

## Material Safety Data Sheet

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### 1. Product and Company Identification

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**Product Name:** RP120  
**Trade Name:** RP120  
**Recommended Use:** Penetrating Concrete Sealer  
**Revision Date:** 21/04/2013  
**Company Name:** On-Crete Australia Pty Ltd  
**Address:** Unit 4/489 Scottsdale Drive,  
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

Non Hazardous according to the criteria of NOHSC  
Classified as a Combustible Liquid C1, AS 1940-2004

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### 2. Composition/Information on Ingredients

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Ingredients considered hazardous according to the criteria of Safe Work Australia:

Chemical Name	CAS #	Proportion	EU Class
Triethoxy(2,4,4-trimethylpentyl)silane	[35435-21-3]	<10%	R10

Ingredients determined not to be hazardous to 100%

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### 3. Hazards Identification

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#### Other Hazards

Product hydrolyses, producing ethanol (CAS no. 64-17-5). Ethanol is highly flammable.

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### 4. First Aid Measures

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#### First aid procedures

##### Eye contact

Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention if irritation develops or persists.

##### Skin contact

Immediately flush with water. Wash with soap and water. Obtain medical attention if irritation persists. Remove and wash contaminated clothing before re-use.

##### Inhalation

If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.

**Ingestion**

Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

**General advice**

Keep away from sources of ignition. No smoking. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children

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**5. Fire-Fighting Measures**

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**Extinguishing media****Suitable extinguishing media**

Water mist , extinguishing powder , alcohol-resistant foam , carbon dioxide , sand .  
Extinguishing media which must not be used for safety reasons: water spray , water jet .

**Special hazards arising from the substance or mixture**

Hazardous decomposition products: alcohols , nitrous gases . Do not allow extinguishing water to enter sewerage, the soil or inshore waters.

**Advice for firefighters****Special protective equipment for fire fighting:**

Use respiratory protection independent of recirculated air.

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**6. Accidental Release Measures**

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**Personal precautions**

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

**Environmental precautions**

Do not discharge into lakes, streams, ponds or public waters.

**Steps to be taken if material is released or spilled**

Wear appropriate protective clothing. Eliminate all ignition sources. Restrict access to contaminated area. Stop spill at source if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Dike to prevent spreading. Collect free liquid into a recovery vessel. Absorb remainder with sand or clay or other non-reactive material 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.

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**7. Handling and Storage**

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**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 formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction,

respiratory protection). Ensure adequate ventilation. Spilled substance increases risk of slipping.

**Storage:**

Store in a cool, dry place out of reach of children. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from oxidising agents, and incompatible materials. Incompatible with unlined metal containers. Keep away from heat, open flames or other sources of ignition. Product may release ethanol. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water. **Minimum temperature allowed during storage and transportation: 0 °C. Maximum Do not allow this material to freeze. temperature allowed during storage and transportation: 40 °C**

**Other Precautions:**

Do not pressurise, cut, weld, solder, drill, grind or expose containers to heat, flames, sparks or other potential sources of ignition.

Do not attempt to refill or clean containers since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

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**8. Exposure Controls/Personal Protection**

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**Exposure Controls:** In absence of standards it is recommended that the time weighted average concentration TLV/TWA for this product be determined at 5 mg/m<sup>3</sup> for an oil mist. This defines the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short-term exposure limit TLV/STEL for this product should be determined at 10mg/m<sup>3</sup> for an oil mist, which is the maximum allowable exposure concentration at any time.

**Biological Limit:** No biological limit allocated

**Ventilation Requirements:**

Good industrial hygiene practise dictates that indoor work areas should be isolated and provided with adequate local exhaust ventilation, if risk of overexposure occurs. Ventilate via mechanical methods (general or local exhaust) to maintain exposure below 5mg/m<sup>3</sup> as per exposure control limits.

**Eye Protection:**

Eye contact must be avoided. If accidental eye contact is possible then wear safety goggles or a face visor with side shields.

**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 skin contact.

**Respiratory Protection:**

DO NOT breathe vapours. If mist is generated during application process, an approved mist respirator with organic vapour filters must be used if ventilation requirements cannot be maintained. Reference should be made to AS/NZS 1715 and AS/NZS 1716 Use and Maintenance of Respiratory Protective Devices for individual circumstances.

**Personal Hygiene:**

Minimize breathing vapour or mist. Avoid prolonged or repeated contact with

skin. Remove contaminated clothing; launder or dry-clean before re-use. Remove contaminated shoes and thoroughly clean and dry before re-use. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water. DO NOT Smoke eat or drink while using or handling this product.

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## 9. Physical and Chemical Properties

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### Information on basic physical and chemical properties

#### General information:

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#### General information:

Physical state / form.....: liquid  
 Colour .....: white  
 Odour .....: slight

### Important information about the protection of health, safety and the environment:

#### Property: Value: Method:

Melting point / melting range .....: -1 °C  
 Boiling point / boiling range .....: 100 °C  
 Flash point.....: 70 °C (EN 22719)  
 Sustained combustibility.....: > 100 °C (ISO 9038)  
 Ignition temperature .....: 395 °C  
 Lower explosion limit (LEL) .....: no data available  
 Upper explosion limit (UEL).....: no data available  
 Vapour pressure.....: 23 hPa at 20 °C  
 Density .....: 0.95 g/cm<sup>3</sup>  
 Water solubility / miscibility.....: completely miscible  
 pH-Value .....: approx. 8  
 Viscosity (dynamic) .....: approx. 12 mPa.s at 25 °C

#### Other information

Hydrolytic decomposition occurs. Explosion limits for released ethanol: 3.5 - 15%(V).

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## 10. Stability and Reactivity

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<b>Stability:</b>	Products of this type are stable under recommended storage conditions and are unlikely to react in a hazardous manner under normal conditions.
<b>Incompatibility:</b>	Strong oxidising agents. Acids. Alkalis Extreme heat.
<b>Hazardous Decomposition Products:</b>	May include and are not limited to: Oxides of carbon.
<b>Hazardous Polymerisation:</b>	Reaction causes the formation of ethanol
<b>Conditions to avoid:</b>	Heat, open flames, static discharge, sparks and other ignition sources. Unlined metal containers. Do not mix with other chemicals.

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## 11. Toxicological Data

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### Information on toxicological effects

#### Acute toxicity

#### Assessment:

Inhalable aerosols containing aminofunctional polysiloxanes may cause harmful effects in the lung in animal experiments. Due to the large number of influencing parameters (e.g. amine

function, degree of substitution, viscosity, composition) an estimation of the toxicological effect on the lung is not possible for untested products of this category. In such cases exposure to inhalable aerosols must be prevented by adequate technical measures.

**Acute toxicity estimate (ATE):**

ATEmix (oral): > 2000 mg/kg

**Skin corrosion/irritation**

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**Serious eye damage / eye irritation**

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**Respiratory or skin sensitization**

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**Germ cell mutagenicity**

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**Carcinogenicity**

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**Reproductive toxicity**

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**Specific target organ toxicity (single exposure)**

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**Specific target organ toxicity (repeated exposure)**

**Assessment:** For this endpoint no toxicological test data is available for the whole product.

**Aspiration hazard**

**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**Further toxicological information**

Product(s) of hydrolysis: According to literature, ethanol (67-17-5) irritates the mucous membranes, slightly irritates the skin, decreases the skin, is narcotic and may cause liver damage.

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## 12. Ecological Information

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**Toxicity**

**Assessment:**

According to current knowledge adverse effects on water purification plants are not expected.

**Persistence and degradability**

**Assessment:**

Product(s) of hydrolysis: ethanol and silanol- and/or siloxanol-compounds. Elimination by adsorption to activated sludge. Polymer components: Not readily biodegradable. The hydrolysis product (Ethanol) is readily biologically degradable.

**Bioaccumulative potential**

**Assessment:**

Bioaccumulation is not expected to occur.

**Mobility in soil****Assessment:**

Silicone content: Absorbed by floating particles. Separation by sedimentation.

**Other adverse effects: Non known**

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**13. Disposal Considerations**

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Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations.

Incineration may be carried out under controlled conditions provided that local regulations for emissions are met.

Dispose of product and container responsibly and carefully.

Do not dispose of near waterways, down drains or into soil.

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**14. Transport Information**

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Classified as a Combustible Liquid C1, AS 1940-2004

**ADG 7 Classifications:****ROAD/RAIL/SEA/AIR**

UN Number:	N/A
Proper Name:	N/A
DG Class:	N/A
Subsidiary Risk:	N/A
Packaging Group:	N/A
HAZCHEM Code:	N/A
Special Provisions:	N/A
Packaging Method:	N/A

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**15. Regulatory Information**

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**Australian Classifications:**

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**Labelling:**

S2 Keep out of the reach of children  
S23 Do not breathe vapour  
S24/25 Avoid contact with skin and eyes  
S28 Wash hands and skin thoroughly after handling  
S36/37 Wear suitable protective clothing and gloves  
S61 Avoid release to the environment  
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show container or label

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**16. Other Information**

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**References:** Supplier

MSDS

<http://hsis.ascc.gov.au/>

RTECS

**Compiled by:**

Oncrete

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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. The 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.

... END OF MSDS ...