



# Material Safety Data Sheet

Hazardous according to criteria of NOHSC Australia

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

**Product Name::** Degacote C4 (Concrete Sealer)

**Synonyms:**

**CAS-No.:**

**Molecular Formula:**

**Supplier:** TCP Pty Ltd  
**ACN:** 006 584 498  
**ABN:** 41 006 584 498  
**Street Address:** 1 Shelley Court  
Kilsyth Vic 3137  
Australia  
**Telephone:** + 613 9725 9590  
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**Emergency telephone numbers:** Bill Gorman 0403 266 785  
Frank Carmody 0411 831 276

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Recommended use:** As a clear sealing coat for concrete surfaces, (can be pigmented).

**Appearance:** Clear, acrylic resin solution.

CHEMICAL ENTITY	CAS NO.	PROPORTION
Solvent Naphta	64742-95-6	HIGH
Xylene	1330-20-7	HIGH
*Other Ingredients		MEDIUM

\* Other ingredients, determined not to be hazardous according to NOHSC criteria and not dangerous according to the ADG Code.

PROPORTION (% by weight):  
VHIGH>60    HIGH 30-60    MED 10-29    LOW 1-9    VLOW <1

## 3. HAZARDS IDENTIFICATION –

This product is classified in accordance to NOHSC Criteria, and ADG Code.



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<b>Classification</b>	:	N, R51/53 Xi, R36/37/38 Xn, R20/21 R10
<b>Risk phrases</b>	:	R10 - Flammable. R20/21 – Harmful by inhalation and in contact with skin. R36/37/38 – Irritating to eyes, respiratory system and skin. R51/53 – Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Safety phrases</b>	:	S36/37 – Wear suitable protective clothing and gloves. S61 – Avoid release to the environment. Refer to special instructions/safety data sheet.
<b>Statement of Hazardous/dangerous nature</b>	:	HAZARDOUS SUBSTANCE, DANGEROUS GOODS

## 4. FIRST AID MEASURES

### First aid measures

<b>Inhalation</b>	:	Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Ingestion</b>	:	Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Skin Contact</b>	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Eye Contact</b>	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.



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**Protection of first aid personnel** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

**Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## Over – exposure signs/symptoms

**Inhalation** : Adverse symptoms may include the following: respiratory tract irritation, coughing.

**Ingestion** : No specific data.

**Skin** : Adverse symptoms may include the following : irritation, watering, redness.

**Eyes** : Adverse symptoms may include the following : irritation, watering, redness.

See section 11 for more detailed information on health effects and symptoms.

## 5. FIRE-FIGHTING MEASURES

**Flammability of the product** : Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire r explosion hazard.

### Extinguishing media

**Suitable** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Not Suitable** : Do not use water jet.

**Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal Decomposition Products** : Decomposition products may include the following materials: carbon dioxide, carbon monoxide.

**Special protective equipment For Fire fighters** : Fire-Fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Hazchem code** : 3(Y)



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## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. (see section 8)
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
- Methods for cleaning up**
- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7. HANDLING AND STORAGE

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. **Avoid contact with eyes, skin and clothing.** Avoid breathing vapour or mist. Avoid release to the environment. Refer to special instructions/safety data sheet. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary



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measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Storage** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well ventilated area. Away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure limit values

#### Ingredients name

Australia

Xylene (mixed isomers)

### Occupational exposure limits

#### **Safe Work Australia**

STEL (15 mins) 655 mg/m<sup>3</sup> 150 ppm

#### **Safe Work Australia**

8 –hr TWA 350 mg/m<sup>3</sup> 80 ppm

### **Recommended monitoring**

#### **Procedures**

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

### Exposure controls

#### **Engineering measures**

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### **Respiratory protection**

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.



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<b>Hand protection</b>	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
<b>Eye protection</b>	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
<b>Skin protection</b>	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Environmental exposure Controls</b>	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General information

#### Appearance

<b>Physical State</b>	:	Viscous liquid
<b>Color</b>	:	Clear,colorless/colourless
<b>Odor</b>	:	Aromatic Solvent

### Important health, safety and environmental information

<b>pH</b>	:	Not available
<b>Boiling point</b>	:	136 - 182 <sup>o</sup> C (277 – 360 <sup>o</sup> F)
<b>Melting Point</b>	:	Not available
<b>Flash point</b>	:	24 <sup>o</sup> C (75 <sup>o</sup> F)
<b>Explosion limits</b>		
<b>Lower:</b>	:	0.01 % (V)
<b>Upper:</b>	:	7.1% (V)
<b>Vapor pressure</b>	:	8-12 hPa @20 <sup>o</sup> C (68 <sup>o</sup> F) (Solvent)
<b>Relative density</b>	:	0.93
<b>Solubility in water</b>	:	Immiscible
<b>Octanol/water partition</b>	:	Not determined
<b>Coefficient</b>		
<b>Viscosity</b>	:	Dynamic-40 – 100 mPa.s 25 <sup>o</sup> C
<b>Vapor density</b>	:	Not available
<b>Evaporation rate</b>	:	Not available

### Other information

<b>Auto-ignition temperature</b>	:	Not available
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## 10. STABILITY AND REACTIVITY

<b>Chemical stability</b>	:	The product is stable
<b>Possibility of hazardous reactions</b>	:	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	:	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld braze, solder, drill, grind or expose containers to heat or sources of ignition. Avoid release to the environment. Refer to special instructions/safety data sheet.
<b>Materials to avoid</b>	:	Reactive or incompatible with the following materials: oxidizing materials.
<b>Hazardous decomposition products</b>	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. TOXICOLOGICAL INFORMATION –

<b><u>Potential acute health effects</u></b>		
<b>Inhalation</b>	:	Harmful by inhalation. Irritating to respiratory system.
<b>Ingestion</b>	:	Irritating to mouth, throat and stomach.
<b>Skin contact</b>	:	Harmful in contact with skin. Irritating to skin.
<b>Eye contact</b>	:	Irritating to eyes.
<b><u>Potential chronic health effects</u></b>		
<b>Chronic effects</b>	:	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	:	No known significant effects or critical hazards.
<b>Mutagenicity</b>	:	No known significant effects or critical hazards.
<b>Teratogenicity</b>	:	No known significant effects or critical hazards.
<b>Developmental effects</b>	:	No known significant effects or critical hazards.
<b>Fertility effects</b>	:	No known significant effects or critical hazards.



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## **Substance**

### **Acute toxicity**

Solvent naphtha (petroleum), light arom. A complex combination of hydrocarbons obtained from distillation of aromatic streams. It co

LD50 Oral	Rat	8,400 mg/kg
LD50	Quail	>2,150 mg/kg

Xylene (mixed isomers)

LD50 Oral	Rat	4,300 mg/kg
LC50 inhalation	Rat	5000 ppm/4 h
LD50 Dermal	Rabbit	>1,700 mg/kg

## **Carcinogenicity**

### **Classification**

#### **Ingredient name**

Solvent naphtha (petroleum), light arom. A complex combination of hydrocarbons obtained from distillation of aromatic streams. It co

ACGIH	Not classified
IARC	Not classified
NTP	Not listed
OSHA	Not regulated
EU	Not classified

Xylene (mixed isomers)

ACGIH	Not classifiable as to its carcinogenicity to humans.
IARC	IARC Group 3, not classifiable as to carcinogenicity to humans.
NTP	Not listed
OSHA	Not regulated
EU	Not classified

## **12. ECOLOGICAL INFORMATION**

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

### **Aquatic ecotoxicity**

#### **Ingredients name**

Xylene (mixed isomers)

Fresh Water	Acute LC50 13.4 mg/196 h	Fathead minnow
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**Other adverse effects** : No known significant effects or critical hazards.

## **13. DISPOSAL CONSIDERATIONS**

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed



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waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 14. TRANSPORT INFORMATION

Regulatory Information	UN/NA number	Proper shipping name	Classes / * PG
ADG	1866	RESIN SOLUTION, FLAMMABLE CONTAINS (Xylene, Light Aromatic Solvent Naphtha (petroleum))	3 III
ADR	1866	RESIN SOLUTION, FLAMMABLE	3III
ICAO/IATA	1866	RESIN SOLUTION, FLAMMABLE CONTAINS (Xylene, Light Aromatic Solvent Naphtha (petroleum))	3 III
IMO/IMDG	1866	RESIN SOLUTION, FLAMMABLE CONTAINS (Xylene, Light Aromatic Solvent Naphtha (petroleum))	3 III
Hazchem code		: 3 (Y)	

## 15. REGULATORY INFORMATION

### Control of Scheduled Carcinogenic Substances

<u>Ingredient name</u>	<u>Schedule</u>
EU Classification	: N,R51/53 Xi, R36/37/38 Xn, R20/21 R10
HCS Classification	: Flammable liquid Irritating material Carcinogen Target organ effects



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## International regulations

### **Chemical inventories**

Australia inventory (AICS) All components are listed or exempted.  
Canada inventory All components are listed or exempted.  
Europe inventory All components are listed or exempted.  
Japan inventory Not determined.  
China inventory (IECSC) All components are listed or exempted.  
Korea inventory All components are listed or exempted.  
New Zealand Inventory (NZIoC) Not determined.  
Philippines inventory (PICCS) Not determined  
United States inventory (TSCA 8b) All components are listed or exempted.

## **16. OTHER INFORMATION**

**DATE of ISSUE / REVISION** : March 2011  
**DATE of PREVIOUS ISSUE** : Jan 2010

**REASON FOR ISSUE** : To provide additional information.

**NOTICE TO READER** :

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the work place. Since TCP Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must prior to usage, review the MSDS in the Context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

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