 1715 &1716). Use only respirators which bear the Australian Standards mark and are fitted correctly. Note that persons with facial hair will have difficulty in obtaining a satisfactory face seal. For alternatives, see AS/NZS 1715: Selection and Use of Respiratory Protective Devices.

Flammability

Flammable liquid constituents. Avoid exposure to flame sources at all times.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Storage Temperature:	Room temperature
UN Class:	Non allocated
Packaging Group:	111
UN Number:	1866
EPG Number:	None allocated
Correct Shipping Name:	Resin solution – flammable.
Storage Advice:	Keep dry at all times. Storage of opened drums is hazardous and will effectively reduce product quality and use within a short space of time. The product is

flammable. Isolate from all heat and flame emission sources. Ensure all electrical fittings and static electricity sources are properly earthed. Avoid exposure to alkalis, foodstuffs and food containers. Avoid oxidising agents (chlorates & nitrates etc). Remove pail & drum container bungs and lids slowly to release internal pressure. In extreme fire conditions, containers are likely to form explosive air-vapour mixture. *Classified as a dangerous good under the Australian Transport of Dangerous Goods Code.*

Transport by rail, road or ship in sealed fit-for purpose metal pails or drums. Hazchem Code: 3[Y]
Keep dry in weatherproof vehicles and storage sheds. Avoid exposure to direct heat & flame sources.

SPILLS AND DISPOSAL

Follow safety requirements for personal protection. If spills occur, remove or isolate all ignition sources. Contain & absorb spill in dry, inert material such as sand. Collect in sealable containers and dispose of as trade waste in accordance with local authority guidelines. Keep out of sewer and storm water drains.

FIRE / EXPLOSION HAZARD

The material is flammable and explosive air-vapour mixture will form if sealed containers are exposed to very high-temperature direct heat or acute fire conditions. Fire fighters are advised to use self contained breathing apparatus in all fire hazard situations. *Hazardous decomposition – smoke & carbon monoxide. Hazardous polymerisation – unlikely.* Do not reseal used product drums & pails. Expose to air to extinguish vapour emissions and until sealer residue has achieved hard-set.

DECOMPOSITION PRODUCTS

<i>In case of small fire/explosion use:</i>	Foam, CO ₂ or dry chemical. Cool drums with water spray
<i>In case of major emergency:</i>	Water spray drums. Use foam or dry chemical.
<i>HAZCHEM CODE:</i>	3[Y]
<i>Extinguishment:</i>	As above, or as for other chemicals present
<i>Danger of violent reaction or explosion:</i>	Yes. In volatile heat & fire conditions.
<i>Protective clothing:</i>	As for other chemicals present
<i>Appropriate measures:</i>	Dilute
<i>Evacuate:</i>	Yes

OTHER INFORMATION

Smoking: Cigarette smoking increases the risk of occupational respiratory diseases. It is recommended that all storage and work areas should be smoke-free zones.

CONTACT POINT: Fire – Ambulance – Police. Call 000. Poisons Information: Call 131 126

For General Information:
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This Materials Safety Data Sheet has been prepared in accordance with the guidelines stipulated in the "Worksafe" legislation encompassing the "Occupational Health and Safety Act – 1983" (as amended). All information contained herein is as up-to-date as possible and supplied in good faith by the product manufacturer. No warranty expressed or implied is made to its completeness, accuracy and reliability. It is the user's responsibility to determine the safety, risk and fitness-for-purpose of the product under the conditions and environment where the product is intended to be used. Designer Concrete Coatings Pty Ltd shall not be liable for personal injury or property damage associated with use or misuse of the product.