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# VIPAC PLUMBING PRODUCTS LABORATORY

279 Normanby Road, Port Melbourne VIC 3207. Phone: (+61 3) 9647 9700

<b>Client</b>	Bostik	<b>Report No</b>	30P-13-0083-TRP-356000-0-40804041
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## TEST REPORT

ITEM TESTED: Type P Solvent Cement and priming fluid

TESTED FOR: Bostik New Zealand  
19 Eastern Hutt Road  
Wingate 5019  
New Zealand

TESTED TO: Clauses 7.2, 8.2, 8.3.1 of AS/NZS 3879:2011

PRODUCT: Bostik Type P Solvent Cement and priming fluid

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PREPARED BY

  
Mr. Jason Chan  
Project Engineer

Date 01-12-2014

REVIEWED BY

  
Mr. Russel Dower  
Approved Signatory

Date 01-12-2014

### 1. DOCUMENT CONTROL

The following details pertain to test reports with document number 30P-13-0083-TRP-356000-0-40804041

Issue Date	Revision No.	Revision Description
01-12-2014	00	Initial Issue

### 2. INTRODUCTION

The VIPAC Plumbing Products Laboratory tested One (1) Type P Solvent Cement and Priming Fluid to AS/NZS 3879:2011. The client has stated that the product is for PVC-U pipes and fittings, and the samples were selected and supplied by Bostik New Zealand for testing.

### 3. APPLICABLE DOCUMENTS

The tests and data analysis were carried out in accordance with the following standards.

AS/NZS 3879:2011	Solvent cements and priming fluids for PVC (PVC-U and PVC-M) and ABS and ASA pipes and fittings
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Commercial-In-Confidence

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**4. TEST SAMPLE DESCRIPTION**

The specimen is designated in this report as follows:

Product Code	Description
40804041	Type P PVC solvent cement, tested with priming fluid 40804056



Bostik Type P Solvent Cement 40804041 - Clear



Bostik Type P Priming Fluid 40804056 - Red

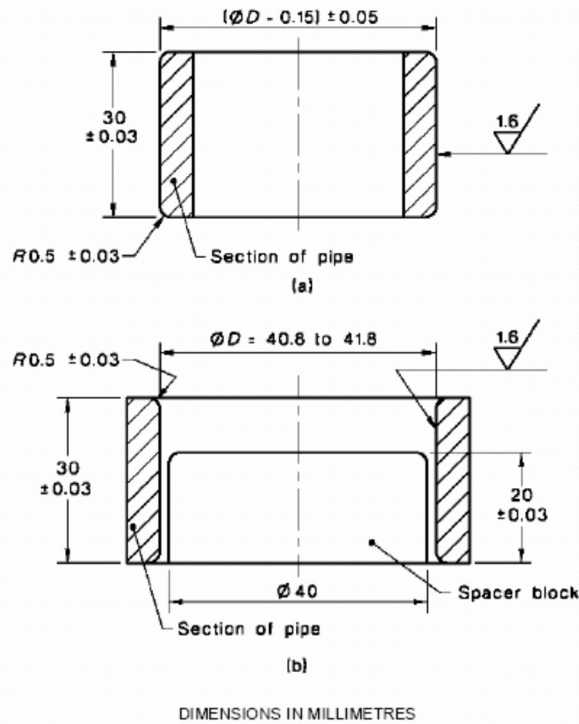
**5. PERFORMANCE**

**Clause 7.2 of AS/NZS 3879:2011 Effect on Water – please refer to Appendix B for AS/NZS 4020 test report**

**Clause 8.2 of AS/NZS 3879:2011- Rate of strength development (Shear Stress)**

When tested in accordance with Appendix B, the solvent cements are tested for their ability to withstand shear stress. Test pieces of given dimensions are formed by machining lengths of pipe DN40 and DN32 Class 18 PVC-U. The shear strength of a joint, made with these pipes and bonded with the solvent cements under examination, are measured after specified curing times i.e. 20, and 90min and 1, 4, 10, 30 and 60 days, respectively. Five test specimens are prepared for each reference drying time.

The test specimens are cut from accurately machined pieces of pipe, one corresponding to a socket (DN40) with an internal diameter of  $41.3 \pm 0.5$  mm and the other to a spigot (DN32) with an external diameter 0.1 to 0.2 mm less than the internal diameter of the socket piece. The length of the socket and spigot shall be 30 mm  $\pm 0.03$  mm. The external surface of the spigot and socket are a machined surface equal to or better than a mean surface roughness of Ra 1.6 mm in accordance with AS 2382 (BS 2634 in NZ).



The socket and spigot are joined with the appropriate solvent cement under test and the surfaces are pre-cleaned with ethanol (technical grade). The 5 test specimens at the relevant drying time are placed between the platens of a compression-testing machine and loaded at a rate of 5mm/min and the value required to break the solvent cement bond is recorded. The shear stress of each 5 fractures at the respective drying time is determined and the lowest two values are ignored. By plotting the appropriate reference curve on a semi log plot that is given in Appendix B of AS/NZS3879, the results from the test specimens are compared against this curve. All values of shear stress obtained from the test specimens shall be greater than the values given by the reference curve. The following results have been obtained for each 5 samples for each curing time and respective solvent cement. The mean diameter of 41.3mm of the tolerances for the socket and spigot given in Appendix B has been used to calculate the contact area of the joint and assuming a 10mm insertion length.

Sample	Requirement	Result	Conformity to Clause 8.2 of AS/NZS 3879:2011
40804041	With reference to Appendix B of AS3879: 2011, the shear stress on the joint shall at all times be greater than the value taken from the appropriate reference curve. A graph of these results is provided in the appendix of this report	The shear stress test results were above the reference curve**	<b>Conforms</b>

\*\*Note – The graph detailing the results is provided in Appendix A of this report.

**Clause 8.3.1 of AS/NZS 3879:2011 Pressure joints (Type P and G)**

The joint shall withstand (without any leakage, weeping or cracking) a hydrostatic pressure test in accordance with Appendix C for 1000 h, to a pressure specified in Table 1.

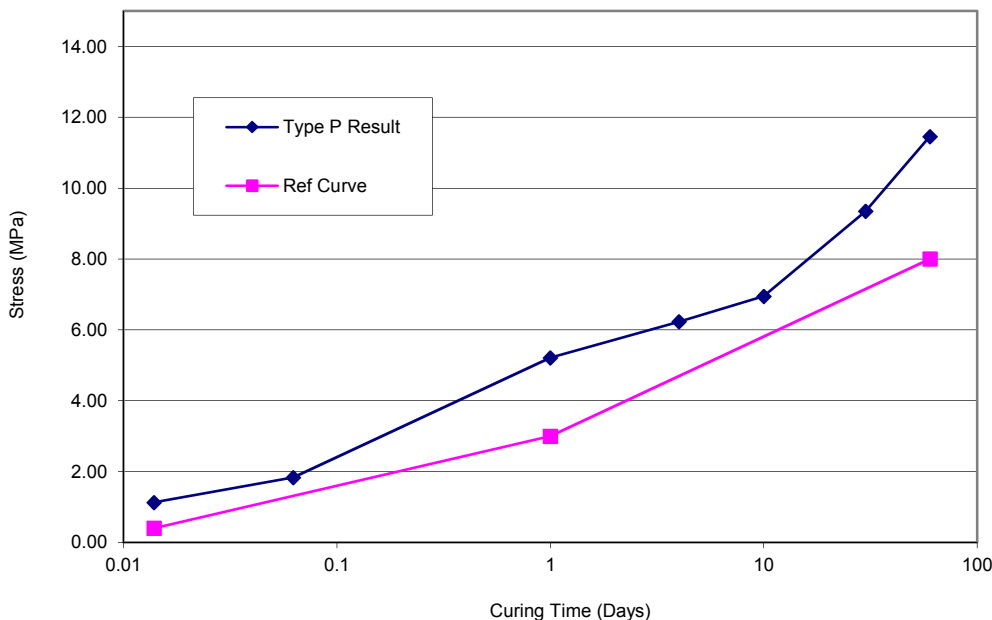
**TABLE 1  
TEST PRESSURE FOR TYPE P  
JOINT STRENGTH TEST**

Material	Test pressure MPa
PVC-U	4.5
PVC-M	3.0
ABS	3.5

Sample	Requirement	Result	Conformity to Clause 8.3.1 of AS/NZS 3879:2011
40804041	When the joints are tested in accordance with Appendix C for 1000 h to a test pressure of 4.5 MPa, there shall be no leakage, weeping or cracking.	The joint showed no signs of weeping or cracking	<b>Conforms</b>

**Appendix A – Shear Stress Test**

Bostik Type P Solvent Cement - Shear Stress Test



**Appendix B – AS/NZS 4020**

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 Adelaide SA 5001      Tarnanyangga      Fax : 1300 883 171      Email : awqc@awater.com.au  
 Adelaide SA 5000



**FINAL REPORT**

Report ID : 147342

**Report Information**

**Submitting Organisation :** 00109049 : VIPAC Engineers & Scientists Limited  
**Account :** 130044 : Vipac Engineers & Scientists Limited  
**AWQC Reference :** 130044-2014-CSR-10 : Prod Test: PVC Pipe Cement 1  
**Project Reference :** PT-2428  
**Product Designation :** 40804041 - PVC Pipe Cement (Type P)  
**Composition of Product :** See attachment for further information.  
**Product Manufacturer :** Bostik New Zealand Limited, Eastern Hutt Road, Wingate, Lower Hutt, NEW ZEALAND.  
**Use of Product :** In-Line/PVC Pipe Cement Adhesive.  
**Sample Selection:** As provided by the submitting organisation.  
**Testing Requested :** **AS/NZS 4020:2005 TESTING OF PRODUCTS FOR USE IN CONTACT WITH DRINKING WATER**  
**Product Type :** Composite  
**Samples :** Samples were prepared and controlled as described in Appendix A of AS/NZS 4020: 2005  
**Extracts :** Extracts were prepared as described in Appendix C, D, E, F, G, H.  
**Project Completion Date :** 14-Nov-2014  
**Project Comment :** The results presented herein demonstrate compliance of 40804041 - PVC Pipe Cement (Type P) to AS/NZS 4020:2005 when exposed at area to volume ratios up to 3000 mm<sup>2</sup>/L at 20°C ± 2°C.

PLEASE NOTE THAT THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL

THE RESULTS STATED IN THIS REPORT RELATE TO THE SAMPLE OF THE PRODUCT SUBMITTED FOR TESTING. ANY CHANGES IN THE MATERIAL FORMULATION, PROCESS OF MANUFACTURE, THE METHOD OF APPLICATION, OR THE SURFACE AREA-TO-VOLUME RATIO IN THE END USE, COULD AFFECT THE SUITABILITY OF THE PRODUCT FOR USE IN CONTACT WITH DRINKING WATER

Michael Glasson  
 APPROVED SIGNATORY



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**Summary of Results**

APPENDIX	RESULTS
C – Taste of Water Extract	Passed at an exposure of 3000 mm2 per Litre.
D – Appearance of Water Extract	Passed at an exposure of 3000 mm2 per Litre.
E – Growth of Aquatic Micro-organisms	Passed at an exposure of 3000 mm2 per Litre.
F – Cytotoxic Activity of Water Extract	Passed at an exposure of 3000 mm2 per Litre.
G – Mutagenic Activity of Water Extract	Passed at an exposure of 3000 mm2 per Litre.
H – Extraction of Metals	Passed at an exposure of 3000 mm2 per Litre.

**Test Methods**

Test(s) in Appendix	AWQC Test Method	Reference Method
C	T0320-01	AS/NZS 4020:2005
D	TO029-01 & TO018-01	APHA 2130b
E	TO014-03	APHA 4500 O C
F	TM-001	AS/NZS 4020:2005
G	TM-002	AS/NZS 4020:2005
H	TIC-006	EPA 200.8

Summary Comment : Not applicable.



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**CLAUSE 6.2 Taste of Water Extract**

**Sample Description** The sample was applied to a single glass panel with dimensions 50 mm x 60 mm providing an approximate surface area of 3000 mm<sup>2</sup> per Litre. Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.

**Extraction Temperature** 20°C ± 2°C.

**Test Method** Taste of Water Extract (Appendix C)

**Test Information**

**Scaling Factor** Not applied.

**Results** Not detected.

**Evaluation** The product passed the requirements of clause 6.2 when tested at an exposure of 3000 mm<sup>2</sup> per Litre.

**Number of Samples** 2.

**Test Comment** Not applicable.

Peter Christopoulos  
APPROVED SIGNATORY



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**CLAUSE 6.3      Appearance of Water Extract**

**Sample Description**      The sample was applied to a single glass panel with dimensions 50 mm x 60 mm providing an approximate surface area of 3000 mm<sup>2</sup> per Litre. Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.

**Extraction Temperature**      20°C ± 2°C.

**Test Method**      Appearance of Water Extract (Appendix D)

**Scaling Factor**      Not applied.

**Results**

	<u>Test (- Blank)</u>	<u>Maximum Allowed</u>	<u>Units</u>
Colour	<1	5	HU
Turbidity	0.2	0.5	NTU

**Evaluation**      The product passed the requirements of clause 6.3 when tested at an exposure of 3000 mm<sup>2</sup> per Litre.

**Number of Samples**      1.

**Test Comment**      Not applicable.

*Andrew Paul Ford*

Andrew Ford  
 APPROVED SIGNATORY



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Report ID : 147342

**CLAUSE 6.4 Growth of Aquatic Micro-organisms**

**Sample Description** The sample was applied to a single glass panel with dimensions 50 mm x 60 mm providing an approximate surface area of 3000 mm<sup>2</sup> per Litre. Extracts were prepared using 1000 mL volumes of test water.

**Test Method** Growth of Aquatic Micro-organisms (Appendix E)

**Inoculum** The volume of the inoculum was 100 mL

**Scaling Factor** Not applied.

<b>Results</b>	Mean Dissolved Oxygen	Control	7.5 mg/L
	Mean Dissolved Oxygen Difference	Positive Reference	6.1 mg/L
		Negative Reference	<0.1 mg/L
		Test	0.20 mg/L

**Evaluation** The product passed the requirements of clause 6.4 when tested at an exposure of 3000 mm<sup>2</sup> per Litre.

**Number of Samples** 1.

**Test Comment** Not applicable.

Thuy Diep  
APPROVED SIGNATORY



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**CLAUSE 6.5 Cytotoxic Activity of Water Extract**

**Sample Description** The sample was applied to a single glass panel with dimensions 50 mm x 60 mm providing an approximate surface area of 3000 mm<sup>2</sup> per Litre. Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.

**Extraction Temperature** 20°C ± 2°C.

**Test Method** Cytotoxic Activity of Water Extract (Appendix F)

**Scaling Factor** Not applied.

**Results** Non-cytotoxic.

**Evaluation** The product passed the requirements of clause 6.5 when tested at an exposure of 3000 mm<sup>2</sup> per Litre.

**Number of Samples** 1.

**Test Comment** The test extracts and blank extracts were used to prepare nutrient growth medium and subsequently used to grow a cell line (ATCC Number CCL 81) in the analysis. In addition zinc sulphate (0.4 mmol) was used for the positive control in the analysis.

Brendon King  
APPROVED SIGNATORY



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Report ID : 147342

**CLAUSE 6.6 Mutagenic Activity of Water Extract**

**Sample Description** The sample was applied to a single glass panel with dimensions 50 mm x 60 mm providing an approximate surface area of 3000 mm<sup>2</sup> per Litre. Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.

**Extraction Temperature** 20°C ± 2°C.

**Test Method** Mutagenic Activity of Water Extract (Appendix G)

**Scaling Factor** Not applied.

**Results**

Bacteria Strain	Number of Revertants per Plate				
	S9	Blank	Sample Extract	Positive Controls	
<i>Salmonella typhimurium</i> TA98	-	24, 21, 14	22, 17, 26	2278, 2006, 1830	<u>NPD</u> (20µg)
Mean ± Standard deviation		19.7 ± 5.1	21.7 ± 4.5	2038.0 ± 225.7	
	+	28, 26, 32	30, 30, 35	2199, 2346, 2455	<u>2-AF</u> (20µg)
Mean ± Standard deviation		28.7 ± 3.1	31.7 ± 2.9	2333.3 ± 128.5	
<i>Salmonella typhimurium</i> TA100	-	396, 410, 428	449, 430, 436	1230, 1231, 1166	<u>Azide</u> (1.0µg)
Mean ± Standard deviation		411.3 ± 16.0	438.3 ± 9.7	1209.0 ± 37.2	
	+	182, 164, 209	203, 183, 205	2179, 2354, 2642	<u>2-AF</u> (20µg)
Mean ± Standard deviation		185.0 ± 22.6	197.0 ± 12.2	2391.7 ± 233.8	
<i>Salmonella typhimurium</i> TA102	-	670, 636, 697	667, 698, 618	3122, 3112, 2992	<u>Mitomycin C</u> (10µg)
Mean ± Standard deviation		667.7 ± 30.6	661.0 ± 40.3	3075.3 ± 72.3	
	+	554, 626, 598	715, 607, 607	2740, 2713, 2456	
Mean ± Standard deviation		592.7 ± 36.3	643.0 ± 62.4	2636.3 ± 156.8	

**Comments** S9 was used as a metabolic activator. NPD (4-nitro-o-phenylenediamine), Azide, and Mitomycin C are specific positive controls for strains TA98, TA100 and TA102 respectively while 2 - AF (2-aminofluorene) when used in conjunction with S9 is a positive control for both TA98 and TA100

**Evaluation** The product passed the requirements of clause 6.6 when tested at an exposure of 3000 mm<sup>2</sup> per Litre.

**Number of Samples** 1.

**Test Comment** Not applicable.

Peter Christopoulos  
APPROVED SIGNATORY



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**CLAUSE 6.7 Extraction of Metals**

**Sample Description** The sample was applied to a single glass panel with dimensions 50 mm x 60 mm providing an approximate surface area of 3000 mm<sup>2</sup> per Litre. Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.

**Extraction Temperature** 20°C ± 2°C.

**Test Method** Extraction of Metals (Appendix H)

**Scaling Factor** Not applied.

**Method of Analysis** All methods used to determine concentrations of metals are based on those described in the 21st edition of Standard Methods for the Examination of Water and Wastewater published by the APHA, AWWA and WEF (2005). The methods have been adapted for the instrumentation in use at the Australian Water Quality Centre. Concentration of the metals described in Table 2 of the AS/NZS 4020:2005 are determined as follows:  
Antimony, Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium and Silver by Inductively Coupled Plasma Mass Spectrometry.

Results	Limit of Reporting mg/L	Blank mg/L	Test 1 mg/L	Test 2 mg/L	Max Allowed mg/L
<b>Final Extract</b>					
Antimony	0.0005	0.0006	<0.0005	<0.0005	0.003
Arsenic	0.0003	<0.0003	<0.0003	<0.0003	0.007
Barium	0.0005	<0.0005	<0.0005	<0.0005	0.7
Cadmium	0.0001	<0.0001	<0.0001	<0.0001	0.002
Chromium	0.0001	<0.0001	<0.0001	<0.0001	0.05
Copper	0.0001	<0.0001	0.0002	0.0002	2.0
Lead	0.0001	<0.0001	0.0003	0.0003	0.01
Mercury	0.00003	<0.00003	<0.00003	<0.00003	0.001
Molybdenum	0.0001	<0.0001	<0.0001	<0.0001	0.05
Nickel	0.0001	<0.0001	<0.0001	<0.0001	0.02
Selenium	0.0001	<0.0001	<0.0001	<0.0001	0.01
Silver	0.00003	<0.00003	<0.00003	<0.00003	0.1

**Evaluation** The product passed the requirements of clause 6.7 when tested at an exposure of 3000 mm<sup>2</sup> per Litre.

**Number of Samples** 1.

**Test Comment** Not applicable.

Dzung Bui  
APPROVED SIGNATORY



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**Australian Water Quality Centre**

**SAFETY DATA SHEET**

Report Number.....147372

Date.....13/11/2014

**1 IDENTIFICATION OF THE PRODUCT AND OF THE SUPPLIER**  
 Document reviewed by.....*Michael Grassman*

**Product Name** 40804041 – PVC Pipe Cement **Signature**.....*M. Grassman*

**Hazard Statement** Classified as Hazardous according to HSNO in New Zealand.  
 Classified as a Dangerous Good according to NZS5433:1999  
 Transport of Dangerous Goods on Land.

**Recommended Use** Adhesive – customer branded

**Supplier** Bostik New Zealand Limited  
**Street Address** 19 Eastern Hutt Road, Wingate, Lower Hutt, New Zealand  
**Telephone** ++64 4 567 5119  
**Facsimile** ++64 4 567 5412  
**Website** [www.bostik.co.nz](http://www.bostik.co.nz)

<b>Emergency Telephone Number</b>	<b>National Poisons Centre</b> <b>0800 POISON or 0800 764 766</b>	
<b>Emergency Response</b>	In New Zealand	<b>0800 CHEMCALL or 0800 243 622</b>
	In Australia	<b>1800 127 406</b>
	Globally	<b>++64 3 353 0199</b>

**Date of Preparation** 26/05/2014

**2 HAZARDS IDENTIFICATION**

Note: This product contains both volatile (solvents) and non-volatile components. During the normal use of this product, the hazardous volatile components evaporate and dissipate. The remaining non-volatile component is not hazardous.

**Hazard Statement** DANGER Highly flammable liquid and vapour.  
**Precautions** Keep away from ignition sources such as heat, sparks and open flames.  
 Do not handle until safety precautions have been read and understood.

- HSNO Classifications**
- 3.1B Highly flammable liquid and vapour
  - 6.3B Causes mild skin irritation
  - 6.4A Causes severe eye irritation
  - 6.9B May cause damage to organs through prolonged or repeated exposure

**3 COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS	Proportion
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**SAFETY DATA SHEET**

Tetrahydrofuran	109-99-9	Medium
Cyclohexanone	108-94-1	Medium
Non-hazardous materials	-	To 100%

High = >60%    Medium = 10% - 60%    Low = 1% - 10%    Very Low = < 1%

**4 FIRST AID MEASURES**

If poisoning occurs, contact the National Poison Centre (New Zealand 0800 POISON or 0800 764 766).

**First Aid**

**Inhalation** Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

**Skin Contact** Remove contaminated clothing and wash skin with warm soapy water. Do not scrub. If swelling, redness, blistering or irritation occurs, get medical assistance.

**Eye Contact** Immediately hold open and flood with water for at least 15 minutes. Eyelids to be held open. Get medical advice.

**Ingestion** Rinse mouth with water. Get medical advice immediately. Do NOT give anything to drink. Do NOT induce vomiting because of risk of aspiration. Never give anything by the mouth to an unconscious patient. Watch for toxic effects.

**Advice to Physician** Treat symptomatically. Effects may be delayed.

**5 FIRE FIGHTING MEASURES**

Clear fire area of all non-emergency personnel.

**Type of Hazard** Flammable Liquid

**HAZCHEM Code** 3[Y]E

**Fire Hazard Properties** Toxic gases / vapours / fumes of carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO). Solvent vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along ground to sources of ignition.

**Extinguishing Media** Water fog, foam, dry chemical, carbon dioxide

**Unsuitable Extinguishing Media** Do not use a water jet.

**Precautions for Firefighters** Wear full protective equipment, including self contained breathing apparatus.





**SAFETY DATA SHEET**

**Additional Advice** Keep adjacent containers cool by spraying with water.

**6 ACCIDENTAL RELEASE MEASURES**

**Small Spills** Extinguish all ignition sources. Avoid sparks, flames and heat. Avoid accidents and clean up immediately. Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (rag or paper towels). Collect and seal in properly labelled containers or drums for disposal or recycling.

**Large Spills** Extinguish all ignition sources. Avoid sparks, flames, heat and the build up of static electricity. Consider evacuation of area and/or site. Alert Emergency Services if required. Slippery when spilt. Avoid accidents and clean up immediately. Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours by wearing appropriate respirator. Contain spill to prevent run off into drains and waterways. Use absorbent (rags, soil, sand, or other inert material). Collect using spark-free shovels (ie. plastic) and seal in properly labelled containers or drums for disposal or recycling. See Disposal section of this SDS for further details.

**7 HANDLING AND STORAGE**

**Handling** Avoid breathing of or contact with material. Use only in well ventilated areas. Keep away from heat, sparks, open flames and any other sources of ignition. Static electricity must be avoided. Wear the appropriate personal protection equipment as specified in this SDS to prevent eye and skin contact. Wash thoroughly after handling.

**Storage** Store in a cool, dry, well ventilated place and out of direct sunlight. Keep away from heat, sparks, open flames and any other sources of ignition. Static electricity must be avoided. Store away from any incompatible materials as defined in Section 10 of this SDS. Keep containers closed when not in use. Check regularly for leaks. For unit sizes of 20 litres or more, store according to HSNO.

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Workplace Exposure Guidelines</b>		
<b>Substance</b>	<b>WES-TWA</b>	<b>WES-STEL</b>
Tetrahydrofuran	100 ppm	-
Cyclohexanone	25 ppm	-

**Engineering Controls** Use in a well ventilated area only. Vapour is heavier than air. Prevent concentration in hollows or sumps. Do NOT enter confined spaces





**SAFETY DATA SHEET**

where vapour may have collected. Keep containers in a well ventilated area. Explosion proof general and local exhaust ventilation system is required.

**Personal Protection Equipment** Avoid fume inhalation. Wear organic vapour respirator, especially if working in a poorly ventilated area. Selection of the correct cartridge is essential. Avoid skin contact. Avoid repeated and prolonged skin contact. Wear overalls or similar protective clothing. Wear solvent resistant gloves, and enclosed footwear. Avoid eye contact. Wear safety glasses, goggles or appropriate face shield.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Viscous clear liquid.			
<b>Odour</b>	Solvent			
<b>Flash Point °C</b>	-15			
<b>Boiling Point °C</b>	66 – 154			
<b>Lower &amp; Upper Flammability Limits %</b>	1.7 – 10.9			
<b>Auto-ignition Temperature °C</b>	321			
<b>Percent Volatile by weight</b>	80			
<b>Specific Gravity</b>	1.0			
<b>Solubility in Water</b>	Medium			
	High = >60%	Medium = 10% - 60%	Low = 1% - 10%	Very Low = < 1%

**10 STABILITY AND REACTIVITY**

**Stability of Substance** This material is stable when stored and used as directed.

**Conditions to Avoid** Avoid heat, sparks, flames and any other sources of ignition.

**Incompatible Materials** Strong oxidising agents.

**Hazardous Decomposition Products** Thermal decomposition is highly dependant on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

**Hazardous Reactions** Will react with strong oxidising agents.

**11 TOXICOLOGICAL INFORMATION**

Information given in this Safety Data Sheet is based on the data on the components and the toxicology of similar products.







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No adverse health effects are expected if the product is handled in accordance with this SDS and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

<b>Acute Oral Toxicity</b>	Not toxic, however swallowing can result in nausea and vomiting.
<b>Acute Dermal Toxicity</b>	Not toxic.
<b>Acute Inhalation Toxicity</b>	Not toxic, however product may be an irritant to mucous membranes and respiratory tract.
<b>Skin Irritation</b>	Expected to cause skin irritation.
<b>Eye Irritation</b>	Expected to cause eye irritation.
<b>Sensitisation (Respiratory &amp; Contact)</b>	Not expected to be a sensitiser.
<b>Carcinogenicity</b>	Not expected to be carcinogenic.
<b>Reproductive / Developmental Toxicity</b>	Not expected to cause damage to fertility or the unborn child.
<b>Mutagenicity</b>	Not expected to be mutagenic.
<b>Target Organ Systemic</b>	May cause damage to organs through prolonged or repeated exposure.

**12 ECOLOGICAL INFORMATION**

<b>Acute Toxicity Aquatic</b>	Not harmful to aquatic life.
<b>Soil</b>	Not ecotoxic in the soil environment.
<b>Terrestrial Vertebrate</b>	Not ecotoxic to terrestrial vertebrates.
<b>Terrestrial Invertebrate</b>	Not ecotoxic to terrestrial invertebrates.
<b>Persistence and degradability</b>	The solvent in this product is readily biodegradable. The remainder of the product is expected to biodegrade slowly.
<b>Bioaccumulation</b>	No data available on the product itself, however the individual components do not significantly bioaccumulate.
<b>Mobility</b>	Partially miscible with water. Similar density to water.

**13 DISPOSAL CONSIDERATIONS**

**Substance Disposal** Do not dispose of down drains or into local waterways. Recycle or recover whenever possible. Dispose of substance to a hazardous or special waste collection point or through a licensed





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contractor. Normally suitable for incineration by an approved agent.

**Container Disposal** Recycle if possible, or dispose of to a hazardous or special waste collection point.  
Beware: Empty flammable liquid drums present an explosion hazard if cut by flame or welding torch. Ensure drums are thoroughly cleaned and ventilated.

**Local Legislation** Disposal should be in accordance with Hazardous Substances (Disposal) Regulations 2001, and with any other applicable regional and national laws and regulations.

**14 TRANSPORT INFORMATION**

**Land Transport (NZS 5433:1999 Transport of Dangerous Goods on Land)**

**UN Number** 1133  
**Proper Shipping Name** ADHESIVES containing flammable liquid  
**DG Class** 3  
**Subsidiary Risk** Not applicable  
**Packing Group** II  
**HAZCHEM Code** 3[Y]E

**Marine Transport (IMDG)**

**Identification Number** 1133  
**Proper Shipping Name** ADHESIVES containing flammable liquid  
**Class / Division** 3  
**Packing Group** II  
**Marine Pollutant** No

**Air Transport (IATA)**

**UN Number** 1133  
**Proper Shipping Name** ADHESIVES containing flammable liquid  
**Class / Division** 3  
**Packing Group** II

**15 REGULATORY INFORMATION**

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

**Environmental Risk Management Authority (ERMA) Group Standard Number:**  
 Surface Coatings and Colourants (Flammable) Group Standard 2006  
 HSNO Approval Number HSR002667

**Hazardous Substances and New Organisms Act (HSNO):**  
 The following are trigger quantities for this substance by itself in a place.





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**Approved Handler Test Certificate** 250 litres, when in containers > 5 litres  
500 litres, when in containers ≤ 5 litres

**Tracking** Not applicable

**16 OTHER INFORMATION**

**SDS Revisions** Safety Data Sheets are updated at least every 5 years. Obtain the latest version by visiting [www.bostik.co.nz](http://www.bostik.co.nz).

A vertical bar in the margin indicates an amendment from the previous version.

**Reason for Issue** New

**SDS Distribution** The information in this document should be made available to all who may handle this product.

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use the product in the workplace. Since Bostik New Zealand Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS 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 Bostik New Zealand Limited.

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 available upon request.

**Key / Legend**

<b>SDS</b>	Safety Data Sheet
<b>HSNO</b>	Hazardous Substances and New Organisms Act 1996
<b>WES-TWA</b>	The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure.
<b>WES-STEL</b>	The 15 minute average exposure standard. This applies to any 15 minute period in a working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to WES-TWA; both the short-term and time-weighted average exposures apply.

**Disclaimer** This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

