Material Safety Data Sheet

1. Product and Company Identification

Product Name: Norfolk Sealer

Trade Name: Norfolk Sealer

Recommended Use: Concrete Coating

Revision Date: 15/02/10

Company Name: On-Crete Australia Pty Ltd

Address: 4/66 Casua Dr, Varsity Lakes
QLD 4227
Australia
Ph: (07) 5593 6884 Fax: (07) 5593 6885

In the event of emergency human exposure: Poisons Information Centre
Ph: 131136

Hazardous according to the criteria of NOHSC

2. Composition/Information on Ingredients

Ingredients considered hazardous according to the criteria of NOHSC:

Chemical Name	CAS #	Proportion
Solvent Naphtha Light Aromatic	[64742-95-6]	30- 60% Xn, N
Acrylic Polymer	Proprietary	30- 60%
Xylene	[1330-20-7]	10-<30% Xn

Ingredients determined not to be hazardous to 100%

3. Hazards Identification

Risk Phrases:
R10 Flammable.
R20/21 Harmful by inhalation and contact with skin
R37/38 Irritating to the respiratory system and skin
R65 Harmful: May cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
R51/53 Toxic to aquatic organisms may cause long term adverse effects in the aquatic environment.

Safety Phrases:
S2 Keep out of the reach of children.
S23 Do not breathe vapour.
S24/25 Avoid contact with skin and eyes.
S51 Use in well ventilated areas

S61 Avoid release to the environment. Refer to special instructions/material safety data sheets.
S62 If swallowed, do not induce vomiting; Seek medical advice immediately and show this container or label.

Poison Schedule (Australia): This material is a Scheduled (S5) Poison and must be stored, handled and used in accordance with the relevant regulations.

Warning Statement:
Irritating to respiratory system. Vapours may cause drowsiness and dizziness. May cause moderate irritation to skin. Repeated exposure may cause skin dryness or cracking. Harmful: may cause lung damage if swallowed. Flammable: In use, may form flammable/explosive vapour-air mixture. Electrostatic discharge may be generated during pumping. Electrostatic charges may cause fire. Liquids can release vapours that can form flammable mixtures at temperatures at or above the flash point. Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

4. First Aid Measures

Eyes:
Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids apart to ensure flushing of the entire eye surface. Seek medical attention as soon as possible.

Ingestion:
DO NOT induce vomiting. If vomiting occurs spontaneously, keep airway clear and keep head below hips to prevent aspiration. Seek medical attention IMMEDIATELY. NEVER induce vomiting or give anything by mouth to an unconscious patient.

Inhalation:
Remove victim to fresh air. Persons administering first aid to overexposure victims should carefully wash off any visible product from the victims face. Do not give anything by mouth to an unconscious person. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult administer oxygen. Seek medical attention if ill effects persist.

Skin:
Wash with plenty of soap and water. Remove contaminated clothing and footwear. Wash clothing and contaminated footwear before reuse. Seek medical attention if irritation persists.

Note to doctor:
Treat symptomatically.

5. Fire-Fighting Measures

Flash Point:	30 degrees Celsius (Xylene)
Extinguisher Media:	On large fires use dry chemical, foam or CO2. DO NOT USE WATER IN JET
Special Protective Equipment:	Self contained breathing apparatus and protective clothing should be worn.
Unusual Fire and Explosion Hazards:	Product is flammable and will burn under fire conditions. All potential sources of ignition (open flames, pilot lights, furnaces, spark processes, switches and electrical equipment, static discharge etc.) must be eliminated.

Warning Statement:	This product may form flammable mixtures with air. Vapour may travel a considerable distance to source of ignition and flashback. All potential sources of ignition (open flames, pilot lights, furnaces, spark processes, switches and electrical equipment etc.) must be eliminated in and near work area. Product can accumulate static charges, which can cause an incendiary electrical discharge
Combustion Products:	Toxic fumes of CO2, and other pyrolysis products typical of burning organic material may be evolved on burning or exposure to heat.
Hazchem:	3[Y]

6. Accidental Release Measures

Steps to be taken if material is released or spilled:
Wear appropriate protective clothing. Keep unnecessary people away and isolate hazard area. Stay upwind if possible. Restrict access to contaminated area. Shutoff all ignition sources, and make sure there are no flares, no smoking or flames in the hazard area. Take precautionary measures against static electricity. Ensure electrical continuity by earthing all equipment. Stop spill at source if you can do so without risk. Keep out of low areas. Water spray may reduce vapour but may not prevent ignition in enclosed spaces. Dike to prevent spreading. Collect free liquid into a recovery vessel. Cleanup material using non sparking tools. Absorb remainder with sand or clay and place in a properly labelled waste receptacle. Follow all government and local body regulations for disposal. Do not contaminate water while cleaning equipment or disposing of wastes. Prohibit contamination of streams, lakes and other bodies of water.

Container Disposal:
DO NOT reuse container. Dispose of safely.

7. Handling and Storage

Handling:
Avoid contact with skin, eyes and all other personal contact. Handle in accordance with good industrial hygiene and safety practises. Wash hands thoroughly after contact. Wear protective clothing when risk of exposure occurs. Avoid inhalation of vapour or mist. Only use in a well ventilated area. Do not smoke. Extinguish any flames. Avoid sparks. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by earthing all equipment. Containers, even those that have been emptied can contain explosive vapours. Do not cut, weld, grind or perform similar operations on or near containers.

Storage:
Store in a Flammable Liquid (Class 3) store at ambient temperature. Keep containers tightly closed when not using product. Store in an area that is cool and dry and away from sources of heat, sparks, sources of ignition or combustibles. Store away from oxidising materials, peroxides, aerosols, silica gel, flammables, corrosives, amines, strong acids and all other flammable products.

8. Exposure Controls/Personal Protection

Exposure Controls: No exposure standards have been established for this material by NOHSC.

Xylene :	[TWA]	80ppm	350mg/m3
	[STEL]	150ppm	655mg/m3
Solvent Naphtha Light Aromatic:	[TWA]	19ppm	100mg/m3

TWA (Time weighted average): The average airborne concentration of a particular substance when calculated over an 8 hour working day, 5 day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period that should not be exceeded at any time during an 8 hour day.

Biological Limit: No biological limit allocated

Ventilation Requirements:
Provide sufficient ventilation to keep airborne levels below the exposure limits.

Respiratory Protection:
Avoid breathing vapours. An approved mist respirator with organic vapour filters must be used. Reference should be made to AS/NZS 1715 and AS/NZS 1716 Use and Maintenance of Respiratory Protective Devices for individual circumstances.

Eye Protection:
Eye contact must be avoided. Safety goggles with side shield or a face visor must be worn.

Skin Protection:
Skin contact must be avoided and good personal hygiene practises observed. Protective clothing including impervious chemical nitrile gloves must be worn. Care must be taken while removing gloves and other skin protective equipment to avoid ALL skin contact.

9. Physical and Chemical Properties

Appearance:	Clear liquid
Specific Gravity:	0.97 @ 20 degrees Celsius
Solubility in Water:	Insoluble
Vapour Density:	3.7 (Xylene)
Vapour Pressure:	5.2 kPa @ 38 degrees Celsius (Xylene)
Odour:	Aromatic solvent odour
Flash Point:	30 degrees Celsius (Flammable Liquid)
Flammable Limits – Lower:	1.1% (Xylene)
Flammable Limits – Upper:	7.7% (Xylene)

10. Stability and Reactivity

Stability:	Products of this type are stable and unlikely to react in a hazardous manner under normal conditions.
Incompatibility:	Oxidising Agents, Strong Acids, Peroxides, Amines, Halogens

Combustion Products:	Toxic fumes of CO2, and other pyrolysis products typical of burning organic material may be evolved on burning or exposure to heat.
Conditions To Avoid:	Heat, flames, ignition source, extremes of temperature, direct sunlight, and incompatibles.

11. Toxicological Data

Specific toxicology information is not available.

Solvent Naphtha (petroleum), Light Aromatic:
Information given is based on product testing, and/or similar products, and/or/components.

Acute Toxicity:
Oral LD50 (rat): > 2000 mg/kg.
Aspiration into the lungs may cause chemical pneumonitis, which can be fatal.

Dermal LD50 (rat): > 2000 mg/kg.
Inhalation LD50 (rat): > near saturated vapour concentration / 4 hrs.

High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.

Eyes:
Can cause severe irritation, redness, tearing, and blurred vision. Can cause irreversible damage on prolonged contact.

Ingestion:
Can cause gastro-intestinal irritation, nausea, vomiting, and diarrhoea. May cause lung damage. If material enters lungs, symptoms may include coughing, choking, difficulty in breathing, shortness of breath and/or fever

Inhalation:
Breathing in vapours and mists may cause irritation to the respiratory system. Breathing in vapours may result in headaches, dizziness, drowsiness and possible nausea. Breathing in high concentrations of vapours may cause loss of coordination, impaired judgement and if exposure is prolonged, unconsciousness.

Skin:
Prolonged or repeated contact may result in itching, defatting, dermatitis or more serious irreversible skin disorders.

Chronic Effects:
Prolonged or repeated exposure to Xylene may cause renal impairment and adverse effects on the liver and central nervous system. Aspiration into the lungs may cause chemical pneumonitis, which can be fatal.

12. Ecological Information

No environmental impact information is available for this product, however for:

Solvent Naphtha (petroleum), Light Aromatic:

Ecotoxicity:

Fish: Toxic: 1 < LC/EC/IC50 <= 10 mg/l
Aquatic Invertebrates: Toxic: 1 < LC/EC/IC50 <= 10 mg/l
Algae: Toxic: 1 < LC/EC/IC50 <= 10 mg/l

Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

Mobility:
Adsorbs to soil and has low mobility. Floats on water.

Persistence / Degradability:
Expected to be readily biodegradable.
Oxidises rapidly by photo-chemical reactions in air.

Bio-accumulation:
Has the potential to bio accumulate.
Avoid contaminating waterways, drains or sewers.

13. Disposal Considerations

Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations.
Dispose of product and container responsibly and carefully.
Containers, even those that have been emptied can contain explosive vapours. Do not cut, weld, grind or perform similar operations on or near containers.
Do not dispose of near waterways, down drains or into soil.

14. Transport Information

Classified as hazardous for transport (ADG, UN, IATA/ICAO)
Dangerous Goods Class 3 Flammable
UN-Number: 1866
Packaging group: III
Description of goods: 1866 RESIN SOLUTION (Contains Xylene)
HAZCHEM: 3[Y]

15. Regulatory Information

Australian Classifications:

UN Number:	1866
HAZCHEM Code:	3[Y]
Dangerous Goods Class	Flammable Class 3
Packaging Group:	III
Proper shipping name:	1866 RESIN SOLUTION (Contains Xylene)

EC Labelling:

Risk Phrases:
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16. Other Information

This data sheet and the health, safety and environmental information it contains is considered to be accurate as of the date specified. However no warranty or representation, expressed or implied is made as to the accuracy or completeness of the data and the information in this data sheet.

Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the users obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. Oncrete shall not be responsible for any damage of injury resulting from abnormal use of this material, from any failure to adhere to recommendations or from any hazards inherent in the nature of the material.